2024 Annual Compliance Monitoring Report

Shell Harbor Island Terminal
2555, 1835, 1711 13th Avenue Southwest
Seattle, Washington

PlaNet Site ID: MIGUS357032
PlaNet Project ID: 86013
Consent Decree No.: 99-2-07176-0SEA

Shell International Petroleum

February 14, 2025

→ The Power of Commitment

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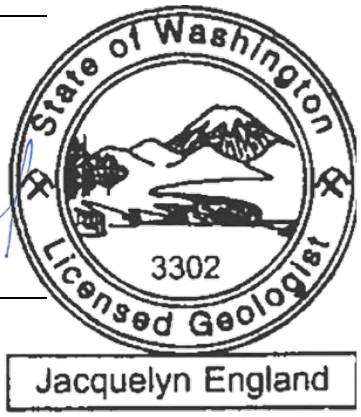
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1. Introduction

GHD Services Inc. (GHD) is submitting this *2024 Annual Compliance Monitoring Report* on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) for the Shell Distribution Terminal on Harbor Island in Seattle, Washington (Site, Figure 1). The Site is comprised of three parcels located at 2555, 1835, and 1711 13th Avenue Southwest, designated as the Main Tank Farm, North Tank Farm, and Shoreline Manifold Area, respectively (Figure 2). Three groundwater monitoring and cleanup areas are associated with the parcels:

– The TX-03 Area, encompassing the North Tank Farm and the northern portion of the Main Tank Farm.
– The SH-04 Area, overlapping the southeastern portion of the Main Tank Farm.
– The Shoreline Manifold Area.

Compliance monitoring activities described in this report are performed under the October 1998 Equilon Seattle Terminal Washington State Department of Ecology's (Ecology) Model Toxics Control Act Consent Decree No. 99-2-07176-0SEA (Consent Decree; Ecology, 1998b). The information presented herein is based on data collected during the monitoring period of January through December 2024.

1.1 Summary of Cleanup Actions

Cleanup actions were performed in compliance with the Consent Decree, which provides Site-specific cleanup levels for total petroleum hydrocarbons (TPH), lead, and arsenic in soils, and for TPH select metals, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and carcinogenic polycyclic aromatic hydrocarbons (cPAHs) in groundwater. The Site-specific cleanup levels applicable to this report are summarized in Table 1. The Site-specific soil cleanup levels are included in the summary of cleanup actions discussed below.

The primary cleanup action at the Site included excavation of near surface lead and arsenic impacted soil in areas throughout the Main Tank Farm, which was conducted from December 2003 through February 2004. Lead- and arsenic-impacted surface soils with concentrations above the soil cleanup levels of 1,000 milligrams per kilogram (mg/kg) and 32 mg/kg, respectively, were removed. In addition, a small area of lead-impacted soil near the oil-water separator in the Main Tank Farm was excavated in October 2001; however, some lead-impacted soils were left in-place due to structural constraints. A 3-inch cap was placed over the lead-impacted subsurface soil in the area around the oil-water separator.

Between November 2001 and October 2009, TPH-impacted surface and subsurface hotspots with concentrations greater than 10,000 mg/kg, the shoreline soil cleanup level, were removed from the Shoreline Manifold Area. Additional impacted soils with TPH concentrations greater than 20,000 mg/kg, the inland soil cleanup level, were removed near a former underground storage tank in October 2001, and in the Main Tank Farm in February 2004 and November 2007.

A free product and vapor extraction system was installed in the Shoreline Manifold Area in 1996. The vapor extraction system operated until August 2005 when it was shut down because the hydrocarbon recovery through vapor extraction had declined. Passive free product recovery occurred in the Shoreline Manifold Area at monitoring well MW-211 through 2010 and in monitoring wells MW-210 and MW-212 through 2011. Vacuum purging was conducted on a quarterly basis in monitoring wells MW-210 and MW-212 in 2012.

On September 10, 2013, less than three barrels of diesel product were released in the Shoreline Manifold Area during an "in line" inspection of the dock lines. Approximately 2.4 barrels of free-standing product were recovered immediately by vacuum truck and the use of sorbent pads. Additionally, approximately 8 to 10 cubic yards of soil were removed. Confirmation soil samples collected from the excavated area were below the shoreline soil cleanup level of 10,000 mg/kg. Field observations indicated that surface water and the stormwater system were not impacted by the release (URS, 2014). Pooled diesel product was observed surrounding monitoring well MW-212 following the release.

The product was removed using a vacuum truck and subsequent monitoring did not detect product. At the request of Ecology, sorbent socks were installed in monitoring wells MW-209, MW-210, and MW-212 in January 2014. In addition, monitoring wells MW-208, MW-210, MW-211, and MW-212 are monitored monthly for product.

In September 2016, RECON Environmental, Inc. (RECON) excavated and disposed of approximately 5.28 tons of visibly stained soils at the former Lubes Facility, located near the southwest corner of the Main Tank Farm and directly west of the Pump House. Confirmation soil samples were collected and the open piping at two small petroleum impacted areas were capped. The TPH concentrations in the confirmation soil samples were less than the inland soil cleanup level of 20,000 mg/kg (Ecology, 1998a; RECON, 2017). Upon receipt of these results, AECOM authorized RECON to backfill the excavations.

In November 2016, construction of the bio-sparging system commenced within the TX-03A Area (Figure 2). The City of Seattle (the City) halted the completion of the system in December 2016 due to a delay in the issuance of the Utility Major Permit and the Annual Permit. Prior to the work halt, AECOM oversaw the installation of the 37 bio sparging wells in the City Parking Lot and Main Tank Farm, and the installation of the system piping within the Main Tank Farm. System construction was completed in May 2017 and the system was started on May 25, 2017. The bio sparging system construction details were documented in the *Bio-Sparging System Installation* technical memorandum, submitted in the first quarter of 2018 (AECOM, 2018). The bio sparging system was shut down in December 2019 to evaluate for rebound and has remained off.

Between March and September of 2018, AECOM completed rehabilitation of the 24-inch mainline of the City's stormwater system located directly north of the Seattle Terminal's Main Tank Farm, per the terms of a Voluntary Compliance Agreement (VCA) between Shell and the City, dated April 2016 (AECOM, 2019a). Per the VCA, annual dry weather stormwater system sampling events were required for a period of 3 years. Sampling events were conducted in January and August of 2019, August 2020, and July 2021. All three dry weather sample event results indicated that the rehabilitation was successful (AECOM 2019b and 2020, and GHD, 2021c). An Acknowledgement of Completion for the requirements in the VCA was issued by the City on October 27, 2021.

On October 1, 2020, a gasoline release occurred from a failed pump inside the Pump House during tanker truck fueling operations. The Pump House is located south of the Main Tank Farm. Areas affected by the release included the Pump House interior, Manifold Pit East, and limited areas outside the Pump House on the ground surface at its northern and southern entryways. Following initial recovery of the release, additional excavation was completed, including soil excavation at the north and south ends of the Pump House where a total of 136.05 tons of impacted soil and 9,190 gallons of fuel and water were hauled off Site (Interim Action Report [GHD, 2021a]). In June of 2022, GHD installed three groundwater monitoring wells per the approved Well Installation Work Plan (GHD, 2021b); the results of the investigation are summarized in our *Revised Site Investigation Report* (GHD, 2022).

1.2 Summary of Compliance Monitoring Program

Compliance monitoring consists of product monitoring, groundwater level monitoring, and groundwater sampling as detailed in the Compliance Monitoring Plan (EMCON and LCI, 1999). The monitoring objectives have been categorized as confirmational, performance, and sentry:

– Performance monitoring is conducted to monitor the effectiveness of the cleanup actions. Performance monitoring consists of three components: product thickness and sheen monitoring, groundwater natural attenuation monitoring, and groundwater quality monitoring.
– Confirmational monitoring is conducted to confirm the long-term effectiveness of the cleanup action once performance and cleanup levels have been met. Confirmation product monitoring consists of monitoring product thickness and sheen.
– Sentry monitoring is conducted to provide early warnings of off-Site contaminant migrations. Semi-annual sentry groundwater quality monitoring is conducted simultaneously with groundwater performance monitoring.

Site-wide quarterly monitoring was conducted until 2006 in accordance with the Compliance Monitoring Plan. In 2006, the monitoring program was modified in accordance with proposed changes by RETEC (RETEC, 2006a;

RETEC, 2006b), and additional modifications in the monitoring program occurred in 2008 in accordance with email correspondence with Ecology (URS, 2008). The groundwater monitoring program established in 2008 is presented in black text in Table 2. Additional modifications to the compliance monitoring program between 2011 and 2022 are presented in red text in Table 2. The groundwater cleanup levels specified in the 1998 Consent Decree are presented in Table 1.

1.2.1 SH-04 Area

Compliance monitoring wells MW-05, MW-111, MW-112A, MW-104, and SH-04 are located along 13th Avenue Southwest and in the southeast corner of the Main Tank Farm, within the SH-04 Area of the Site (Figure 2). The compliance monitoring program for the SH-04 Area was modified between 2011 and 2015 as described below and presented in red text on Table 2.

– In 2001, additional semiannual samples were obtained from the above listed five monitoring wells to assess the dissolved groundwater plume (URS, 2012). Monitoring wells MW-305 and MW-306 were installed in the SH-04 Area in November 2011.
– In 2012 through 2014, quarterly groundwater samples were collected to assess the dissolved hydrocarbon plume in the SH-04 Area. Additionally, three joint groundwater sampling events were conducted in 2012 with the neighboring Kinder Morgan Terminal in the SH-04 Area.
– In 2014, benzene and gasoline concentrations within sentry well SH-04 were below the cleanup levels. Therefore, due to reductions of concentrations within the sentry well, URS removed groundwater monitoring at monitoring wells MW-305 and MW-306 from the monitoring program (URS, 2014).

The fifth EPA 5-Year review of the Harbor Island Superfund Site (EPA, 2020) noted that elevated contaminant concentrations have been observed in wells A-28R and MW-23, associated with the Kinder Morgan facility. These wells are located along the southwestern edge of the Kinder Morgan facility, near 13th Avenue Southwest. Surrounding wells, including Shell well MW-111, do not indicate an expanding plume, but the EPA noted that additional data are needed to determine a trend.

A coordinated gauging event of wells in the SH-04 area with wells at the Kinder Morgan facility was conducted on April 12, 2021. However, GHD was not able to generate a groundwater flow diagram because the shared well SH-04 is shown in a different location on the map generated for the Kinder Morgan facility from the location on our map. Since then, Arcadis U.S., Inc. has confirmed well locations, and a joint gauging and groundwater sampling event was conducted on April 18, 2022. Results are presented in GHD's *2023 Annual Compliance Monitoring Report* (GHD, 2024).

1.2.2 TX-03A Area

As indicated on Table 2, multiple compliance monitoring wells are in the TX-03A Area of the Site. This area includes the northern boundary of the Main Tank Farm and extends north to the northern boundary of the North Tank Farm (Figure 2). The compliance monitoring program within the TX-03A Area includes historical monitoring wells and additional monitoring wells that were installed within the TX-03A Area between 2011 and 2016 as part of the TX-03A Area investigation. Modifications since 2008 are presented in red text on Table 2.

To assess the dissolved hydrocarbon plume at the TX-03A Area, the following additional monitoring wells were installed within the TX-03A Area between 2011 and 2016:

– MW-301 through MW-304 in November 2011
– MW-307 through MW-310 in November 2012
– MW-311 and MW-312 in October 2014
– MW-313, MW-314, and MW-315 in July 2016

The monitoring wells installed in November 2011 through July 2016 were sampled at least semiannually since 2012.

1.3 Geology and Hydrogeology

The 405-acre Harbor Island was constructed during the early 1900s in an area consisting of intertidal wetlands at the mouth the Duwamish River. The island was created using sediments dredged to facilitate navigation in the Lower Duwamish River and West Waterway (KJC, 1990).

Soil underlying the Site consists of emplaced grade and dredge fill overlying native estuarine deposits (EMCON and LCI, 1999). The uppermost grade fill unit consists of coarse-grained fill varying in thickness from less than 1 foot to approximately 2 feet thick. The underlying dredge fill unit was created when estuarine deposits near the Site were dredged and used as fill. The contact between the dredge fill and native estuarine units is poorly defined due to similar properties of the two units. The dredge fill varies from approximately 8 to 20 feet in thickness at the Site. It consists of fine- to medium-grained sand with some gravel. Native estuarine deposits underlie the dredge fill at depths of approximately 9 to 21 feet below ground surface (bgs). These deposits are composed of primarily fine- to medium-grained sand with thin silt interbeds.

The shallow, unconfined groundwater aquifer consists of a thin lens of freshwater overlying brackish water. The groundwater table is 4 to 8 feet bgs, within the dredge fill. The water table within the North Tank Farm and Main Tank Farm areas are generally unaffected by tides; groundwater quality and elevations within the Shoreline Manifold Area are affected by tides.

The native estuarine deposits are fully saturated, and groundwater within this unit is unconfined. Groundwater quality and groundwater elevations within this unit are influenced by surrounding surface water bodies and associated tidal fluctuations. This shallow groundwater flows in a radial fashion to the north and to the south from a potentiometric high located within the Main Tank Farm area.

2. Groundwater Elevations and Flow

Monitoring wells at the Site are screened in either the shallow or deep depth intervals. The monitoring well screen intervals are presented on Table 2 and discussed below.

– All but two of the monitoring wells in the groundwater monitoring program are screened in the shallow depth interval (approximately 5 to 15 feet bgs)
– Monitoring wells MW-213 and MW-214 are screened in the deeper depth interval (approximately 30 to 40 feet bgs)

Groundwater elevation data for the monitoring period (January through December 2024) and historical groundwater elevation data are presented in Table 3. The groundwater elevation data are discussed in the following subsections for each area, as identified on Figure 2. Monitoring well gauging field logs, which include depth to groundwater and depth to product provided in Appendix A.

2.1 TX-03A Area (including the North Tank Farm)

The TX-03A Area is shown on Figure 2. The North Tank Farm has been incorporated into the TX-03A Area because it provides downgradient and cross gradient data for the TX-03A Area (Figures 3 through 6).

In accordance with the groundwater monitoring program, depth to groundwater was measured in North Tank Farm monitoring wells (MW-201 through MW-204 and MW-206A) and in additional TX-03A Area monitoring wells (MW-101, MW-102, MW-301 through MW-304, MW-307 through MW-315, TES-MW-1, and TX-03A) during the quarterly sampling events.

The range in groundwater elevations for each quarterly 2024 event is listed below:

– First Quarter 2024: 7.23 (MW-201) to 9.01 (MW-203) feet above mean sea level (AMSL)

– Second Quarter 2024: 6.00 (MW-201) to 7.58 (MW-101) feet AMSL
– Third Quarter 2024: 5.66 (MW-201) to 6.51 (MW-313) feet AMSL
– Fourth Quarter 2024: 6.08 (MW-202) to 7.85 (MW-102) feet AMSL

Localized groundwater elevation contour maps depicting the March, June, September, and December 2024 groundwater elevations for the shallow depth interval beneath the TX-03A Area are presented as Figures 3 through 6, respectively. Groundwater in the TX-03A Area flows generally northwest in quarter one, generally north in quarters two and three, and north to northeast in the fourth quarter.

2.2 SH-04 Area

In accordance with the groundwater monitoring program, depth to groundwater was measured semi-annually in wells MW-05, MW-104, MW-111, MW-112A, and SH-04 in June and December 2024.

The range in groundwater elevations for each semiannual 2024 event is listed below:

– June 2024: 5.54 (MW-05) to 7.37 (MW-104) feet AMSL
– December 2024: 5.81 (MW-05) to 7.49 (MW-104) feet AMSL

2.3 Shoreline Manifold Area

In accordance with the groundwater monitoring program, depth to groundwater was measured semiannually in wells MW-213 and MW-214 (June and December) and monthly from monitoring wells MW-208, MW-210, MW-211, and MW-212.

The range in groundwater elevations for each quarter in 2024 is listed below:

– First Quarter 2024: 6.80 (MW-212) to 8.51 (MW-211) feet AMSL
– Second Quarter 2024: 3.57 (MW-213) to 7.50 (MW-208) feet AMSL
– Third Quarter 2024: 5.51 (MW-212) to 6.68 (MW-208) feet AMSL
– Fourth Quarter 2024: 5.60 (MW-212) to 8.66 (MW-212) feet AMSL

2.4 Pump House Investigation Area

Following the 2020 Pump House area gasoline release and excavation, GHD installed three wells, MW-113, MW-114, and MW-115, to assess impact to groundwater in the area (*Revised Site Investigation Report*, GHD 2022). These three wells are monitored in the second and fourth quarters (Figure 7 and Figure 8).

The range in groundwater elevations for each quarter in 2024 is listed below:

– Second Quarter 2024: 7.29 (MW-113) to 7.61 (MW-114) feet AMSL
– Fourth Quarter 2024: 7.51 (MW-113) to 8.02 (MW-114) feet AMSL

Localized groundwater elevation contour maps depicting the June and December 2024 groundwater elevations for the shallow depth interval beneath the SH-04 area and Pump House area are presented as Figures 7 and 8, respectively. Groundwater flow direction is to the east and southeast.

3. General Compliance Results

This section presents the analytical results of the groundwater monitoring and performance product monitoring (in support of operation and maintenance). Field sampling data sheets, which include field parameter measurements and product measurement field forms, are provided in Appendix A. Laboratory data packages are provided in Appendix B.

Laboratory analytical data were assessed to ensure data quality and were deemed acceptable for their intended use with noted qualifiers. Data validation reports are provided in Appendix C.

3.1 Performance Product Monitoring

In accordance with the groundwater monitoring program (Table 2), depth to groundwater and thickness of free product was measured in the monitoring wells listed below:

– Shoreline Manifold Area: MW-208, MW-210, MW-211, and MW-212, monthly
– North Tank Farm: MW-204, quarterly

Performance product monitoring data are presented in Table 4. Absorbent socks are present for product recovery in monitoring wells MW-210 and MW-212 and are replaced monthly or as needed.

No measurable thickness of floating product was detected in monitoring wells MW-208, MW-211, or MW-212 during the 2024 events. No product was detected at well MW-210 in March, and May through December. The measurable thicknesses of product ranged from 0.23 feet in April to 0.61 feet in January at well MW-210.

3.2 Natural Attenuation Performance Criteria

In accordance with the groundwater monitoring program (Table 2), natural attenuation performance monitoring is conducted annually at 10 monitoring wells within the TX-03A Area. The results are presented in Table 5 along with the standard groundwater stabilization parameters, which are collected from monitoring wells quarterly after completion of purging and prior to collection of groundwater samples.

3.3 Analytical Results for the Groundwater Performance and Confirmational Monitoring

This section presents analytical results for the performance and compliance monitoring events conducted in 2024. Groundwater samples were collected during the fourth quarter of 2024 from the following monitoring wells in accordance with Table 2.

– Background well MW-206A
– Point of compliance (POC) wells MW-213 and MW-214
– Sentry wells MW-102, MW-104, MW-201, MW-204, MW-311 through MW-315, MW-05, MW-111, MW-112A, SH-04, MW-105, TX-04, and TX-06A
– General compliance wells MW-101, MW-301, MW-303, MW-309, and TES-MW-1
– Natural attenuation performance wells MW-202, MW-203, MW-302, MW-304, MW-307, MW-308, MW-310, MW-311, MW-312, and TX-03A

Monitoring wells at the Site were monitored in 2024 monthly, quarterly, semi-annually, or annually according to Table 2. Monitoring wells MW-311 and MW-312 are identified as both natural attenuation performance wells and sentry wells.

The 2024 and historical groundwater sample results are included on Tables 6 and 7 and are summarized in the following subsections. The gasoline and diesel results for 2024 are included on Figure 9, and the benzene results are included on Figure 10. Cleanup level exceedances are highlighted in red on Figures 9 and 10.

3.3.1 Background Monitoring Well Results

A groundwater sample was collected from background monitoring well MW-206A in December 2024. The background sample was analyzed for BTEX, TPH as gasoline range (TPHg), TPH as diesel range (TPHd), and TPH as oil-range (TPHo). The results are presented on Table 6.

TPHd and TPHo were detected at concentrations of 0.238 milligrams per liter (mg/L) and 0.639 mg/L, respectively, which are below the Site-specific cleanup levels. Other analytes were not detected above their applicable laboratory method reporting limits (MRLs)

3.3.2 POC Well Results

Groundwater samples were collected from POC wells MW-213 and MW-214 in June and December 2024. The groundwater samples from the POC wells were analyzed for BTEX, TPHg, TPHd, TPHo, and cPAHs. The results for the two monitoring wells are presented within Tables 6 and 7.

During the June 2024 event TPHg was detected at an estimated concentration (J-flagged) of 0.0946 mg/L (J) in the groundwater collected from monitoring well MW-213. TPHd and TPHo were detected in well MW-213 during the June 2024 event at concentrations of 0.288 mg/L and 0.349 mg/L, respectively. TPHg, TPHd, and TPHo were not detected above their respective laboratory MRLs in well MW-214 during the June 2024 event. During the December 2024 event, TPHd and TPHo were detected at concentrations of 0.332 mg/L and 0.420 mg/L in well MW-213, respectively. In well MW-214 TPHd was detected at a concentration of 0.165 J mg/L in December 2024 and TPHo was not detected above the laboratory MRL. Where detected, TPH concentrations are below respective Site-specific cleanup objectives. TPHg was not detected above laboratory MRLs in wells MW-213 and MW-214 during the December 2024 event. BTEX was not detected above laboratory MRLs in wells MW-213 and MW-214 during the June or December 2024 events.

During the June or December 2024 events, cPAHs were not detected above laboratory MRLs in wells MW-213 or MW-214. The cPAH toxic equivalent concentration has only exceeded the Site-specific cleanup level once in December 2023 in well MW-213 when J-flagged detections were reported. If 2025 sample results continue to be non-detect, we recommend discontinuing cPAH analysis.

3.3.3 Sentry Monitoring Results

Sentry wells include MW-05, MW-102, MW-104, MW-105, MW-111, MW-112A, MW-201, MW-204, MW-311 through MW-315, SH-04, TX-04, and TX-06A. The following subsections summarize the results in the sentry wells characterizing groundwater flowing from beneath the North and Main Tank Farms.

3.3.3.1 North Tank Farm (included in the TX-03A Area)

Monitoring wells MW-201 and MW-204 are representative sampling points for assessing the quality of groundwater flowing across the northern boundary of the North Tank Farm. The groundwater samples were analyzed for BTEX, TPHg, TPHd, and TPHo. The results for both wells are presented in Table 6.

No analytes were detected in sentry wells MW-201 and MW-204 at concentrations above the cleanup levels during 2024.

3.3.3.2 Main Tank Farm – Northern Boundary (included in the TX-03A Area)

Historically, monitoring well TX-03A was the representative sampling point for assessing the quality of groundwater flowing across the northern boundary of the Main Tank Farm. However, the investigation within the TX-03A has expanded with the installation of additional monitoring wells as discussed in Section 1.2.2.

Monitoring wells MW-102 and MW-311 through MW-315 are additional sentry wells used for characterization of the northern boundary of the Main Tank Farm. Groundwater samples were collected from MW-102 in December 2024, MW-314 in June and December, and from MW-311, MW-312, MW-313, and MW-315 in March, June, September, and December 2024. Monitoring well MW-314 was not accessible during the first and third quarter events due to a car parked on top of the well.

The groundwater samples from the six sentry wells were all analyzed for BTEX and TPHg, and the groundwater samples from MW-102, and MW-313 through MW-315 were also analyzed for TPHd and TPHo. Results are summarized in Table 6.

No analytes were detected above the cleanup levels at wells MW-102, MW-313, and MW-314.

Concentrations of TPHg exceeded the cleanup level of 1 mg/L in wells MW-311, MW-312, and MW-315 during all four quarters. The maximum detected concentrations in monitoring wells MW-311, MW-312, and MW-315 were all observed in samples collected during the June event with detections of 3.01 mg/L, 3.61 mg/L, and 4.09 mg/L, respectively. All benzene detections were below the cleanup level in 2024. Concentrations of toluene, ethylbenzene, total xylenes, TPHd, and TPHo were below laboratory MRLs and/or applicable cleanup levels in each well for all four quarters of 2024. TPHg exceedances are highlighted in red on Figures 9 and 10.

3.3.3.3 Main Tank Farm – Eastern and Western Boundaries

Monitoring wells TX-04 and TX-06A were designated as the sentry wells for the eastern and western boundaries of the Main Tank Farm. Groundwater samples were collected from these two monitoring wells in December 2024 and analyzed for BTEX, TPHg, TPHd, and TPHo.

No analytes were detected above the laboratory MRLs or cleanup levels at TX-04 and TX-06A (Table 6).

3.3.3.4 Main Tank Farm – Southern Boundary (includes the SH-04 Area)

SH-04 Area monitoring wells MW-05, MW-104, MW-111, MW-112A, and SH-04 as well as monitoring well MW-105, located to the west of the SH-04 Area, were designated as the sentry wells for the southern boundary of the Main Tank Farm.

– MW-05, MW-111, MW-112A, and SH-04 were sampled in June and December 2024 for BTEX, TPHg, TPHd, and TPHo.
– MW-104 was sampled in June and December 2024 for total lead, TPHg, TPHd, and TPHo.
– MW-105 was sampled in December 2024 for total lead, BTEX, TPHg, TPHd, and TPHo.

The results are presented in Table 6, and the cleanup level exceedances for these five sentry wells are as follows:

– TPHg concentrations exceeded the cleanup level of 1 mg/L in June and December at well MW-112A with a maximum detected concentration of 1.78 mg/L (Figure 9) and exceeded the cleanup level in June at MW-104 with a detected concentration of 1.20 mg/L.
– Lead was detected at a concentration of 0.00921 mg/L in MW-105 during the December 2024 event, which is above the Site-specific cleanup level of 0.0058 mg/L.

4. TX-03A Area Investigation

The TX-03A Area is shown on Figure 2. The TX-03A Area, which includes the North Tank Farm, was identified for additional evaluation in the third EPA 5-Year review of the Harbor Island Superfund Site (EPA, 2010), and active remediation was recommended in the fourth EPA 5-year review (EPA, 2015). This section summarizes the other activities conducted in the TX-03A Area during 2024 in addition to the compliance monitoring.

4.1 TX-03A Area Groundwater Flow

Localized groundwater elevation contour maps for the shallow depth interval beneath the TX-03A Area using the March, June, September, and December 2024 groundwater elevations are presented as Figures 3 through 6, respectively. Groundwater in the TX-03A Area flows generally northwest in quarter one, generally north in quarters two and three, and north to northeast in the fourth quarter.

4.2 Bio Sparging System

Construction of the bio sparging system was completed in May 2017, and the system was started on May 25, 2017. Details of the system installation and the operation and maintenance plan are provided in AECOM's *Bio-Sparging System Installation* technical memorandum, dated March 28, 2018. The location of the bio sparging system, including the air-lines and a total of six main trunk lines, is shown on Figure 2.

The bio sparge system operated until December 6, 2019, when it was shutdown to support the fourth quarter sampling event, and the system has remained off for rebound testing.

4.3 TX-03A Area Groundwater Analytical Results

The TX-03A Area is evaluated by North Tank Farm monitoring wells (MW-201 through MW-204 and MW-206A) and TX-03A Area monitoring wells (MW-101, MW-102, MW-301 through MW-304, MW-307 through MW-315, TES-MW-1, and TX-03A). Groundwater samples from these monitoring wells were analyzed for one or more of the following: TPHg, TPHd, TPHo, BTEX, and natural attenuation parameters (Table 2). The results are included in Tables 5 and 6. The BTEX and petroleum hydrocarbon concentrations detected in groundwater in the TX-03A Area in 2024 are summarized below. The TPHg, TPHd, and benzene concentration are shown on Figures 9 and 10. The BTEX and TPHg concentration trends for monitoring well TX-03A are shown on Figure 11.

Note: To support effectiveness monitoring of the bio sparging program, the monitoring program within the TX-03A Area was modified in 2017 to include the quarterly sampling of monitoring wells MW-302, MW-303, and MW-304. Quarterly groundwater sampling began in June 2017 for monitoring wells MW-302 and MW-304 and began in December 2017 for monitoring well MW-303.

4.3.1 Petroleum Hydrocarbon Results

TPHg was analyzed in the 22 monitoring wells located in the TX-03A Area during the monitoring period (Table 2). TPHd and TPHo were analyzed in 18 monitoring wells located in the TX-03A Area during the monitoring period (Table 2).

TPHg exceeded the cleanup level of 1 mg/L during one or more sampling events in monitoring wells MW-202, MW-301, MW-302, MW-303, MW-304, MW-307, MW-310, MW-311, MW-312, MW-315, and TX-03A at concentrations ranging from 1.01 mg/L (MW-310 in December 2024) to 4.09 mg/L (MW-315 in June 2024). TPHg concentrations have decreased to below cleanup levels in 2024 at wells MW-101, MW-102, MW-201, MW-203, MW-204, MW-206A, MW-308, MW-309, MW-313, MW-314, and TES-MW-1.

Mann-Kendall trend analysis was completed by EPA and summarized in their Fifth Five-Year Review (EPA, 2020). Their review noted that wells MW-312 and MW-315 showed increasing trends for TPHg and benzene above cleanup levels, but that concentrations will likely decline as the remediated groundwater migrates downgradient.

Reported TPHd and TPHo concentrations did not exceed the cleanup levels of 10 mg/L in any monitoring well during all four quarters.

4.3.2 BTEX Results

BTEX constituents were analyzed in 21 monitoring wells located in the TX-03A Area. Benzene concentrations exceeded the cleanup level of 0.071 mg/L in monitoring wells MW-301, MW-302, MW-303, MW-304, and TX-03A at concentrations ranging from 0.0864 mg/L (MW-301 in June 2024) to 0.305 mg/L (MW-303 in September 2024). Benzene concentrations are shown on Figure 10 with the cleanup level exceedances highlighted in red.

Toluene and ethylbenzene detections were all below the cleanup levels of 200 mg/L and 29 mg/L, respectively. A cleanup level for xylenes has not been established for the Site.

4.4 Bio Sparging System Rebound Evaluation

The bio sparging system operated from May 2017 through December 2019. Twenty-one monitoring events (one event in 2019, four in 2020, four in 2021, four in 2022, four in 2023, and four in 2024) have been completed since the system was shutdown. Wells MW-301, MW-302, MW-303, MW-304, MW-307, MW-308, MW-310, and TX-03A are closest to the bio sparge lines (Figure 2).

Since the system was shutdown, TPHg, TPHd, TPHo, and BTEX concentrations have remained generally below respective cleanup levels in wells MW-301, MW-304, MW-308, and MW-310, with periodic exceedances. Well MW-308 has only had exceedances of TPHg and/or benzene cleanup levels during 2 of the 21 events. Wells MW-301, MW-304, and MW-310 have only had six to seven events with exceedances each of TPHg and/or benzene during the 21 monitoring events.

In well MW-302, TPHg concentrations have exceeded cleanup levels in 8 of the 21 events since the system was shut down, and benzene concentrations have only exceeded the cleanup level once. TPHd has only exceeded the cleanup level once in the 21 events completed since the system was shut down and TPHo has remained in compliance will the cleanup level. TPHg concentrations have exceeded cleanup objectives in wells MW-303 and MW-307 in 19 and 18 of the 21 events, respectively, and benzene in 7 of the 21 for well MW-303 and 11 of the 21 for well MW-307. TPHg concentrations in wells MW-302, MW-303, and MW-307 remain significantly lower than concentrations reported between 2012 and 2016, prior to system operation. Maximum TPHg concentrations in wells MW-302, MW-303, and MW-307 in the twenty-one events since shutdown were 1.85 mg/L (MW-302, April 2021), 4.07 mg/L (MW-303, April 2021), and 4.06J mg/L (MW-307, April 2021), compared to maximum historical concentrations of 5.86 mg/L (MW-302, April 2014), 12.8 mg/L (MW-303, February 2013), and 10.9 mg/L (MW-307, November 2012).

Based on these results, GHD recommends continued rebound monitoring in 2025.

5. Pump House Area Investigation

This area is located around the Pump House, south of SH-04 area. Monitoring wells MW-113, MW-114, and MW-115 were installed in June 2022 to assess potential groundwater impacts from the 2020 gasoline release.

5.1 Groundwater Flow

Groundwater elevations were monitored in the second and fourth quarters of 2024. Groundwater flow direction is to the east and southeast (Figure 7 and Figure 8).

5.2 Pump House Area Groundwater Analytical Results

In June and December 2024 groundwater samples were collected from MW-113, MW-114, MW-115 and analyzed for petroleum hydrocarbons and BTEX (Table 2).

5.2.1 Petroleum Hydrocarbon Results

Concentrations of TPHg, TPHd, and TPHo in monitoring wells MW-113, MW-114, and MW-115 were all below the cleanup levels of 1 mg/L (TPHg) and 10 mg/L (TPHd and TPHo) during the June and December 2024 events.

5.2.2 BTEX Results

BTEX constituents were not detected above laboratory MRLs in groundwater samples from wells MW-114 and MW-115 in either the June or December 2024 events. These wells are located to the west of the pump house.

The groundwater sample collected from well MW-113, southwest of the pump house, in June 2024, had detections of toluene, ethylbenzene and total xylenes at concentrations below cleanup levels (where established). By December 2024, the ethylbenzene, toluene and total xylenes concentrations decreased and remained below cleanup levels. Benzene was detected in well MW-113 in June 2024 at a concentration of 0.162 mg/L, which exceeds the Site-specific cleanup level (0.071 mg/L). By December 2024, the benzene concentration had reduced to 0.0246 mg/L, which is below the cleanup level.

GHD recommends continuing to monitor wells MW-113, MW-114, and MW-115 throughout 2025 to understand the contaminant trends. If concentrations of petroleum hydrocarbons and BTEX remain stable or stay below cleanup levels throughout 2025, the frequency or cessation of monitoring in 2026 will be reassessed.

6. Summary

Based on the analytical results of the January through December 2024 monitoring period, GHD concludes the following:

– Groundwater elevations at the Site generally appear to be consistent with historical levels. Elevation data will be collected in association with all monitoring events in 2025. GHD proposes no changes to the monitoring schedule, which is summarized in Table 2.
– Measurable product from an older release is still present in the Shoreline Manifold Area. During the past year, measurable product was observed in monitoring well MW-210. Absorbent socks are present for product recovery in monitoring wells MW-210 and MW-212. Given the presence of product, absorbent socks will remain in monitoring wells MW-210 and MW-212, and performance product monitoring will continue until discussed further with Ecology. The performance product monitoring schedule is included in Table 2.
– Natural attenuation parameters were collected annually from eight monitoring wells (MW-302, MW-304, MW-307, MW-308, MW-310, MW-311, MW-312, and TX-03A) on the northern boundary of the Main Tank Farm and two monitoring wells (MW-202 and MW-203) in the North Tank Farm. In support of evaluating natural attenuation and the bio sparging system, no changes to the natural attenuation monitoring program are proposed in this report. The groundwater monitoring program is summarized in Table 2.
– Of the sentry wells, cleanup level exceedances included TPHg detections in wells MW-104, MW-112A, MW-311, MW-312, and MW-315. Benzene no longer exceeds cleanup levels in these wells. A lead exceedance was detected in well MW-105 during the December 2024 event.
– POC wells MW-213 and MW-214 continue to have periodic detections of TPHg, TPHd, and TPHo at concentrations below the applicable cleanup levels. BTEX concentrations have remained below detection limits in 2024. There were no cPAH detections in 2024 in either well. If 2025 sampling results for cPAHs continue to be non-detect in wells MW-213 and MW-214, we recommend discontinuing cPAH analysis.
– SH-04 Area: Well MW-104 had a TPHg exceedance of 1.20 mg/L in June 2024. By December 2024, the TPHg concentration in MW-104 had decreased to below the cleanup level again. Despite the small exceedance in June 2024, concentrations are generally consistent with historical results.
– TX 03A Area: Concentrations of TPHg have decreased from pre bio sparge system operation levels in source area wells but still regularly exceed cleanup levels in wells MW-302, MW-303, and MW-307 with occasional benzene exceedances. GHD recommends continued rebound monitoring.
– Wells MW-113, MW-114, and MW-115 were sampled in June and December 2024 as part of the pump house release investigation. TPH and BTEX were either not detected above their laboratory MRLs and/or were below the cleanup levels, except for the benzene concentration detected above the cleanup level in the groundwater sampled from well MW-113 in June. The benzene concentration had decreased to below the cleanup level in December 2024. Currently, all analyzed constituents in MW-114, and MW-115 are below cleanup levels. GHD recommends continuing to monitor wells MW-113, MW-114, and MW-115 throughout 2025 to understand the

contaminant trends. If concentrations of petroleum hydrocarbons and BTEX remain stable or stay below cleanup levels throughout 2025, the frequency or cessation of monitoring in 2026 will be reassessed.

7. References

AECOM, 2018. Technical Memorandum: Bio-Sparging System Installation, Shell Seattle Terminal, Seattle, Washington. March 28.

AECOM, 2019a. Technical Memorandum: Stormwater System Pipe Rehabilitation Construction Completion Memorandum, Shell Harbor Island Terminal, Seattle, Washington. January 25.

AECOM, 2019b. Technical Memorandum: August 2019 Dry Weather Stormwater System Sampling Results, Shell Harbor Island Terminal, Seattle, Washington. October 14.

AECOM, 2020. Technical Memorandum: August 2020 Dry Weather Stormwater System Sampling Results, Shell Harbor Island Terminal, Seattle, Washington. September 18.

Ecology, 1998a. Cleanup Action Plan, Equilon Seattle Sales Terminal, Harbor Island Site, Seattle, Washington. September 28.

Ecology, 1998b. Equilon Seattle Terminal Model Toxics Control Act Consent Decree. October 2.

EMCON and LCI, 1999. Compliance Monitoring Plan, Equilon Seattle Sales Terminal, Seattle, Washington. Submitted to the Washington State Department of Ecology. February 24 (revised).

EPA, 2010. Third Five Year Review Report, Harbor Island Superfund Site, Seattle, Washington. September 24.

EPA, 2015. Fourth Five Year Review Report for Harbor Island Superfund Site, Seattle, Washington. September 23.

EPA, 2020. Fifth Five Year Review Report for Harbor Island Superfund Site, King County, Washington. September 16.

GHD, 2021a. Interim Action Report, Shell Harbor Island Terminal, Seattle, Washington. March 11.

GHD, 2021b. Well Installation Work Plan, Shell Harbor Island Terminal, Seattle, Washington. August 31.

GHD, 2021c. 2021 Dry Weather Stormwater System Sampling Results, Shell Harbor Island Terminal, Seattle, Washington. August 23.

GHD, 2022. Revised Site Investigation Report, Shell Harbor Island Terminal, Seattle, Washington, December 15.

GHD, 2024. 2023 Annual Compliance Monitoring Report, Shell Harbor Island Terminal, Seattle, Washington, February 14.

KJC, 1990. Contaminant Source Tracing Investigation, Harbor Island Storm Drain System. September.

RECON, 2017. Remedial Action Letter Report – Former Lubes Facility Decommissioning, Shell Harbor Island Terminal, Seattle, Washington, Consent Decree 99 2 07176 OSEA. June 19.

RETEC, 2006a. Proposed Technical Changes to Shell Harbor Island Compliance Monitoring Plan, submitted to the Washington State Department of Ecology. February 1.

RETEC, 2006b. Follow up to Telephone Conversation Regarding the Shell Harbor Island Compliance Monitoring Plan. Submitted to the Washington State Department of Ecology. March 9.

URS, 2008. Proposed Changes to Shell's Seattle Terminal Compliance Monitoring Plan. Submitted to the Washington State Department of Ecology. April.

URS, 2012. Annual Compliance Monitoring Report – 2010 2011, Shell Seattle Distribution Terminal, Seattle, Washington. February.

URS, 2014. Annual Compliance Monitoring Report 2014, Shell Harbor Island Terminal, Seattle, Washington. April.

VCA, 2016. Voluntary Compliance Agreement, Shell Harbor Island Terminal, Seattle, Washington. April.

Tables

Table 1
Groundwater Cleanup Levels
Shell Harbor Island Terminal
Seattle, Washington

Constituent	Cleanup Level[a] (mg/L)
Arsenic	0.036[b]
Benzene	0.071
cPAH TEQ	0.000031
Ethylbenzene	29.0
Lead	0.0058
TPH-G	1.0
TPH-D	10
TPH-O	10
Toluene	200.0

Notes:

[a] Cleanup levels per the Consent Decree (Ecology, 1998), except where noted.

[b] Cleanup level based on ambient water quality criteria (chronic criteria for the protection of aquatic organisms) per WAC 173-201A-040.

mg/L = milligrams per liter

cPAH TEQ = There are not established individual cleanup levels for polycyclic aromatic hydrocarbons (PAHs). The carcinogenic PAHs total toxic equivalent concentration (TEQ) is calculated and compared to the established cleanup level.

TPH-D = total petroleum hydrocarbons as diesel

TPH-G = total petroleum hydrocarbons as gasoline

TPH-O = total petroleum hydrocarbons as oil

Table 2

Groundwater Monitoring Program
Shell Harbor Island Terminal
Seattle, Washington

Well	Schedule								Analysis						Compliance Monitoring Well Network Well Class				Well Construction		Comments and Deviations from Monitoring Program
	1Q		2Q		3Q		4Q (2nd Semi-Annual & Annual)														
	Gauge	Sample	Gauge	Sample	Gauge	Sample	Gauge	Sample	Total Lead	BTEX	TPH-Gx	TPH-Dx	PAHs	NA Parameters	Performance Product	NA Performance	Groundwater Quality Confirmation	Sentry	Total Depth (ft bgs)	Screened Interval (ft bgs)	
TX-03A Area - North Tank Farm																					
MW-201	G		G		G		G	S		X	X	X						X	15	5 - 14.5	
MW-202	G		G	S	G		G	S		xA	X	X		xA		X			15	5 - 14.5	
MW-203	G		G	S	G		G	S			X	X		xA		X			15	5 - 14.5	
MW-204	G		G		G		G	S		X	X	X			X			X	15	5 - 14.5	
MW-206A	G		G		G		G	S		X	X	X					X-BGD		15	5 - 14.5	
TX-03A Area - Excluding the North Tank Farm																					
MW-101	G		G		G		G	S		X	X	X							15	5 - 14.5	
MW-102	G		G		G		G	S		X	X	X						X	15	5 - 14.5	
MW-301	G	S	G	S	G	S	G	S		X	X								15	5 - 15	
MW-302	G	S	G	S	G	S	G	S		X	X	xA		xA		X			15	5 - 15	
MW-303	G	S	G	S	G	S	G	S		X	X	xA							15	5 - 15	
MW-304	G	S	G	S	G	S	G	S		X	X	xA		xA		X			15	5 - 15	
MW-307	G	S	G	S	G	S	G	S		X	X	xS		xA		X			15	5 - 15	
MW-308	G	S	G	S	G	S	G	S		X	X			xA		X			15	5 - 15	
MW-309	G		G	S	G		G	S		X	X	xA							15	5 - 15	
MW-310	G	S	G	S	G	S	G	S		X	X	xA		xA		X			15	5 - 15	
MW-311	G	S	G	S	G	S	G	S		X	X			xA		X		X	15	5 - 15	
MW-312	G	S	G	S	G	S	G	S		X	X			xA		X		X	15	5 - 15	
MW-313	G	S	G	S	G	S	G	S		X	X	X						X	15	5 - 15	
MW-314	G	S	G	S	G	S	G	S		X	X	X						X	15	5 - 15	
MW-315	G	S	G	S	G	S	G	S		X	X	X						X	15	5 - 15	
TES-MW-1	G		G		G		G	S		X	X	X							18.5	2.5 - 18	
TX-03A	G	S	G	S	G	S	G	S		X	X	xA		xA		X			16	6 - 16	
SH-04 Area																					
MW-05			G	S			G	S		X	X	X						X	19.5	4.5 - 14.5	
MW-111			G	S			G	S		X	X	X						X	15	5 - 14.5	
MW-112A			G	S			G	S		X	X	X						X	15	5.5 - 15	
SH-04			G	S			G	S		X	X	X						X	16	6 - 16	
MW-104			G	S			G	S	X		X	X						X	15	5 - 14.5	
Pump House Area Wells																					
MW-113			G	S			G	S		X	X	X							15	5 - 15	
MW-114			G	S			G	S		X	X	X							15	5 - 15	
MW-115			G	S			G	S		X	X	X							15	5 - 15	
Additional Compliance Monitoring Wells																					
MW-105							G	S	X	X	X	X						X	15	5 - 14.5	
TX-04							G	S		X	X	X						X	16	6 - 16	
TX-06A							G	S		X	X	X						X	15.8	5.5 - 15.5	
Shoreline Manifold Area																					
MW-208	MG		MG		MG		MG								X				15	5 - 14.5	
MW-210	MG		MG		MG		MG								X				15	unknown	
MW-211	MG		MG		MG		MG								X				13	3 - 13	
MW-212	MG		MG		MG		MG								X				13	3 - 13	
MW-213			G	S			G	S		X	X	X	X				X-POC		41	30 - 40	
MW-214			G	S			G	S		X	X	X	X				X-POC		42	29.5-39.5	
Additional Wells (Included in Annual Inspection only)																					
ASW-1																			14	13 - 14	Air sparge well
PSV-1																			4	3 - 4	Soil gas well
PSV-2																			4	3 - 4	Soil gas well
SVE-1																			4	3 - 4	Soil vapor extraction well
TW-01																			14	4 - 14	Pumping test well

Table 2

Groundwater Monitoring Program
Shell Harbor Island Terminal
Seattle, Washington

Well	Schedule								Analysis						Compliance Monitoring Well Network Well Class				Well Construction		Comments and Deviations from Monitoring Program
	1Q		2Q		3Q		4Q (2nd Semi-Annual & Annual)														
	Gauge	Sample	Gauge	Sample	Gauge	Sample	Gauge	Sample	Total Lead	BTEX	TPH-Gx	TPH-Dx	PAHs	NA Parameters	Performance Product	NA Performance	Groundwater Quality Confirmation	Sentry	Total Depth (ft bgs)	Screened Interval (ft bgs)	
DP-06																			65.5	55.5 - 61.5	Wells were discovered during consultant transition. Groundwater monitoring of these wells is required.
MW-06																			71.5	56.5 - 66.5	
MW-103																			49.5	39.5 - 49	
MW-106																			15	5 - 14	
MW-107																			15.5	5 - 15	
MW-108																			50.5	40.5 - 50	
MW-109																			15	5 - 14.5	
MW-110																			15	5 - 14.5	
MW-205																			48.5	38.5 - 48	
MW-209																			49.5	39.5 - 49	
MW-305																			15	5 - 15	
MW-306																			15	5 - 15	
AMW-8																			24.5	4.5-24.5	Wells were discovered during TSO Terminal Audit and are no longer used by operations for leak detection. Groundwater monitoring of these wells is not required. Checking for well logs for future well abandonment.
AMW-X																				unknown	

Notes:

Red = Modifications to the program since the November 2008 proposed changes which were established in correspondence between URS and Ecology.
Additional modifications to incorporate Pump House Area Wells per GHD's October 14, 2022 Site Investigation Report.

1Q = March

2Q = June

3Q = August

4Q = December

Q = quarter

Total Lead by EPA Method 6020

BTEX = benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8260B

TPH-Gx = total petroleum hydrocarbons as gasoline by NWTPH-Gx

TPH-Dx = total petroleum hydrocarbons as diesel by NWTPH-Dx

PAHs = polycyclic aromatic hydrocarbons by EPA Method 8270C-SIM

NA = natural attenuation

Natural Attenuation Parameters: Nitrate and Nitrite by EPA Method 353.2, Sulfate by EPA Method 300.0, Dissolved Iron and Manganese by EPA Method 6010B/6020A (Lab Filtered), and Ferrous Iron collected in the field.

ft bgs = below ground surface

G = indicates a well to be gauged during that event

S = indicates a well to be sampled during that event

X = indicates a well to be analyzed for that analyte

$_{x}$A = indicates a well to be analyzed for that analyte during the annual sampling event only

BGD = Background well with respect to confirmational sampling

$_{x}$S = indicates a well to be analyzed for that analyte during both semi-annual sampling events only

MG = monthly gauge

POC = Conditional Point of Compliance Well

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-05	04/06/93	10.39	6.12	4.27
MW-05	05/13/93	10.39	5.92	4.47
MW-05	06/10/93	10.39	5.98	4.41
MW-05	07/08/93	10.39	6.23	4.16
MW-05	08/03/93	10.39	6.50	3.89
MW-05	10/08/93	10.39	7.22	3.17
MW-05	11/05/93	10.39	7.42	2.97
MW-05	12/03/93	10.39	7.38	3.01
MW-05	01/05/94	10.39	6.64	3.75
MW-05	02/04/94	10.39	6.54	3.85
MW-05	08/28/95	10.39	Not Measured	Not Measured
MW-05	09/27/95	10.39	8.35	2.04
MW-05	04/27/99	10.39	8.07	2.32
MW-05	07/14/99	10.39	5.88	4.51
MW-05	10/18/99	10.39	7.00	3.39
MW-05	04/05/00	10.39	5.05	5.34
MW-05	07/18/00	10.39	6.30	4.09
MW-05	10/02/00	10.39	7.15	3.24
MW-05	01/22/01	10.39	6.50	3.89
MW-05	07/23/01	10.39	7.43	2.96
MW-05	07/18/02	10.39	7.10	3.29
MW-05	01/30/03	10.39	5.84	4.55
MW-05	04/15/03	10.39	5.80	4.59
MW-05	07/17/03	10.39	7.12	3.27
MW-05	10/15/03	10.39	7.78	2.61
MW-05	10/23/03	10.39	7.80	2.59
MW-05	01/13/04	10.39	5.65	4.74
MW-05	04/19/04	13.57	6.35	7.22
MW-05	07/27/04	13.57	7.32	6.25
MW-05	10/18/04	13.57	7.36	6.21
MW-05	01/24/05	13.57	6.26	7.31
MW-05	04/18/05	13.57	6.27	7.30
MW-05	07/12/05	13.57	6.85	6.72
MW-05	10/18/05	13.57	7.60	5.97
MW-05	01/25/06	13.57	4.78	8.79
MW-05	04/25/06	13.57	5.90	7.67
MW-05	10/11/06	13.57	7.62	5.95
MW-05	11/19/08	13.57	8.23	5.34
MW-05	11/16/09	13.57	6.44	7.13
MW-05	10/29/10	13.57	6.57	7.00
MW-05	10/25/11	13.57	7.25	6.32

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-05	05/30/12	13.57	5.86	7.71
MW-05	08/23/12	13.57	6.63	6.94
MW-05	11/27/12	13.57	5.30	8.27
MW-05	05/16/13	13.57	5.72	7.85
MW-05	11/07/13	13.57	6.49	7.08
MW-05	04/22/14	13.57	5.25	8.32
MW-05	12/08/15	13.57	5.42	8.15
MW-05	05/04/16	13.57	5.22	8.35
MW-05	12/14/16	13.57	4.78	8.79
MW-05	06/13/17	13.57	5.45	8.12
MW-05	12/04/17	13.57	5.64	7.93
MW-05	06/12/18	13.57	6.43	7.14
MW-05	12/17/18	13.57	6.27	7.30
MW-05	05/15/19	13.57	6.69	6.88
MW-05	12/09/19	13.57	7.09	6.48
MW-05	06/29/20	13.57	6.30	7.27
MW-05	12/14/20	13.57	6.31	7.26
MW-05	04/12/21	13.57	5.40	8.17
MW-05	06/14/21	13.57	6.27	7.30
MW-05	12/15/21	13.57	5.00	8.57
MW-05	04/18/22	13.57	5.35	8.22
MW-05	06/27/22	13.57	5.73	7.84
MW-05	12/12/22	13.57	5.95	7.62
MW-05	06/12/23	13.57	5.98	7.59
MW-05	12/18/23	13.57	4.85	8.72
MW-05	06/17/24	13.57	8.03	5.54
MW-05	12/16/24	13.57	7.76	5.81
MW-101	04/06/93	15.14	10.48	4.66
MW-101	05/13/93	15.14	10.32	4.82
MW-101	06/10/93	15.14	10.45	4.69
MW-101	07/08/93	15.14	10.75	4.39
MW-101	08/03/93	15.14	11.09	4.05
MW-101	09/08/93	15.14	11.52	3.62
MW-101	10/08/93	15.14	11.89	3.25
MW-101	11/05/93	15.14	12.13	3.01
MW-101	12/03/93	15.14	12.14	3.00
MW-101	01/05/94	15.14	11.16	3.98
MW-101	02/04/94	15.14	11.02	4.12
MW-101	08/28/95	15.14	11.25	3.89
MW-101	09/27/95	15.14	11.49	3.65

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-101	04/27/99	15.14	9.22	5.92
MW-101	07/14/99	15.14	10.73	4.41
MW-101	10/18/99	15.14	11.78	3.36
MW-101	01/11/00	15.14	9.73	5.41
MW-101	04/05/00	15.14	9.85	5.29
MW-101	07/18/00	15.14	11.01	4.13
MW-101	10/02/00	15.14	11.85	3.29
MW-101	01/22/01	15.14	11.67	3.47
MW-101	07/23/01	15.14	12.33	2.81
MW-101	10/16/01	15.14	13.15	1.99
MW-101	04/23/02	15.14	10.81	4.33
MW-101	07/18/02	15.14	11.88	3.26
MW-101	10/23/02	15.14	12.73	2.41
MW-101	01/30/03	15.14	10.09	5.05
MW-101	04/15/03	15.14	10.36	4.78
MW-101	07/17/03	15.14	11.94	3.20
MW-101	10/15/03	15.14	12.68	2.46
MW-101	01/13/04	15.14	10.06	5.08
MW-101	04/19/04	18.21	11.13	7.08
MW-101	07/27/04	18.21	12.07	6.14
MW-101	10/18/04	18.21	12.19	6.02
MW-101	01/24/05	18.21	10.61	7.60
MW-101	04/18/05	18.21	10.86	7.35
MW-101	07/12/05	18.21	11.61	6.60
MW-101	10/18/05	18.21	12.45	5.76
MW-101	01/25/06	18.21	9.21	9.00
MW-101	04/25/06	18.21	10.75	7.46
MW-101	10/11/06	18.21	12.39	5.82
MW-101	11/18/08	18.21	11.45	6.76
MW-101	11/16/09	18.21	10.95	7.26
MW-101	10/26/10	18.21	11.36	6.85
MW-101	10/25/11	18.21	12.15	6.06
MW-101	05/30/12	18.21	10.79	7.42
MW-101	06/13/12	18.21	10.90	7.31
MW-101	09/26/12	18.21	12.04	6.17
MW-101	11/27/12	18.21	9.90	8.31
MW-101	02/22/13	18.21	10.24	7.97
MW-101	05/16/13	18.21	10.89	7.32
MW-101	09/06/13	18.21	11.99	6.22
MW-101	11/07/13	18.21	11.78	6.43
MW-101	04/22/14	18.21	10.16	8.05

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-101	11/04/14	18.21	10.70	7.51
MW-101	03/10/15	18.21	10.31	7.90
MW-101	05/15/15	18.21	10.03	8.18
MW-101	07/29/15	18.21	11.86	6.35
MW-101	12/10/15	18.21	9.12	9.09
MW-101	02/23/16	18.21	8.81	9.40
MW-101	05/03/16	18.21	10.29	7.92
MW-101	08/30/16	18.21	11.29	6.92
MW-101	12/14/16	18.21	9.62	8.59
MW-101	03/13/17	18.21	8.87	9.34
MW-101	06/13/17	18.21	10.53	7.68
MW-101	08/22/17	18.21	11.63	6.58
MW-101	12/04/17	18.21	10.18	8.03
MW-101	03/06/18	18.21	10.05	8.16
MW-101	06/12/18	18.21	11.03	7.18
MW-101	09/05/18	18.21	11.97	6.24
MW-101	12/17/18	18.21	10.98	7.23
MW-101	03/18/19	18.21	10.17	8.04
MW-101	05/15/19	18.21	10.58	7.63
MW-101	09/17/19	18.21	12.03	6.18
MW-101	12/09/19	18.21	11.82	6.39
MW-101	04/27/20	18.21	10.53	7.68
MW-101	06/29/20	18.21	11.15	7.06
MW-101	09/21/20	18.21	12.00	6.21
MW-101	12/14/20	18.21	11.10	7.11
MW-101	04/12/21	18.21	10.20	8.01
MW-101	06/14/21	18.21	11.05	7.16
MW-101	09/22/21	18.21	12.00	6.21
MW-101	12/14/21	18.21	9.41	8.80
MW-101	03/28/22	18.21	9.67	8.54
MW-101	06/27/22	18.21	11.22	6.99
MW-101	09/19/22	18.21	11.79	6.42
MW-101	12/12/22	18.21	10.70	7.51
MW-101	03/27/23	18.21	11.26	6.95
MW-101	06/12/23	18.21	10.30	7.91
MW-101	09/11/23	18.21	10.96	7.25
MW-101	12/18/23	18.21	9.31	8.90
MW-101	03/11/24	18.21	9.31	8.90
MW-101	06/17/24	18.21	10.63	7.58
MW-101	09/18/24	18.21	11.81	6.40
MW-101	12/16/24	18.21	10.55	7.66

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-102	04/06/93	12.51	7.99	4.52
MW-102	05/13/93	12.51	7.82	4.69
MW-102	06/10/93	12.51	7.80	4.71
MW-102	07/08/93	12.51	8.32	4.19
MW-102	08/03/93	12.51	8.68	3.83
MW-102	09/08/93	12.51	9.03	3.48
MW-102	10/08/93	12.51	9.44	3.07
MW-102	11/05/93	12.51	9.62	2.89
MW-102	12/03/93	12.51	9.42	3.09
MW-102	01/05/94	12.51	8.50	4.01
MW-102	02/04/94	12.51	8.52	3.99
MW-102	08/28/95	12.51	8.86	3.65
MW-102	09/27/95	12.51	9.17	3.34
MW-102	04/27/99	12.51	6.68	5.83
MW-102	07/14/99	12.51	8.40	4.11
MW-102	10/18/99	12.51	9.38	3.13
MW-102	01/11/00	12.51	7.43	5.08
MW-102	04/05/00	12.51	7.55	4.96
MW-102	07/18/00	12.51	8.37	4.14
MW-102	10/02/00	12.51	9.45	3.06
MW-102	01/22/01	12.51	9.12	3.39
MW-102	07/23/01	12.51	9.91	2.60
MW-102	04/23/02	12.51	8.17	4.34
MW-102	07/18/02	12.51	9.44	3.07
MW-102	07/18/02	12.51	9.44	3.07
MW-102	10/23/02	12.51	10.05	2.46
MW-102	01/28/03	12.51	7.20	5.31
MW-102	04/15/03	12.51	7.75	4.76
MW-102	07/17/03	12.51	9.51	3.00
MW-102	10/15/03	12.51	10.11	2.40
MW-102	01/13/04	12.51	7.49	5.02
MW-102	04/19/04	15.60	8.72	6.88
MW-102	07/27/04	15.60	9.62	5.98
MW-102	10/18/04	15.60	9.54	6.06
MW-102	01/24/05	15.60	7.92	7.68
MW-102	04/18/05	15.60	8.20	7.40
MW-102	07/12/05	15.60	9.10	6.50
MW-102	10/18/05	15.60	9.87	5.73
MW-102	01/25/06	15.60	3.94	11.66
MW-102	04/25/06	15.60	8.24	7.36

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-102	10/11/06	15.60	9.84	5.76
MW-102	11/19/08	15.60	8.79	6.81
MW-102	11/16/09	15.60	8.10	7.50
MW-102	10/28/10	15.60	8.64	6.96
MW-102	10/25/11	15.60	9.59	6.01
MW-102	05/30/12	15.60	8.27	7.33
MW-102	06/13/12	15.60	8.32	7.28
MW-102	09/26/12	15.60	9.53	6.07
MW-102	11/27/12	15.60	7.03	8.57
MW-102	02/22/13	15.60	7.88	7.72
MW-102	05/16/13	15.60	8.40	7.20
MW-102	09/06/13	15.60	9.36	6.24
MW-102	11/07/13	15.60	9.18	6.42
MW-102	04/22/14	15.60	7.69	7.91
MW-102	11/04/14	15.60	7.91	7.69
MW-102	03/10/15	15.60	7.90	7.70
MW-102	05/15/15	15.60	8.47	7.13
MW-102	07/29/15	15.60	9.39	6.21
MW-102	12/10/15	15.60	6.53	9.07
MW-102	02/23/16	15.60	6.78	8.82
MW-102	05/03/16	15.60	7.92	7.68
MW-102	08/30/16	15.60	8.98	6.62
MW-102	12/14/16	15.60	7.27	8.33
MW-102	03/13/17	15.60	6.75	8.85
MW-102	06/13/17	15.60	8.10	7.50
MW-102	08/22/17	15.60	9.20	6.40
MW-102	12/04/17	15.60	7.32	8.28
MW-102	03/06/18	15.60	8.61	6.99
MW-102	06/12/18	15.60	9.02	6.58
MW-102	09/05/18	15.60	9.47	6.13
MW-102	12/17/18	15.60	8.20	7.40
MW-102	03/18/19	15.60	7.69	7.91
MW-102	05/15/19	15.60	7.83	7.77
MW-102	09/17/19	15.60	9.36	6.24
MW-102	12/09/19	15.60	9.23	6.37
MW-102	04/27/20	15.60	7.97	7.63
MW-102	06/29/20	15.60	8.53	7.07
MW-102	09/21/20	15.60	9.48	6.12
MW-102	12/14/20	15.60	8.31	7.29
MW-102	04/12/21	15.60	7.77	7.83
MW-102	06/14/21	15.60	8.47	7.13

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-102	09/22/21	15.60	9.39	6.21
MW-102	12/16/21	15.60	6.81	8.79
MW-102	03/28/22	15.60	7.28	8.32
MW-102	06/27/22	15.60	8.46	7.14
MW-102	09/19/22	15.60	9.44	6.16
MW-102	12/12/22	15.60	7.25	8.35
MW-102	03/27/23	15.60	8.02	7.58
MW-102	06/12/23	15.60	7.97	7.63
MW-102	09/11/23	15.60	9.00	6.60
MW-102	12/18/23	15.60	6.84	8.76
MW-102	03/11/24	15.60	6.91	8.69
MW-102	06/17/24	15.60	8.35	7.25
MW-102	09/18/24	15.60	9.24	6.36
MW-102	12/16/24	15.60	7.75	7.85
MW-104	04/06/93	10.22	5.98	4.24
MW-104	05/13/93	10.22	6.79	3.43
MW-104	06/10/93	10.22	5.85	4.37
MW-104	07/08/93	10.22	6.13	4.09
MW-104	08/03/93	10.22	6.38	3.84
MW-104	09/08/93	10.22	6.72	3.50
MW-104	10/08/93	10.22	7.05	3.17
MW-104	11/05/93	10.22	7.26	2.96
MW-104	12/03/93	10.22	7.26	2.96
MW-104	01/05/94	10.22	6.64	3.58
MW-104	02/04/94	10.22	6.46	3.76
MW-104	08/28/95	10.22	6.43	3.79
MW-104	09/27/95	10.22	6.70	3.52
MW-104	04/27/99	10.22	2.41	7.81
MW-104	07/14/99	10.22	5.62	4.60
MW-104	10/18/99	10.22	6.80	3.42
MW-104	01/11/00	10.22	5.04	5.18
MW-104	04/05/00	10.22	4.80	5.42
MW-104	07/18/00	10.22	6.15	4.07
MW-104	10/02/00	10.22	7.02	3.20
MW-104	01/22/01	10.22	6.45	3.77
MW-104	07/23/01	10.22	7.39	2.83
MW-104	10/16/01	10.22	8.59	1.63
MW-104	04/23/02	10.22	5.91	4.31
MW-104	07/18/02	10.22	7.07	3.15
MW-104	10/23/02	10.22	7.74	2.48

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-104	01/28/03	10.22	6.03	4.19
MW-104	04/15/03	10.22	5.75	4.47
MW-104	07/17/03	10.22	7.08	3.14
MW-104	10/15/03	10.22	7.76	2.46
MW-104	01/13/04	10.22	5.58	4.64
MW-104	04/19/04	13.46	6.30	7.16
MW-104	07/27/04	13.46	7.25	6.21
MW-104	10/18/04	13.46	7.34	6.12
MW-104	01/24/05	13.46	6.27	7.19
MW-104	04/18/05	13.46	6.22	7.24
MW-104	07/12/05	13.46	6.81	6.65
MW-104	10/18/05	13.46	7.55	5.91
MW-104	01/25/06	13.46	4.78	8.68
MW-104	04/25/06	13.46	5.82	7.64
MW-104	10/11/06	13.46	7.54	5.92
MW-104	11/18/08	13.46	6.74	6.72
MW-104	04/08/09	13.46	6.27	7.19
MW-104	11/16/09	13.46	6.39	7.07
MW-104	04/27/10	13.46	5.45	8.01
MW-104	10/26/10	13.46	6.53	6.93
MW-104	10/25/11	13.46	7.15	6.31
MW-104	03/01/12	13.46	5.82	7.64
MW-104	05/30/12	13.46	5.74	7.72
MW-104	06/13/12	13.46	5.86	7.60
MW-104	08/23/12	13.46	6.50	6.96
MW-104	09/26/12	13.46	6.90	6.56
MW-104	11/27/12	13.46	5.24	8.22
MW-104	05/16/13	13.46	5.65	7.81
MW-104	11/07/13	13.46	6.44	7.02
MW-104	04/22/14	13.46	5.20	8.26
MW-104	11/05/14	13.46	6.02	7.44
MW-104	05/20/15	13.46	5.86	7.60
MW-104	12/09/15	13.46	5.32	8.14
MW-104	12/14/16	13.46	4.78	8.68
MW-104	06/13/17	13.46	5.41	8.05
MW-104	12/04/17	13.46	5.75	7.71
MW-104	06/12/18	13.46	5.96	7.50
MW-104	12/17/18	13.46	6.23	7.23
MW-104	05/15/19	13.46	5.97	7.49
MW-104	12/09/19	13.46	6.99	6.47
MW-104	06/29/20	13.46	6.22	7.24

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-104	12/14/20	13.46	6.18	7.28
MW-104	04/12/21	13.46	5.30	8.16
MW-104	06/14/21	13.46	6.17	7.29
MW-104	12/15/21	13.46	4.99	8.47
MW-104	04/18/22	13.46	5.21	8.25
MW-104	06/27/22	13.46	5.62	7.84
MW-104	12/12/22	13.46	5.81	7.65
MW-104	06/12/23	13.46	5.96	7.50
MW-104	12/18/23	13.46	4.78	8.68
MW-104	06/17/24	13.46	6.09	7.37
MW-104	12/16/24	13.46	5.97	7.49
MW-105	04/06/93	9.05	4.97	4.08
MW-105	05/13/93	9.05	4.88	4.17
MW-105	06/10/93	9.05	4.83	4.22
MW-105	07/08/93	9.05	5.20	3.85
MW-105	08/03/93	9.05	5.43	3.62
MW-105	09/08/93	9.05	6.76	2.29
MW-105	10/08/93	9.05	6.06	2.99
MW-105	11/05/93	9.05	6.28	2.77
MW-105	12/03/93	9.05	6.18	2.87
MW-105	01/05/94	9.05	5.65	3.40
MW-105	02/04/94	9.05	5.63	3.42
MW-105	08/28/95	9.05	5.39	3.66
MW-105	09/27/95	9.05	5.70	3.35
MW-105	04/27/99	9.05	3.39	5.66
MW-105	07/14/99	9.05	4.58	4.47
MW-105	10/18/99	9.05	5.79	3.26
MW-105	01/11/00	9.05	3.97	5.08
MW-105	04/05/00	9.05	3.84	5.21
MW-105	07/18/00	9.05	4.90	4.15
MW-105	10/02/00	9.05	6.22	2.83
MW-105	01/22/01	9.05	5.56	3.49
MW-105	07/23/01	9.05	6.48	2.57
MW-105	04/23/02	9.05	5.25	3.80
MW-105	07/18/02	9.05	6.17	2.88
MW-105	10/23/02	9.05	6.78	2.27
MW-105	01/28/03	9.05	5.02	4.03
MW-105	04/15/03	9.05	4.97	4.08
MW-105	07/17/03	9.05	6.2	2.85
MW-105	10/15/03	9.05	6.66	2.39

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-105	01/13/04	9.05	5.01	4.04
MW-105	04/19/04	12.18	5.51	6.67
MW-105	07/27/04	12.18	6.28	5.90
MW-105	10/18/04	12.18	6.15	6.03
MW-105	01/24/05	12.18	5.02	7.16
MW-105	04/18/05	12.18	5.19	6.99
MW-105	07/12/05	12.18	5.82	6.36
MW-105	10/18/05	12.18	6.44	5.74
MW-105	01/25/06	12.18	4.05	8.13
MW-105	04/25/06	12.18	5.00	7.18
MW-105	10/11/06	12.18	6.51	5.67
MW-105	11/19/08	12.18	5.52	6.66
MW-105	11/16/09	12.18	5.03	7.15
MW-105	10/26/10	12.18	5.33	6.85
MW-105	10/25/11	12.18	6.06	6.12
MW-105	11/26/12	12.18	3.82	8.36
MW-105	11/07/13	12.18	5.42	6.76
MW-105	11/05/14	12.18	4.62	7.56
MW-105	12/08/15	12.18	4.00	8.18
MW-105	12/14/16	12.18	4.15	8.03
MW-105	12/04/17	12.18	4.55	7.63
MW-105	12/17/18	12.18	5.04	7.14
MW-105	12/09/19	12.18	5.83	6.35
MW-105	12/14/20	12.18	5.18	7.00
MW-105	04/12/21	12.18	4.55	7.63
MW-105	12/15/21	12.18	3.99	8.19
MW-105	12/12/22	12.18	4.35	7.83
MW-105	12/18/23	12.18	3.99	8.19
MW-105	12/16/24	12.18	5.00	7.18
MW-111	04/06/93	8.61	4.95	3.66
MW-111	05/13/93	8.61	4.87	3.74
MW-111	06/10/93	8.61	4.84	3.77
MW-111	07/08/93	8.61	5.11	3.50
MW-111	08/03/93	8.61	5.29	3.32
MW-111	09/08/93	8.61	5.56	3.05
MW-111	10/08/93	8.61	5.81	2.80
MW-111	11/05/93	8.61	5.97	2.64
MW-111	12/03/93	8.61	5.93	2.68
MW-111	01/05/94	8.61	5.45	3.16
MW-111	02/04/94	8.61	5.28	3.33

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-111	08/28/95	8.61	5.28	3.33
MW-111	09/27/95	8.61	5.45	3.16
MW-111	04/27/99	8.61	3.55	5.06
MW-111	07/14/99	8.61	4.65	3.96
MW-111	10/18/99	8.61	5.59	3.02
MW-111	01/11/00	8.61	4.18	4.43
MW-111	04/05/00	8.61	3.94	4.67
MW-111	07/13/00	8.61	5.30	3.31
MW-111	10/02/00	8.61	5.68	2.93
MW-111	01/22/01	8.61	5.37	3.24
MW-111	07/23/01	8.61	6.22	2.39
MW-111	10/16/01	8.61	7.37	1.24
MW-111	04/23/02	8.61	5.28	3.33
MW-111	07/18/02	8.61	5.94	2.67
MW-111	10/23/02	8.61	6.50	2.11
MW-111	01/28/03	8.61	5.05	3.56
MW-111	04/15/03	8.61	5.03	3.58
MW-111	07/17/03	8.61	6.05	2.56
MW-111	10/15/03	8.61	6.45	2.16
MW-111	01/13/04	8.61	4.84	3.77
MW-111	04/19/04	11.88	5.46	6.42
MW-111	07/27/04	11.88	6.16	5.72
MW-111	10/18/04	11.88	6.11	5.77
MW-111	01/24/05	11.88	5.33	6.55
MW-111	04/18/05	11.88	5.27	6.61
MW-111	07/12/05	11.88	5.75	6.13
MW-111	10/18/05	11.88	6.26	5.62
MW-111	01/25/06	11.88	4.42	7.46
MW-111	04/25/06	11.88	4.88	7.00
MW-111	10/11/06	11.88	6.30	5.58
MW-111	11/19/08	11.88	8.62	3.26
MW-111	11/16/09	11.88	5.30	6.58
MW-111	10/26/10	11.88	5.35	6.53
MW-111	10/25/11	11.88	5.89	5.99
MW-111	05/30/12	11.88	4.81	7.07
MW-111	08/23/12	11.88	Not Measured	Not Measured
MW-111	11/29/12	11.88	4.14	7.74
MW-111	05/16/13	11.88	4.63	7.25
MW-111	11/07/13	11.88	5.10	6.78
MW-111	04/22/14	11.88	4.32	7.56
MW-111	11/05/14	11.88	4.58	7.30

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-111	12/08/15	11.88	4.36	7.52
MW-111	12/14/16	11.88	4.04	7.84
MW-111	06/13/17	11.88	4.51	7.37
MW-111	12/04/17	11.88	4.59	7.29
MW-111	06/12/18	11.88	5.25	6.63
MW-111	12/17/18	11.88	4.98	6.90
MW-111	05/15/19	11.88	4.97	6.91
MW-111	12/09/19	11.88	5.66	6.22
MW-111	06/29/20	11.88	5.12	6.76
MW-111	12/14/20	11.88	5.10	6.78
MW-111	04/12/21	11.88	4.46	7.42
MW-111	06/14/21	11.88	5.10	6.78
MW-111	12/15/21	11.88	4.14	7.74
MW-111	04/18/22	11.88	4.38	7.50
MW-111	06/27/22	11.88	4.67	7.21
MW-111	12/12/22	11.88	4.75	7.13
MW-111	06/12/23	11.88	4.59	7.29
MW-111	12/18/23	11.88	3.95	7.93
MW-111	06/17/24	11.88	5.00	6.88
MW-111	12/16/24	11.88	4.96	6.92
MW-112	04/06/93	9.98	6.69	3.29
MW-112	05/13/93	9.98	6.61	3.37
MW-112	06/10/93	9.98	6.51	3.47
MW-112	07/08/93	9.98	6.83	3.15
MW-112	08/03/93	9.98	7.00	2.98
MW-112	09/08/93	9.98	7.24	2.74
MW-112	10/08/93	9.98	7.50	2.48
MW-112	11/05/93	9.98	7.56	2.42
MW-112	12/03/93	9.98	7.41	2.57
MW-112	01/05/94	9.98	6.93	3.05
MW-112	02/04/94	9.98	6.83	3.15
MW-112	08/28/95	9.98	6.98	3.00
MW-112	09/27/95	9.98	7.13	2.85
MW-112	04/27/99	9.98	5.66	4.32
MW-112	07/14/99	9.98	6.57	3.41
MW-112	10/18/99	9.98	7.36	2.62
MW-112	01/11/00	9.98	5.89	4.09
MW-112	04/05/00	9.98	5.81	4.17
MW-112	07/18/00	9.98	7.11	2.87

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-112	10/02/00	9.98	7.57	2.41
MW-112	04/25/06	9.98	6.44	3.54
MW-112A	04/24/02	9.98	6.85	3.13
MW-112A	07/18/02	9.98	7.22	2.76
MW-112A	10/23/02	9.98	7.52	2.46
MW-112A	01/28/03	9.98	6.25	3.73
MW-112A	04/15/03	9.98	6.47	3.51
MW-112A	07/17/03	9.98	7.3	2.68
MW-112A	10/15/03	9.98	7.49	2.49
MW-112A	01/13/04	9.98	6.2	3.78
MW-112A	04/19/04	12.52	6.93	5.59
MW-112A	07/27/04	12.52	7.41	5.11
MW-112A	10/18/04	12.52	7.15	5.37
MW-112A	01/24/05	12.52	6.52	6.00
MW-112A	04/18/05	12.52	6.6	5.92
MW-112A	07/12/05	12.52	7.1	5.42
MW-112A	10/18/05	12.52	7.34	5.18
MW-112A	01/25/06	12.52	5.95	6.57
MW-112A	10/11/06	12.52	7.43	5.09
MW-112A	11/19/08	12.52	6.73	5.79
MW-112A	11/16/09	12.52	6.35	6.17
MW-112A	10/29/10	12.52	6.51	6.01
MW-112A	10/25/11	12.52	7.03	5.49
MW-112A	05/30/12	12.52	6.28	6.24
MW-112A	08/23/12	12.52	6.56	5.96
MW-112A	11/25/12	12.52	5.23	7.29
MW-112A	05/16/13	12.52	6.24	6.28
MW-112A	11/04/13	12.52	-	-
MW-112A	04/22/14	12.52	5.90	6.62
MW-112A	11/06/14	12.52	5.68	6.84
MW-112A	12/08/15	12.52	5.42	7.10
MW-112A	12/14/16	12.52	5.69	6.83
MW-112A	06/13/17	12.52	6.25	6.27
MW-112A	12/04/17	12.52	5.93	6.59
MW-112A	06/12/18	12.52	6.51	6.01
MW-112A	12/17/18	12.52	5.97	6.55
MW-112A	05/16/19	12.52	6.39	6.13
MW-112A	12/09/19	12.52	6.73	5.79
MW-112A	06/29/20	12.52	6.31	6.21
MW-112A	12/14/20	12.52	6.45	6.07

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-112A	04/12/21	12.52	6.11	6.41
MW-112A	06/14/21	12.52	6.40	6.12
MW-112A	12/15/21	12.52	5.52	7.00
MW-112A	04/18/22	12.52	6.04	6.48
MW-112A	06/27/22	12.52	6.17	6.35
MW-112A	12/12/22	12.52	5.88	6.64
MW-112A	06/12/23	12.52	5.46	7.06
MW-112A	12/18/23	12.52	5.52	7.00
MW-112A	06/17/24	12.52	6.36	6.16
MW-112A	12/16/24	12.52	6.23	6.29
MW-113	06/27/22	12.47	4.76	7.71
MW-113	12/12/22	12.47	4.82	7.65
MW-113	06/12/23	12.47	5.05	7.42
MW-113	12/18/23	12.47	3.95	8.52
MW-113	06/17/24	12.47	5.18	7.29
MW-113	12/16/24	12.47	4.96	7.51
MW-114	06/27/22	13.18	5.03	8.15
MW-114	12/12/22	13.18	5.10	8.08
MW-114	06/12/23	13.18	5.18	8.00
MW-114	12/18/23	13.18	4.22	8.96
MW-114	06/17/24	13.18	5.57	7.61
MW-114	12/16/24	13.18	5.16	8.02
MW-115	06/27/22	12.64	4.74	7.90
MW-115	12/12/22	12.64	4.60	8.04
MW-115	06/12/23	12.64	5.10	7.54
MW-115	12/18/23	12.64	3.98	8.66
MW-115	06/17/24	12.64	5.20	7.44
MW-115	12/16/24	12.64	4.85	7.79
MW-201	04/06/93	17.07	14.03	3.04
MW-201	05/13/93	17.07	14.02	3.05
MW-201	06/10/93	17.07	13.97	3.10
MW-201	07/08/93	17.07	14.25	2.82
MW-201	08/03/93	17.07	14.48	2.59
MW-201	09/08/93	17.07	14.68	2.39
MW-201	10/08/93	17.07	14.90	2.17
MW-201	11/05/93	17.07	15.03	2.04
MW-201	12/03/93	17.07	14.96	2.11

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-201	01/05/94	17.07	14.10	2.97
MW-201	02/04/94	17.07	14.32	2.75
MW-201	08/28/95	17.07	14.49	2.58
MW-201	09/27/95	17.07	14.56	2.51
MW-201	04/27/99	17.07	13.04	4.03
MW-201	07/14/99	17.07	14.26	2.81
MW-201	10/18/99	17.07	14.93	2.14
MW-201	01/11/00	17.07	13.03	4.04
MW-201	04/05/00	17.07	13.90	3.17
MW-201	07/18/00	17.07	14.09	2.98
MW-201	10/02/00	17.07	14.82	2.25
MW-201	01/22/01	17.07	14.43	2.64
MW-201	07/23/01	17.07	14.95	2.12
MW-201	10/16/01	17.07	16.11	0.96
MW-201	04/24/02	17.07	14.23	2.84
MW-201	07/18/02	17.07	14.73	2.34
MW-201	10/23/02	17.07	15.13	1.94
MW-201	01/28/03	17.07	13.13	3.94
MW-201	04/15/03	17.07	13.58	3.49
MW-201	07/17/03	17.07	14.70	2.37
MW-201	10/15/03	17.07	14.99	2.08
MW-201	01/13/04	17.07	12.71	4.36
MW-201	04/19/04	20.18	14.07	6.11
MW-201	07/27/04	20.18	14.70	5.48
MW-201	10/18/04	20.18	14.70	5.48
MW-201	01/24/05	20.18	13.44	6.74
MW-201	04/18/05	20.18	13.73	6.45
MW-201	07/12/05	20.18	14.47	5.71
MW-201	10/18/05	20.18	14.99	5.19
MW-201	01/25/06	20.18	12.61	7.57
MW-201	04/25/06	20.18	13.94	6.24
MW-201	10/11/06	20.18	15.00	5.18
MW-201	11/20/08	20.18	13.77	6.41
MW-201	11/16/09	20.18	13.74	6.44
MW-201	10/27/10	20.18	14.42	5.76
MW-201	10/26/11	20.18	14.94	5.24
MW-201	11/27/12	20.18	13.10	7.08
MW-201	02/22/13	20.18	13.74	6.44
MW-201	05/16/13	20.18	14.45	5.73
MW-201	09/06/13	20.18	14.78	5.40
MW-201	11/07/13	20.18	14.70	5.48

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-201	04/22/14	20.18	13.42	6.76
MW-201	11/04/14	20.18	13.65	6.53
MW-201	03/10/15	20.18	13.64	6.54
MW-201	05/15/15	20.18	14.34	5.84
MW-201	07/29/15	20.18	14.65	5.53
MW-201	12/10/15	20.18	12.23	7.95
MW-201	02/23/16	20.18	12.33	7.85
MW-201	05/03/16	20.18	13.74	6.44
MW-201	08/30/16	20.18	14.04	6.14
MW-201	12/14/16	20.18	12.86	7.32
MW-201	03/13/17	20.18	12.18	8.00
MW-201	06/13/17	20.18	13.85	6.33
MW-201	08/22/17	20.18	14.43	5.75
MW-201	12/04/17	20.18	12.87	7.31
MW-201	03/06/18	20.18	13.28	6.90
MW-201	06/12/18	20.18	13.58	6.60
MW-201	09/05/18	20.18	8.22	11.96
MW-201	12/17/18	20.18	13.66	6.52
MW-201	03/18/19	20.18	13.14	7.04
MW-201	05/15/19	20.18	14.06	6.12
MW-201	09/17/19	20.18	14.64	5.54
MW-201	12/09/19	20.18	14.52	5.66
MW-201	04/27/20	20.18	14.05	6.13
MW-201	06/29/20	20.18	14.32	5.86
MW-201	09/21/20	20.18	14.59	5.59
MW-201	12/14/20	20.18	14.28	5.90
MW-201	04/12/21	20.18	13.74	6.44
MW-201	06/14/21	20.18	14.32	5.86
MW-201	09/22/21	20.18	14.68	5.50
MW-201	12/16/21	20.18	--	--
MW-201	03/28/22	20.18	13.16	7.02
MW-201	06/27/22	20.18	14.06	6.12
MW-201	09/19/22	20.18	14.31	5.87
MW-201	12/12/22	20.18	13.90	6.28
MW-201	03/27/23	20.18	13.41	6.77
MW-201	06/12/23	20.18	12.96	7.22
MW-201	09/11/23	20.18	14.07	6.11
MW-201	12/18/23	20.18	12.91	7.27
MW-201	03/11/24	20.18	12.95	7.23
MW-201	06/17/24	20.18	14.18	6.00
MW-201	09/18/24	20.18	14.52	5.66

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-201	12/16/24	20.18	13.34	6.84
MW-202	04/06/93	16.77	13.23	3.54
MW-202	05/13/93	16.77	13.17	3.60
MW-202	06/10/93	16.77	13.26	3.51
MW-202	07/08/93	16.77	13.54	3.23
MW-202	08/03/93	16.77	13.76	3.01
MW-202	09/08/93	16.77	14.04	2.73
MW-202	10/08/93	16.77	14.30	2.47
MW-202	11/05/93	16.77	14.48	2.29
MW-202	12/03/93	16.77	14.34	2.43
MW-202	01/05/94	16.77	13.73	3.04
MW-202	02/04/94	16.77	13.63	3.14
MW-202	08/28/95	16.77	13.78	2.99
MW-202	09/27/95	16.77	13.95	2.82
MW-202	04/27/99	16.77	12.38	4.39
MW-202	07/14/99	16.77	13.57	3.20
MW-202	10/18/99	16.77	14.31	2.46
MW-202	01/11/00	16.77	12.95	3.82
MW-202	04/05/00	16.77	12.96	3.81
MW-202	07/18/00	16.77	13.21	3.56
MW-202	10/02/00	16.77	14.25	2.52
MW-202	01/22/01	16.77	14.46	2.31
MW-202	07/23/01	16.77	14.64	2.13
MW-202	10/16/01	16.77	15.81	0.96
MW-202	04/24/02	16.77	13.80	2.97
MW-202	07/18/02	16.77	14.28	2.49
MW-202	10/23/02	16.77	14.73	2.04
MW-202	01/28/03	16.77	12.95	3.82
MW-202	04/15/03	16.77	13.13	3.64
MW-202	07/17/03	16.77	14.30	2.47
MW-202	10/15/03	16.77	14.62	2.15
MW-202	01/13/04	16.77	12.81	3.96
MW-202	04/19/04	19.86	13.61	6.25
MW-202	07/27/04	19.86	14.29	5.57
MW-202	10/18/04	19.86	14.30	5.56
MW-202	01/24/05	19.86	13.29	6.57
MW-202	04/18/05	19.86	13.51	6.35
MW-202	07/12/05	19.86	14.02	5.84
MW-202	10/18/05	19.86	14.59	5.27
MW-202	01/25/06	19.86	12.38	7.48

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-202	04/25/06	19.86	13.43	6.43
MW-202	10/11/06	19.86	14.58	5.28
MW-202	11/20/08	19.86	13.92	5.94
MW-202	04/07/09	19.86	13.71	6.15
MW-202	11/16/09	19.86	13.70	6.16
MW-202	04/27/10	19.86	13.24	6.62
MW-202	10/27/10	19.86	14.04	5.82
MW-202	10/26/11	19.86	14.45	5.41
MW-202	03/02/12	19.86	13.70	6.16
MW-202	05/30/12	19.86	13.65	6.21
MW-202	06/13/12	19.86	13.76	6.10
MW-202	09/26/12	19.86	14.42	5.44
MW-202	11/27/12	19.86	13.09	6.77
MW-202	02/22/13	19.86	13.27	6.59
MW-202	05/16/13	19.86	13.80	6.06
MW-202	09/06/13	19.86	14.38	5.48
MW-202	11/07/13	19.86	14.25	5.61
MW-202	04/22/14	19.86	13.23	6.63
MW-202	11/04/14	19.86	13.44	6.42
MW-202	03/10/15	19.86	13.23	6.63
MW-202	05/15/15	19.86	13.76	6.10
MW-202	07/29/15	19.86	14.18	5.68
MW-202	12/10/15	19.86	12.76	7.10
MW-202	02/23/16	19.86	12.15	7.71
MW-202	05/03/16	19.86	13.11	6.75
MW-202	08/30/16	19.86	14.00	5.86
MW-202	12/14/16	19.86	12.81	7.05
MW-202	03/13/17	19.86	12.25	7.61
MW-202	06/13/17	19.86	13.23	6.63
MW-202	08/22/17	19.86	13.98	5.88
MW-202	12/04/17	19.86	13.15	6.71
MW-202	03/06/18	19.86	13.03	6.83
MW-202	06/12/18	19.86	13.53	6.33
MW-202	09/05/18	19.86	8.20	11.66
MW-202	12/17/18	19.86	13.45	6.41
MW-202	03/18/19	19.86	12.95	6.91
MW-202	05/15/19	19.86	13.42	6.44
MW-202	09/17/19	19.86	14.16	5.70
MW-202	12/09/19	19.86	14.10	5.76
MW-202	04/27/20	19.86	13.49	6.37
MW-202	06/29/20	19.86	13.75	6.11

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-202	09/21/20	19.86	14.20	5.66
MW-202	12/14/20	19.86	13.65	6.21
MW-202	04/12/21	19.86	13.15	6.71
MW-202	06/14/21	19.86	13.75	6.11
MW-202	09/22/21	19.86	14.20	5.66
MW-202	12/16/21	19.86	12.70	7.16
MW-202	03/28/22	19.86	12.77	7.09
MW-202	06/27/22	19.86	13.23	6.63
MW-202	09/19/22	19.86	13.84	6.02
MW-202	12/12/22	19.86	13.56	6.30
MW-202	03/27/23	19.86	12.98	6.88
MW-202	06/12/23	19.86	12.35	7.51
MW-202	09/11/23	19.86	13.69	6.17
MW-202	12/18/23	19.86	12.62	7.24
MW-202	03/11/24	19.86	12.58	7.28
MW-202	06/17/24	19.86	13.47	6.39
MW-202	09/18/24	19.86	14.01	5.85
MW-202	12/16/24	19.86	13.78	6.08
MW-203	04/06/93	11.04	7.39	3.65
MW-203	05/13/93	11.04	7.31	3.73
MW-203	06/10/93	11.04	7.40	3.64
MW-203	07/08/93	11.04	7.66	3.38
MW-203	08/03/93	11.04	7.93	3.11
MW-203	09/08/93	11.04	8.20	2.84
MW-203	10/08/93	11.04	8.46	2.58
MW-203	11/05/93	11.04	8.65	2.39
MW-203	12/03/93	11.04	8.64	2.40
MW-203	01/05/94	11.04	7.99	3.05
MW-203	02/04/94	11.04	7.88	3.16
MW-203	08/28/95	11.04	7.86	3.18
MW-203	09/27/95	11.04	8.02	3.02
MW-203	04/27/99	11.04	6.32	4.72
MW-203	07/14/99	11.04	7.58	3.46
MW-203	10/18/99	11.04	8.42	2.62
MW-203	01/11/00	11.04	6.98	4.06
MW-203	04/05/00	11.04	6.92	4.12
MW-203	07/18/00	11.04	8.00	3.04
MW-203	10/02/00	11.04	8.40	2.64
MW-203	01/22/01	11.04	8.47	2.57
MW-203	07/23/01	11.04	8.69	2.35

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-203	10/16/01	11.04	9.73	1.31
MW-203	04/24/02	11.04	7.45	3.59
MW-203	10/23/02	11.04	8.80	2.24
MW-203	01/28/03	11.04	6.76	4.28
MW-203	04/15/03	11.04	7.05	3.99
MW-203	07/17/03	11.04	8.25	2.79
MW-203	01/13/04	11.04	6.71	4.33
MW-203	04/19/04	13.99	7.58	6.41
MW-203	07/27/04	13.99	8.25	5.74
MW-203	10/18/04	13.99	8.34	5.65
MW-203	01/24/05	13.99	7.31	6.68
MW-203	04/18/05	13.99	7.43	6.56
MW-203	07/12/05	13.99	7.96	6.03
MW-203	10/18/05	13.99	8.64	5.35
MW-203	01/25/06	13.99	6.41	7.58
MW-203	04/25/06	13.99	7.18	6.81
MW-203	10/11/06	13.99	8.58	5.41
MW-203	11/18/08	13.99	8.01	5.98
MW-203	04/08/09	13.99	7.63	6.36
MW-203	11/16/09	13.99	4.97	9.02
MW-203	04/26/10	13.99	7.17	6.82
MW-203	10/25/10	13.99	8.10	5.89
MW-203	10/26/11	13.99	5.45	8.54
MW-203	05/30/12	13.99	7.61	6.38
MW-203	06/13/12	13.99	7.65	6.34
MW-203	09/26/12	13.99	8.40	5.59
MW-203	11/27/12	13.99	7.25	6.74
MW-203	02/22/13	13.99	7.26	6.73
MW-203	05/16/13	13.99	7.80	6.19
MW-203	09/06/13	13.99	8.37	5.62
MW-203	11/07/13	13.99	8.27	5.72
MW-203	04/22/14	13.99	7.33	6.66
MW-203	11/04/14	13.99	7.59	6.40
MW-203	03/10/15	13.99	6.70	7.29
MW-203	05/15/15	13.99	7.74	6.25
MW-203	07/29/15	13.99	8.18	5.81
MW-203	12/10/15	13.99	6.83	7.16
MW-203	02/23/16	13.99	5.92	8.07
MW-203	05/03/16	13.99	7.02	6.97
MW-203	08/30/16	13.99	8.17	5.82
MW-203	12/14/16	13.99	6.62	7.37

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-203	03/13/17	13.99	5.83	8.16
MW-203	06/13/17	13.99	7.17	6.82
MW-203	08/22/17	13.99	7.98	6.01
MW-203	12/04/17	13.99	7.24	6.75
MW-203	03/06/18	13.99	6.57	7.42
MW-203	06/12/18	13.99	7.55	6.44
MW-203	09/05/18	13.99	8.14	5.85
MW-203	12/17/18	13.99	7.68	6.31
MW-203	03/18/19	13.99	6.96	7.03
MW-203	05/16/19	13.99	7.38	6.61
MW-203	09/17/19	13.99	8.19	5.80
MW-203	12/09/19	13.99	8.13	5.86
MW-203	04/27/20	13.99	7.39	6.60
MW-203	06/29/20	13.99	7.55	6.44
MW-203	09/21/20	13.99	8.14	5.85
MW-203	12/14/20	13.99	7.62	6.37
MW-203	04/12/21	13.99	7.13	6.86
MW-203	06/14/21	13.99	7.75	6.24
MW-203	09/22/21	13.99	8.26	5.73
MW-203	12/16/21	13.99	6.80	7.19
MW-203	03/28/22	13.99	6.90	7.09
MW-203	06/27/22	13.99	7.02	6.97
MW-203	09/19/22	13.99	7.39	6.60
MW-203	12/12/22	13.99	7.04	6.95
MW-203	03/27/23	13.99	6.29	7.70
MW-203	06/12/23	13.99	5.63	8.36
MW-203	09/12/23	13.99	7.24	6.75
MW-203	12/20/23	13.99	5.16	8.83
MW-203	03/11/24	13.99	4.98	9.01
MW-203	06/17/24	13.99	7.49	6.50
MW-203	09/18/24	13.99	8.07	5.92
MW-203	12/16/24	13.99	7.43	6.56
MW-204	04/06/93	14.21	10.97	3.24
MW-204	05/13/93	14.21	10.92	3.29
MW-204	06/10/93	14.21	10.98	3.23
MW-204	07/08/93	14.21	11.20	3.01
MW-204	08/03/93	14.21	11.44	2.77
MW-204	09/08/93	14.21	11.64	2.57
MW-204	10/08/93	14.21	11.85	2.36
MW-204	11/05/93	14.21	12.03	2.18

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-204	12/03/93	14.21	12.01	2.20
MW-204	01/05/94	14.21	11.42	2.79
MW-204	02/04/94	14.21	11.35	2.86
MW-204	08/28/95	14.21	11.58	2.63
MW-204	09/27/95	14.21	11.57	2.64
MW-204	04/05/00	14.21	Not Measured	Not Measured
MW-204	10/02/00	14.21	Not Measured	Not Measured
MW-204	01/22/01	14.21	11.69	2.52
MW-204	07/23/01	14.21	12.05	2.16
MW-204	10/16/01	14.21	13.17	1.04
MW-204	07/27/04	14.21	11.67	2.54
MW-204	10/18/04	17.27	11.71	5.56
MW-204	01/24/05	17.27	10.72	6.55
MW-204	04/18/05	17.27	10.98	6.29
MW-204	07/12/05	17.27	11.4	5.87
MW-204	10/18/05	17.27	11.98	5.29
MW-204	01/25/06	17.27	9.96	7.31
MW-204	10/11/06	17.27	11.96	5.31
MW-204	11/20/08	17.27	11.45	5.82
MW-204	11/16/09	17.27	11.20	6.07
MW-204	10/27/10	17.27	11.54	5.73
MW-204	10/27/11	17.27	10.71	6.56
MW-204	03/26/12	17.27	Not Measured	Not Measured
MW-204	06/12/12	17.27	11.20	6.07
MW-204	09/27/12	17.27	Not Measured	Not Measured
MW-204	11/27/12	17.27	10.81	6.46
MW-204	12/20/12	17.27	Not Measured	Not Measured
MW-204	02/22/13	17.27	10.81	6.46
MW-204	05/16/13	17.27	11.30	5.97
MW-204	09/06/13	17.27	11.77	5.50
MW-204	11/07/13	17.27	11.71	5.56
MW-204	04/22/14	17.27	10.78	6.49
MW-204	11/04/14	17.27	11.04	6.23
MW-204	03/10/15	17.27	10.75	6.52
MW-204	05/15/15	17.27	11.21	6.06
MW-204	07/29/15	17.27	11.59	5.68
MW-204	12/10/15	17.27	9.91	7.36
MW-204	02/23/16	17.27	9.67	7.60
MW-204	05/03/16	17.27	10.53	6.74
MW-204	08/30/16	17.27	11.78	5.49
MW-204	12/14/16	17.27	10.34	6.93

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-204	03/13/17	17.27	9.83	7.44
MW-204	08/22/17	17.27	11.34	5.93
MW-204	12/04/17	17.27	10.84	6.43
MW-204	03/06/18	17.27	10.55	6.72
MW-204	06/12/18	17.27	11.04	6.23
MW-204	09/05/18	17.27	8.20	9.07
MW-204	12/17/18	17.27	11.10	6.17
MW-204	03/18/19	17.27	10.51	6.76
MW-204	05/15/19	17.27	10.98	6.29
MW-204	09/17/19	17.27	11.65	5.62
MW-204	12/09/19	17.27	11.54	5.73
MW-204	04/27/20	17.27	10.94	6.33
MW-204	06/29/20	17.27	11.26	6.01
MW-204	09/21/20	17.27	11.59	5.68
MW-204	12/14/20	17.27	11.22	6.05
MW-204	04/12/21	17.27	10.71	6.56
MW-204	06/14/21	17.27	11.27	6.00
MW-204	09/22/21	17.27	11.65	5.62
MW-204	12/16/21	17.27	10.42	6.85
MW-204	03/28/22	17.27	10.48	6.79
MW-204	06/27/22	17.27	11.18	6.09
MW-204	09/19/22	17.27	11.58	5.69
MW-204	12/12/22	17.27	10.88	6.39
MW-204	03/27/23	17.27	9.70	7.57
MW-204	06/12/23	17.27	10.23	7.04
MW-204	09/11/23	17.27	11.33	5.94
MW-204	12/18/23	17.27	9.89	7.38
MW-204	03/11/24	17.27	9.92	7.35
MW-204	06/17/24	17.27	11.23	6.04
MW-204	09/18/24	17.27	11.49	5.78
MW-204	12/16/24	17.27	10.98	6.29
MW-206	04/06/93	10.75	9.83	0.92
MW-206	05/13/93	10.75	6.72	4.03
MW-206	06/10/93	10.75	6.78	3.97
MW-206	07/08/93	10.75	7.08	3.67
MW-206	08/03/93	10.75	7.35	3.40
MW-206	09/08/93	10.75	7.66	3.09
MW-206	10/08/93	10.75	7.95	2.80
MW-206	11/05/93	10.75	8.15	2.60
MW-206	12/03/93	10.75	8.17	2.58

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-206	01/05/94	10.75	7.42	3.33
MW-206	02/04/94	10.75	7.24	3.51
MW-206	08/28/95	10.75	7.01	3.74
MW-206	09/27/95	10.75	7.19	3.56
MW-206	04/27/99	10.75	5.59	5.16
MW-206	07/14/99	10.75	6.97	3.78
MW-206	10/18/99	10.75	7.88	2.87
MW-206	01/11/00	10.75	6.34	4.41
MW-206	04/05/00	10.75	6.32	4.43
MW-206	07/18/00	10.75	7.11	3.64
MW-206	10/02/00	10.75	7.92	2.83
MW-206	01/22/01	10.75	8.93	1.82
MW-206	04/25/06	10.75	9.30	1.45
MW-206	10/11/06	10.75	10.44	0.31
MW-206A	04/24/02	10.75	7.43	3.32
MW-206A	07/18/02	10.75	8.07	2.68
MW-206A	10/23/02	10.75	8.55	2.20
MW-206A	01/28/03	10.75	6.40	4.35
MW-206A	04/15/03	10.75	5.26	5.49
MW-206A	07/17/03	10.75	8.06	2.69
MW-206A	04/19/04	15.90	9.51	6.39
MW-206A	07/27/04	15.90	10.23	5.67
MW-206A	10/18/04	15.90	10.17	5.73
MW-206A	01/24/05	15.90	9.18	6.72
MW-206A	04/18/05	15.90	9.38	6.52
MW-206A	07/12/05	15.90	9.87	6.03
MW-206A	10/18/05	15.90	10.50	5.40
MW-206A	01/25/06	15.90	8.23	7.67
MW-206A	11/20/08	15.90	9.81	6.09
MW-206A	11/16/09	15.90	9.48	6.42
MW-206A	10/25/10	15.90	9.74	6.16
MW-206A	10/26/11	15.90	10.25	5.65
MW-206A	05/30/12	15.90	9.44	6.46
MW-206A	06/13/12	15.90	9.49	6.41
MW-206A	09/26/12	15.90	10.21	5.69
MW-206A	11/27/12	15.90	9.05	6.85
MW-206A	02/22/13	15.90	9.04	6.86
MW-206A	05/16/13	15.90	8.44	7.46
MW-206A	09/06/13	15.90	10.06	5.84
MW-206A	11/07/13	15.90	10.04	5.86

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-206A	04/22/14	15.90	9.01	6.89
MW-206A	11/04/14	15.90	9.25	6.65
MW-206A	03/10/15	15.90	9.03	6.87
MW-206A	05/15/15	15.90	9.49	6.41
MW-206A	07/29/15	15.90	9.99	5.91
MW-206A	12/10/15	15.90	8.36	7.54
MW-206A	02/23/16	15.90	8.09	7.81
MW-206A	05/03/16	15.90	9.03	6.87
MW-206A	08/30/16	15.90	10.25	5.65
MW-206A	12/14/16	15.90	8.51	7.39
MW-206A	03/13/17	15.90	7.98	7.92
MW-206A	06/13/17	15.90	9.02	6.88
MW-206A	08/22/17	15.90	9.74	6.16
MW-206A	12/04/17	15.90	9.07	6.83
MW-206A	03/06/18	15.90	8.78	7.12
MW-206A	06/12/18	15.90	6.90	9.00
MW-206A	09/05/18	15.90	9.94	5.96
MW-206A	12/17/18	15.90	9.23	6.67
MW-206A	03/18/19	15.90	8.86	7.04
MW-206A	05/15/19	15.90	9.30	6.60
MW-206A	09/17/19	15.90	10.13	5.77
MW-206A	12/09/19	15.90	9.98	5.92
MW-206A	04/27/20	15.90	9.22	6.68
MW-206A	06/29/20	15.90	9.40	6.50
MW-206A	09/21/20	15.90	10.08	5.82
MW-206A	12/14/20	15.90	7.15	8.75
MW-206A	04/12/21	15.90	7.20	8.70
MW-206A	06/14/21	15.90	9.45	6.45
MW-206A	09/22/21	15.90	10.05	5.85
MW-206A	12/16/21	15.90	8.57	7.33
MW-206A	03/28/22	15.90	8.79	7.11
MW-206A	06/27/22	15.90	7.23	8.67
MW-206A	09/19/22	15.90	9.23	6.67
MW-206A	12/12/22	15.90	9.31	6.59
MW-206A	03/27/23	15.90	6.80	9.10
MW-206A	06/12/23	15.90	7.88	8.02
MW-206A	09/11/23	15.90	9.84	6.06
MW-206A	12/18/23	15.90	9.24	6.66
MW-206A	03/11/24	15.90	8.22	7.68
MW-206A	06/17/24	15.90	9.19	6.71
MW-206A	09/18/24	15.90	10.02	5.88

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-206A	12/16/24	15.90	9.30	6.60
MW-208	06/28/13	--	4.98	--
MW-208	09/11/13	--	5.67	--
MW-208	10/30/13	--	5.97	--
MW-208	11/05/13	--	5.51	--
MW-208	01/16/14	--	5.46	--
MW-208	02/27/14	--	4.72	--
MW-208	03/25/14	--	4.91	--
MW-208	04/22/14	--	4.98	--
MW-208	06/10/14	--	5.62	--
MW-208	07/24/14	--	5.50	--
MW-208	08/28/14	--	5.73	--
MW-208	09/23/14	--	5.76	--
MW-208	10/22/14	--	4.82	--
MW-208	11/05/14	--	4.50	--
MW-208	12/18/14	12.16	4.28	7.88
MW-208	01/27/15	12.16	4.52	7.64
MW-208	02/26/15	12.16	4.92	7.24
MW-208	03/11/15	12.16	5.29	6.87
MW-208	04/21/15	12.16	5.08	7.08
MW-208	05/19/15	12.16	5.31	6.85
MW-208	06/11/15	12.16	5.34	6.82
MW-208	07/29/15	12.16	5.81	6.35
MW-208	08/25/15	12.16	5.95	6.21
MW-208	09/24/15	12.16	5.72	6.44
MW-208	10/15/15	12.16	5.35	6.81
MW-208	11/20/15	12.16	4.37	7.79
MW-208	12/09/15	12.16	2.55	9.61
MW-208	02/23/16	12.16	4.18	7.98
MW-208	04/22/16	12.16	4.90	7.26
MW-208	05/03/16	12.16	5.27	6.89
MW-208	06/02/16	12.16	5.34	6.82
MW-208	07/14/16	12.16	5.58	6.58
MW-208	08/18/16	12.16	5.80	6.36
MW-208	09/08/16	12.16	5.88	6.28
MW-208	10/21/16	12.16	5.40	6.76
MW-208	11/17/16	12.16	3.67	8.49
MW-208	12/01/16	12.16	3.93	8.23
MW-208	01/11/17	12.16	2.83	9.33
MW-208	02/14/17	12.16	3.81	8.35

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-208	03/13/17	12.16	4.04	8.12
MW-208	04/13/17	12.16	3.78	8.38
MW-208	05/08/17	12.16	4.78	7.38
MW-208	06/13/17	12.16	5.00	7.16
MW-208	07/18/17	12.16	5.32	6.84
MW-208	08/22/17	12.16	5.32	6.84
MW-208	09/13/17	12.16	5.68	6.48
MW-208	10/31/17	12.16	5.58	6.58
MW-208	11/13/17	12.16	4.67	7.49
MW-208	12/04/17	12.16	4.15	8.01
MW-208	03/06/18	12.16	4.57	7.59
MW-208	06/12/18	12.16	5.25	6.91
MW-208	09/05/18	12.16	5.75	6.41
MW-208	12/17/18	12.16	4.13	8.03
MW-208	01/16/19	12.16	4.48	7.68
MW-208	02/20/19	12.16	3.98	8.18
MW-208	03/18/19	12.16	4.95	7.21
MW-208	04/10/19	12.16	4.66	7.50
MW-208	05/15/19	12.16	4.91	7.25
MW-208	06/26/19	12.16	5.47	6.69
MW-208	07/24/19	12.16	5.43	6.73
MW-208	08/13/19	12.16	5.45	6.71
MW-208	09/17/19	12.16	5.23	6.93
MW-208	10/16/19	12.16	5.61	6.55
MW-208	11/05/19	12.16	5.62	6.54
MW-208	12/09/19	12.16	5.08	7.08
MW-208	01/28/20	12.16	3.05	9.11
MW-208	02/26/20	12.16	4.81	7.35
MW-208	04/27/20	12.16	5.18	6.98
MW-208	06/16/20	12.16	5.25	6.91
MW-208	06/29/20	12.16	5.08	7.08
MW-208	07/29/20	12.16	5.20	6.96
MW-208	08/27/20	12.16	5.41	6.75
MW-208	09/21/20	12.16	5.09	7.07
MW-208	10/29/20	12.16	5.58	6.58
MW-208	11/30/20	12.16	4.82	7.34
MW-208	12/14/20	12.16	4.75	7.41
MW-208	01/21/21	12.16	4.27	7.89
MW-208	02/16/21	12.16	3.69	8.47
MW-208	03/23/21	12.16	4.53	7.63
MW-208	04/12/21	12.16	5.28	6.88

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-208	05/12/21	12.16	5.54	6.62
MW-208	06/14/21	12.16	4.97	7.19
MW-208	07/15/21	12.16	5.31	6.85
MW-208	08/18/21	12.16	5.52	6.64
MW-208	09/22/21	12.16	5.46	6.70
MW-208	10/21/21	12.16	5.32	6.84
MW-208	11/23/21	12.16	4.28	7.88
MW-208	12/14/21	12.16	3.99	8.17
MW-208	01/25/22	12.16	4.34	7.82
MW-208	02/28/22	12.16	4.59	7.57
MW-208	03/28/22	12.16	4.63	7.53
MW-208	04/18/22	12.16	5.08	7.08
MW-208	05/23/22	12.16	4.81	7.35
MW-208	06/27/22	12.16	5.02	7.14
MW-208	07/20/22	12.16	5.03	7.13
MW-208	08/23/22	12.16	5.55	6.61
MW-208	09/19/22	12.16	5.58	6.58
MW-208	12/12/22	12.16	4.21	7.95
MW-208	01/26/23	12.16	4.41	7.75
MW-208	02/23/23	12.16	4.11	8.05
MW-208	03/27/23	12.16	4.34	7.82
MW-208	04/13/23	12.16	4.44	7.72
MW-208	05/16/23	12.16	4.63	7.53
MW-208	06/12/23	12.16	4.88	7.28
MW-208	07/20/23	12.16	5.32	6.84
MW-208	08/17/23	12.16	5.37	6.79
MW-208	09/11/23	12.16	5.62	6.54
MW-208	11/16/23	12.16	4.52	7.64
MW-208	12/18/23	12.16	4.25	7.91
MW-208	01/16/24	12.16	4.02	8.14
MW-208	02/22/24	12.16	4.15	8.01
MW-208	03/11/24	12.16	3.72	8.44
MW-208	04/11/24	12.16	4.66	7.50
MW-208	05/23/24	12.16	5.48	6.68
MW-208	06/17/24	12.16	5.59	6.57
MW-208	07/11/24	12.16	5.48	6.68
MW-208	08/15/24	12.16	5.78	6.38
MW-208	09/18/24	12.16	5.56	6.60
MW-208	10/10/24	12.16	5.91	6.25
MW-208	11/14/24	12.16	4.11	8.05
MW-208	12/16/24	12.16	3.57	8.59

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-209	09/11/13	--	6.61	--
MW-209	10/30/13	--	5.65	--
MW-209	01/16/14	--	5.56	--
MW-209	02/27/14	--	6.04	--
MW-209	03/25/14	--	5.90	--
MW-209	04/22/14	--	5.89	--
MW-209	06/10/14	--	8.31	--
MW-209	07/24/14	--	6.91	--
MW-209	08/28/14	--	6.79	--
MW-209	09/23/14	--	5.73	--
MW-209	10/22/14	--	4.91	--
MW-209	11/05/14	--	6.60	--
MW-209	12/18/14	12.10	5.27	6.83
MW-209	01/27/15	12.10	4.88	7.22
MW-209	02/26/15	12.10	5.54	6.56
MW-209	03/11/15	12.10	5.55	6.55
MW-209	05/19/15	12.10	8.60	3.50
MW-210	03/29/13	--	6.53	--
MW-210	06/28/13	--	6.35	--
MW-210	09/11/13	--	6.63	--
MW-210	10/30/13	--	7.08	--
MW-210	11/05/13	--	6.41	--
MW-210	01/16/14	--	6.48	--
MW-210	02/27/14	--	6.79	--
MW-210	03/25/14	--	6.96	--
MW-210	04/22/14	--	6.32	--
MW-210	06/10/14	--	7.08	--
MW-210	07/24/14	--	6.64	--
MW-210	08/28/14	--	6.72	--
MW-210	09/23/14	--	6.56	--
MW-210	10/22/14	--	5.87	--
MW-210	11/05/14	--	6.45	--
MW-210	12/18/14	12.85	5.49	7.36
MW-210	01/27/15	12.85	6.15	6.70
MW-210	02/26/15	12.85	6.69	6.16
MW-210	03/11/15	12.85	6.56	6.29
MW-210	04/21/15	12.85	6.44	6.41
MW-210	05/19/15	12.85	6.50	6.35
MW-210	06/11/15	12.85	6.48	6.37

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-210	07/29/15	12.85	6.73	6.12
MW-210	08/25/15	12.85	6.23	6.62
MW-210	09/24/15	12.85	6.60	6.25
MW-210	10/15/15	12.85	6.30	6.55
MW-210	11/20/15	12.85	6.47	6.38
MW-210	12/09/15	12.85	4.45	8.40
MW-210	02/23/16	12.85	5.82	7.03
MW-210	04/22/16	12.85	5.96	6.89
MW-210	05/03/16	12.85	6.42	6.43
MW-210	06/02/16	12.85	6.44	6.41
MW-210	07/14/16	12.85	6.67	6.18
MW-210	08/18/16	12.85	6.78	6.07
MW-210	09/08/16	12.85	6.78	6.07
MW-210	10/21/16	12.85	6.32	6.53
MW-210	11/17/16	12.85	5.43	7.42
MW-210	12/01/16	12.85	6.00	6.85
MW-210	01/11/17	12.85	5.38	7.47
MW-210	02/14/17	12.85	5.69	7.16
MW-210	03/13/17	12.85	5.98	6.87
MW-210	04/13/17	12.85	6.42	6.43
MW-210	05/08/17	12.85	6.74	6.11
MW-210	06/13/17	12.85	6.18	6.67
MW-210	07/18/17	12.85	6.47	6.38
MW-210	08/22/17	12.85	6.42	6.43
MW-210	09/13/17	12.85	6.60	6.25
MW-210	10/31/17	12.85	6.64	6.21
MW-210	11/13/17	12.85	6.08	6.77
MW-210	12/04/17	12.85	6.05	6.80
MW-210	03/06/18	12.85	6.19	6.66
MW-210	06/12/18	12.85	6.50	6.35
MW-210	09/05/18	12.85	6.74	6.11
MW-210	12/17/18	12.85	5.31	7.54
MW-210	01/16/19	12.85	6.07	6.78
MW-210	02/20/19	12.85	6.45	6.40
MW-210	03/18/19	12.85	6.67	6.18
MW-210	04/10/19	12.85	5.24	7.61
MW-210	05/15/19	12.85	7.05	5.80
MW-210	06/26/19	12.85	6.58	6.27
MW-210	07/24/19	12.85	5.59	7.26
MW-210	08/13/19	12.85	6.58	6.27
MW-210	09/17/19	12.85	6.18	6.67

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-210	10/16/19	12.85	6.47	6.38
MW-210	11/05/19	12.85	6.78	6.07
MW-210	12/09/19	12.85	6.27	6.58
MW-210	01/28/20	12.85	4.06	8.79
MW-210	02/26/20	12.85	5.78	7.07
MW-210	04/27/20	12.85	6.43	6.42
MW-210	06/16/20	12.85	5.56	7.29
MW-210	06/29/20	12.85	6.58	6.27
MW-210	07/29/20	12.85	6.43	6.42
MW-210	08/27/20	12.85	6.71	6.14
MW-210	09/21/20	12.85	6.35	6.50
MW-210	10/29/20	12.85	6.87	5.98
MW-210	11/30/20	12.85	6.23	6.62
MW-210	12/14/20	12.85	6.05	6.80
MW-210	01/21/21	12.85	6.96	5.89
MW-210	02/16/21	12.85	5.83	7.02
MW-210	03/23/21	12.85	6.57	6.28
MW-210	04/12/21	12.85	6.42	6.43
MW-210	05/12/21	12.85	6.61	6.24
MW-210	06/14/21	12.85	6.15	6.70
MW-210	07/15/21	12.85	6.36	6.49
MW-210	08/18/21	12.85	6.60	6.25
MW-210	09/22/21	12.85	6.50	6.35
MW-210	10/21/21	12.85	6.36	6.49
MW-210	11/23/21	12.85	6.20	6.65
MW-210	12/14/21	12.85	5.12	7.73
MW-210	01/25/22	12.85	6.34	6.51
MW-210	02/28/22	12.85	6.31	6.54
MW-210	03/28/22	12.85	5.92	6.93
MW-210	04/18/22	12.85	6.18	6.69
MW-210	05/23/22	12.85	6.50	6.35
MW-210	06/27/22	12.85	6.21	6.64
MW-210	07/20/22	12.85	6.24	6.61
MW-210	08/23/22	12.85	6.62	6.23
MW-210	09/19/22	12.85	6.99	5.86
MW-210	12/12/22	12.85	5.15	7.70
MW-210	01/26/23	12.85	6.12	7.11
MW-210	02/23/23	12.85	5.79	7.06
MW-210	03/27/23	12.85	6.53	6.18
MW-210	04/13/23	12.85	5.68	7.17
MW-210	05/16/23	12.85	6.27	6.58

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-210	06/12/23	12.85	6.90	5.95
MW-210	07/20/23	12.85	6.32	6.53
MW-210	08/17/23	12.85	6.42	6.43
MW-210	09/11/23	12.85	6.81	6.04
MW-210	11/16/23	12.85	5.66	7.19
MW-210	12/18/23	12.85	5.11	7.74
MW-210	01/16/24	12.85	5.88	6.97
MW-210	02/22/24	12.85	5.52	7.33
MW-210	03/11/24	12.85	5.28	7.57
MW-210	04/11/24	12.85	5.97	6.88
MW-210	05/23/24	12.85	6.41	6.44
MW-210	06/17/24	12.85	6.05	6.80
MW-210	07/11/24	12.85	6.67	6.18
MW-210	08/15/24	12.85	6.72	6.13
MW-210	09/18/24	12.85	6.76	6.09
MW-210	10/10/24	12.85	6.83	6.02
MW-210	11/14/24	12.85	5.97	6.88
MW-210	12/16/24	12.85	5.98	6.87
MW-211	03/29/13	--	5.97	--
MW-211	06/28/13	--	5.68	--
MW-211	10/30/13	--	6.43	--
MW-211	11/05/13	--	5.68	--
MW-211	01/16/14	--	5.51	--
MW-211	02/27/14	--	5.01	--
MW-211	03/25/14	--	5.38	--
MW-211	04/22/14	--	5.33	--
MW-211	06/10/14	--	6.02	--
MW-211	07/24/14	--	6.85	--
MW-211	08/28/14	--	6.06	--
MW-211	09/23/14	--	5.96	--
MW-211	10/22/14	--	4.96	--
MW-211	11/05/14	--	4.70	--
MW-211	12/18/14	12.21	4.50	7.71
MW-211	01/27/15	12.21	4.82	7.39
MW-211	02/26/15	12.21	5.38	6.83
MW-211	03/11/15	12.21	5.52	6.69
MW-211	04/21/15	12.21	5.50	6.71
MW-211	05/19/15	12.21	5.71	6.50
MW-211	06/11/15	12.21	5.70	6.51
MW-211	07/29/15	12.21	6.10	6.11

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-211	08/25/15	12.21	6.17	6.04
MW-211	09/24/15	12.21	5.72	6.49
MW-211	10/15/15	12.21	5.30	6.91
MW-211	11/20/15	12.21	4.78	7.43
MW-211	12/09/15	12.21	2.80	9.41
MW-211	02/23/16	12.21	4.45	7.76
MW-211	04/22/16	12.21	4.67	7.54
MW-211	05/03/16	12.21	5.63	6.58
MW-211	06/02/16	12.21	5.77	6.44
MW-211	07/14/16	12.21	6.02	6.19
MW-211	08/18/16	12.21	6.16	6.05
MW-211	09/08/16	12.21	6.22	5.99
MW-211	10/21/16	12.21	6.01	6.20
MW-211	11/17/16	12.21	3.86	8.35
MW-211	12/01/16	12.21	4.14	8.07
MW-211	01/11/17	12.21	3.18	9.03
MW-211	02/14/17	12.21	4.02	8.19
MW-211	03/13/17	12.21	4.27	7.94
MW-211	04/13/17	12.21	4.02	8.19
MW-211	05/08/17	12.21	5.32	6.89
MW-211	06/13/17	12.21	5.36	6.85
MW-211	07/18/17	12.21	5.78	6.43
MW-211	08/22/17	12.21	5.76	6.45
MW-211	09/13/17	12.21	Not Measured	Not Measured
MW-211	10/31/17	12.21	Not Measured	Not Measured
MW-211	11/13/17	12.21	Not Measured	Not Measured
MW-211	12/04/17	12.21	Not Measured	Not Measured
MW-211	03/06/18	12.21	5.03	7.18
MW-211	06/12/18	12.21	5.73	6.48
MW-211	09/05/18	12.21	6.16	6.05
MW-211	12/17/18	12.21	4.14	8.07
MW-211	01/16/19	12.21	4.30	7.91
MW-211	02/20/19	12.21	4.22	7.99
MW-211	03/18/19	12.21	5.34	6.87
MW-211	04/10/19	12.21	4.66	7.55
MW-211	05/15/19	12.21	5.38	6.83
MW-211	06/26/19	12.21	6.88	5.33
MW-211	07/24/19	12.21	5.88	6.33
MW-211	08/13/19	12.21	5.72	6.49
MW-211	09/17/19	12.21	5.54	6.67
MW-211	10/16/19	12.21	5.77	6.44

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-211	11/05/19	12.21	6.01	6.20
MW-211	12/09/19	12.21	5.54	6.67
MW-211	01/28/20	12.21	3.12	9.09
MW-211	02/26/20	12.21	5.19	7.02
MW-211	04/27/20	12.21	5.47	6.74
MW-211	06/16/20	12.21	5.72	6.49
MW-211	06/29/20	12.21	5.78	6.43
MW-211	07/29/20	12.21	5.67	6.54
MW-211	08/27/20	12.21	5.85	6.36
MW-211	09/21/20	12.21	5.45	6.76
MW-211	10/29/20	12.21	5.99	6.22
MW-211	11/30/20	12.21	5.11	7.10
MW-211	12/14/20	12.21	5.28	6.93
MW-211	01/21/21	12.21	4.82	7.39
MW-211	02/16/21	12.21	4.18	8.03
MW-211	03/23/21	12.21	5.37	6.84
MW-211	04/12/21	12.21	5.65	6.56
MW-211	05/12/21	12.21	5.86	6.35
MW-211	06/14/21	12.21	5.24	6.97
MW-211	07/15/21	12.21	5.60	6.61
MW-211	08/18/21	12.21	5.90	6.31
MW-211	09/22/21	12.21	5.70	6.51
MW-211	10/21/21	12.21	5.50	6.71
MW-211	11/23/21	12.21	4.42	7.79
MW-211	12/14/21	12.21	4.39	7.82
MW-211	01/25/22	12.21	4.85	7.36
MW-211	02/28/22	12.21	4.51	7.70
MW-211	03/28/22	12.21	5.00	7.21
MW-211	04/18/22	12.21	5.28	6.93
MW-211	05/23/22	12.21	5.28	6.93
MW-211	06/27/22	12.21	5.28	6.93
MW-211	07/20/22	12.21	5.42	6.79
MW-211	08/23/22	12.21	5.94	6.27
MW-211	09/19/22	12.21	5.93	6.28
MW-211	12/12/22	12.21	4.39	7.82
MW-211	01/26/23	12.21	4.58	7.63
MW-211	02/23/23	12.21	4.45	7.76
MW-211	03/27/23	12.21	5.35	6.86
MW-211	04/13/23	12.21	4.66	7.55
MW-211	05/16/23	12.21	5.21	7.00
MW-211	06/12/23	12.21	5.35	6.86

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-211	07/20/23	12.21	5.60	6.61
MW-211	08/17/23	12.21	5.50	6.71
MW-211	09/11/23	12.21	5.94	6.27
MW-211	11/16/23	12.21	4.68	7.53
MW-211	12/18/23	12.21	4.82	7.39
MW-211	01/16/24	12.21	4.61	7.60
MW-211	02/22/24	12.21	4.36	7.85
MW-211	03/11/24	12.21	3.70	8.51
MW-211	04/11/24	12.21	4.92	7.29
MW-211	05/23/24	12.21	5.80	6.41
MW-211	06/17/24	12.21	6.00	6.21
MW-211	07/11/24	12.21	5.75	6.46
MW-211	08/15/24	12.21	6.17	6.04
MW-211	09/18/24	12.21	5.75	6.46
MW-211	10/10/24	12.21	6.24	5.97
MW-211	11/14/24	12.21	4.45	7.76
MW-211	12/16/24	12.21	3.74	8.47
MW-212	03/29/13	--	4.90	--
MW-212	06/28/13	--	4.42	--
MW-212	09/11/13	--	5.32	--
MW-212	09/12/13	--	5.52	--
MW-212	10/30/13	--	5.28	--
MW-212	11/05/13	--	5.51	--
MW-212	01/16/14	--	5.47	--
MW-212	02/27/14	--	6.12	--
MW-212	03/25/14	--	6.30	--
MW-212	04/22/14	--	5.85	--
MW-212	06/10/14	--	Not Measured	Not Measured
MW-212	07/24/14	--	6.06	--
MW-212	08/28/14	--	6.23	--
MW-212	09/23/14	--	6.08	--
MW-212	10/22/14	--	4.13	--
MW-212	11/05/14	--	5.12	--
MW-212	12/18/14	11.95	4.89	7.06
MW-212	01/27/15	11.95	5.38	6.57
MW-212	02/26/15	11.95	5.59	6.36
MW-212	03/11/15	11.95	5.45	6.50
MW-212	04/21/15	11.95	5.85	6.10
MW-212	05/19/15	11.95	5.67	6.28
MW-212	06/11/15	11.95	5.46	6.49

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-212	07/29/15	11.95	5.85	6.10
MW-212	08/25/15	11.95	6.82	5.13
MW-212	09/24/15	11.95	6.33	5.62
MW-212	10/15/15	11.95	5.82	6.13
MW-212	11/20/15	11.95	5.51	6.44
MW-212	12/09/15	11.95	3.61	8.34
MW-212	02/23/16	11.95	4.38	7.57
MW-212	04/22/16	11.95	5.37	6.58
MW-212	05/03/16	11.95	6.00	5.95
MW-212	06/02/16	11.95	6.18	5.77
MW-212	07/14/16	11.95	6.27	5.68
MW-212	08/18/16	11.95	6.44	5.51
MW-212	09/08/16	11.95	6.55	5.40
MW-212	10/21/16	11.95	6.10	5.85
MW-212	11/17/16	11.95	4.68	7.27
MW-212	12/01/16	11.95	4.88	7.07
MW-212	01/11/17	11.95	3.88	8.07
MW-212	02/14/17	11.95	4.79	7.16
MW-212	03/13/17	11.95	4.98	6.97
MW-212	04/13/17	11.95	5.02	6.93
MW-212	05/08/17	11.95	5.31	6.64
MW-212	06/13/17	11.95	5.60	6.35
MW-212	07/18/17	11.95	5.83	6.12
MW-212	08/22/17	11.95	5.92	6.03
MW-212	09/13/17	11.95	6.21	5.74
MW-212	10/31/17	11.95	6.17	5.78
MW-212	11/13/17	11.95	4.98	6.97
MW-212	12/04/17	11.95	5.38	6.57
MW-212	03/06/18	11.95	5.46	6.49
MW-212	06/12/18	11.95	6.06	5.89
MW-212	09/05/18	11.95	6.35	5.60
MW-212	12/17/18	11.95	4.43	7.52
MW-212	01/16/19	11.95	5.56	6.39
MW-212	02/20/19	11.95	4.32	7.63
MW-212	03/18/19	11.95	6.12	5.83
MW-212	04/10/19	11.95	5.78	6.17
MW-212	05/15/19	11.95	6.13	5.82
MW-212	06/26/19	11.95	6.11	5.84
MW-212	07/24/19	11.95	5.96	5.99
MW-212	08/13/19	11.95	6.02	5.93
MW-212	09/17/19	11.95	6.28	5.67

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-212	10/16/19	11.95	6.36	5.59
MW-212	11/05/19	11.95	6.51	5.44
MW-212	12/09/19	11.95	6.14	5.81
MW-212	01/28/20	11.95	2.03	9.92
MW-212	02/26/20	11.95	4.97	6.98
MW-212	04/27/20	11.95	5.29	6.66
MW-212	06/16/20	11.95	6.25	5.70
MW-212	06/29/20	11.95	5.85	6.10
MW-212	07/29/20	11.95	6.31	5.64
MW-212	08/27/20	11.95	6.15	5.80
MW-212	09/21/20	11.95	6.23	5.72
MW-212	10/29/20	11.95	6.23	5.72
MW-212	11/30/20	11.95	5.10	6.85
MW-212	12/14/20	11.95	5.83	6.12
MW-212	01/21/21	11.95	5.63	6.32
MW-212	02/16/21	11.95	4.25	7.70
MW-212	03/23/21	11.95	5.74	6.21
MW-212	04/12/21	11.95	6.31	5.64
MW-212	05/12/21	11.95	6.21	5.74
MW-212	06/14/21	11.95	5.62	6.33
MW-212	07/15/21	11.95	6.01	5.94
MW-212	08/18/21	11.95	6.16	5.79
MW-212	09/22/21	11.95	6.10	5.85
MW-212	10/21/21	11.95	6.05	5.90
MW-212	11/23/21	11.95	5.19	6.76
MW-212	12/14/21	11.95	4.79	7.16
MW-212	01/25/22	11.95	5.67	6.28
MW-212	02/28/22	11.95	2.86	9.09
MW-212	03/28/22	11.95	5.98	5.97
MW-212	04/18/22	11.95	5.98	5.97
MW-212	05/23/22	11.95	5.70	6.25
MW-212	06/27/22	11.95	5.90	6.05
MW-212	07/20/22	11.95	5.85	6.10
MW-212	08/23/22	11.95	6.19	5.76
MW-212	09/19/22	11.95	6.19	5.76
MW-212	12/12/22	11.95	4.70	7.25
MW-212	01/26/23	11.95	4.59	7.36
MW-212	02/23/23	11.95	5.07	6.88
MW-212	03/27/23	11.95	5.61	6.34
MW-212	04/13/23	11.95	5.17	6.78
MW-212	05/16/23	11.95	5.70	6.25

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-212	06/12/23	11.95	5.65	6.30
MW-212	07/20/23	11.95	6.01	5.94
MW-212	08/17/23	11.95	5.99	5.96
MW-212	09/11/23	11.95	6.39	5.56
MW-212	11/16/23	11.95	5.43	6.52
MW-212	12/18/23	11.95	5.13	6.82
MW-212	01/16/24	11.95	5.15	6.80
MW-212	02/22/24	11.95	4.31	7.64
MW-212	03/11/24	11.95	4.18	7.77
MW-212	04/11/24	11.95	5.68	6.27
MW-212	05/23/24	11.95	5.65	6.30
MW-212	06/17/24	11.95	6.12	5.83
MW-212	07/11/24	11.95	6.17	5.78
MW-212	08/15/24	11.95	6.44	5.51
MW-212	09/18/24	11.95	6.43	5.52
MW-212	10/10/24	11.95	6.35	5.60
MW-212	11/14/24	11.95	3.29	8.66
MW-212	12/16/24	11.95	3.44	8.51
MW-213	07/23/01	8.57	10.17	-1.60
MW-213	10/16/01	8.57	5.81	2.76
MW-213	04/24/02	8.57	7.34	1.23
MW-213	07/18/02	8.57	7.39	1.18
MW-213	10/23/02	8.57	5.04	3.53
MW-213	01/28/03	8.57	4.60	3.97
MW-213	04/15/03	8.57	4.43	4.14
MW-213	07/17/03	8.57	10.24	-1.67
MW-213	10/15/03	8.57	5.85	2.72
MW-213	01/13/04	8.57	5.02	3.55
MW-213	04/19/04	8.57	7.91	0.66
MW-213	07/27/04	8.57	6.94	1.63
MW-213	10/18/04	8.57	5.70	2.87
MW-213	01/24/05	8.57	4.70	3.87
MW-213	04/18/05	8.57	7.43	1.14
MW-213	07/12/05	8.57	8.72	-0.15
MW-213	10/18/05	8.57	7.24	1.33
MW-213	01/25/06	8.57	5.79	2.78
MW-213	04/25/06	8.57	7.82	0.75
MW-213	10/11/06	8.57	6.09	2.48
MW-213	11/19/08	8.57	5.98	2.59
MW-213	04/07/09	8.57	7.69	0.88

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-213	11/16/09	8.57	4.97	3.60
MW-213	04/26/10	8.57	8.22	0.35
MW-213	10/28/10	8.57	5.33	3.24
MW-213	10/25/11	8.57	7.43	1.14
MW-213	06/12/12	8.57	7.84	0.73
MW-213	11/29/12	8.57	4.65	3.92
MW-213	05/15/13	8.57	8.86	-0.29
MW-213	10/30/13	8.57	5.45	3.12
MW-213	11/05/13	8.57	5.29	3.28
MW-213	04/22/14	8.57	6.39	2.18
MW-213	11/05/14	12.17	6.55	5.62
MW-213	05/19/15	12.17	7.85	4.32
MW-213	12/09/15	12.17	4.18	7.99
MW-213	12/14/16	12.17	5.22	6.95
MW-213	06/13/17	12.17	5.75	6.42
MW-213	12/04/17	12.17	6.33	5.84
MW-213	06/12/18	12.17	9.38	2.79
MW-213	12/17/18	12.17	3.87	8.30
MW-213	05/15/19	12.17	8.76	3.41
MW-213	12/09/19	12.17	6.26	5.91
MW-213	06/29/20	12.17	7.30	4.87
MW-213	12/14/20	12.17	5.21	6.96
MW-213	04/12/21	12.17	6.01	6.16
MW-213	06/14/21	12.17	5.45	6.72
MW-213	12/16/21	12.17	5.76	6.41
MW-213	06/27/22	12.17	6.88	5.29
MW-213	12/12/22	12.17	4.35	7.82
MW-213	06/12/23	12.17	5.97	6.20
MW-213	12/18/23	12.17	4.00	8.17
MW-213	06/17/24	12.17	8.60	3.57
MW-213	12/16/24	12.17	4.58	7.59
MW-214	07/23/01	8.63	10.37	-1.74
MW-214	10/19/01	8.63	5.74	2.89
MW-214	04/24/02	8.63	7.94	0.69
MW-214	07/18/02	8.63	7.25	1.38
MW-214	10/23/02	8.63	5.85	2.78
MW-214	01/28/03	8.63	4.25	4.38
MW-214	04/15/03	8.63	4.66	3.97
MW-214	07/17/03	8.63	10.40	-1.77
MW-214	10/15/03	8.63	4.89	3.74

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-214	01/13/04	8.63	4.86	3.77
MW-214	04/19/04	8.63	7.92	0.71
MW-214	07/27/04	8.63	6.42	2.21
MW-214	10/18/04	8.63	5.37	3.26
MW-214	01/24/05	8.63	5.00	3.63
MW-214	04/18/05	8.63	7.65	0.98
MW-214	07/12/05	8.63	8.82	-0.19
MW-214	10/18/05	8.63	7.18	1.45
MW-214	01/25/06	8.63	5.96	2.67
MW-214	04/25/06	8.63	7.80	0.83
MW-214	10/11/06	8.63	5.95	2.68
MW-214	11/19/08	8.63	5.50	3.13
MW-214	04/07/09	12.92	7.05	5.87
MW-214	11/16/09	12.92	5.28	7.64
MW-214	04/26/10	12.92	7.80	5.12
MW-214	10/28/10	12.92	5.25	7.67
MW-214	10/25/11	12.92	7.78	5.14
MW-214	06/12/12	12.92	7.80	5.12
MW-214	11/29/12	12.92	5.00	7.92
MW-214	05/15/13	12.92	9.23	3.69
MW-214	10/30/13	12.92	7.88	5.04
MW-214	11/05/13	12.92	5.38	7.54
MW-214	02/27/14	12.92	6.08	6.84
MW-214	04/22/14	12.92	6.78	6.14
MW-214	11/05/14	12.39	6.80	5.59
MW-214	05/19/15	12.39	8.10	4.29
MW-214	12/09/15	12.39	4.74	7.65
MW-214	12/14/16	12.39	5.58	6.81
MW-214	06/13/17	12.39	6.04	6.35
MW-214	12/04/17	12.39	6.41	5.98
MW-214	06/12/18	12.39	9.70	2.69
MW-214	12/17/18	12.39	4.13	8.26
MW-214	05/15/19	12.39	7.81	4.58
MW-214	12/09/19	12.39	6.39	6.00
MW-214	06/29/20	12.39	7.59	4.80
MW-214	12/14/20	12.39	5.32	7.07
MW-214	04/12/21	12.39	5.87	6.52
MW-214	06/14/21	12.39	5.63	6.76
MW-214	12/16/21	12.39	5.71	6.68
MW-214	06/27/22	12.39	7.74	4.65
MW-214	12/12/22	12.39	4.38	8.01

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-214	06/12/23	12.39	6.70	5.69
MW-214	12/18/23	12.39	3.86	8.53
MW-214	06/17/24	12.39	8.81	3.58
MW-214	12/16/24	12.39	4.38	8.01
MW-301	03/02/12	12.56	6.03	6.53
MW-301	05/30/12	12.56	6.03	6.53
MW-301	06/13/12	12.56	6.11	6.45
MW-301	09/26/12	12.56	6.82	5.74
MW-301	11/27/12	12.56	5.34	7.22
MW-301	02/21/13	12.56	5.66	6.90
MW-301	05/16/13	12.56	6.14	6.42
MW-301	09/06/13	12.56	6.71	5.85
MW-301	11/07/13	12.56	6.60	5.96
MW-301	04/22/14	12.56	5.56	7.00
MW-301	07/24/14	12.56	6.38	6.18
MW-301	09/23/14	12.56	6.71	5.85
MW-301	11/04/14	12.56	5.73	6.83
MW-301	03/10/15	12.56	5.64	6.92
MW-301	05/15/15	12.56	6.10	6.46
MW-301	07/29/15	12.56	6.63	5.93
MW-301	12/10/15	12.56	4.57	7.99
MW-301	02/23/16	12.56	4.50	8.06
MW-301	05/03/16	12.56	5.53	7.03
MW-301	08/30/16	12.56	6.68	5.88
MW-301	12/14/16	12.56	5.08	7.48
MW-301	03/13/17	12.56	7.60	4.96
MW-301	05/16/17	12.56	5.21	7.35
MW-301	06/13/17	12.56	5.70	6.86
MW-301	08/22/17	12.56	6.43	6.13
MW-301	12/04/17	12.56	5.40	7.16
MW-301	03/06/18	12.56	5.37	7.19
MW-301	06/12/18	12.56	5.90	6.66
MW-301	09/05/18	12.56	6.58	5.98
MW-301	12/17/18	12.56	5.75	6.81
MW-301	03/18/19	12.56	5.23	7.33
MW-301	05/16/19	12.56	5.74	6.82
MW-301	09/17/19	12.56	6.49	6.07
MW-301	12/09/19	12.56	6.41	6.15
MW-301	04/27/20	12.56	5.50	7.06
MW-301	06/29/20	12.56	5.85	6.71

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-301	09/21/20	12.56	6.57	5.99
MW-301	12/14/20	12.56	5.90	6.66
MW-301	04/12/21	12.56	5.26	7.30
MW-301	06/14/21	12.56	5.95	6.61
MW-301	09/22/21	12.56	6.57	5.99
MW-301	12/16/21	12.56	4.67	7.89
MW-301	03/28/22	12.56	4.91	7.65
MW-301	06/27/22	12.56	5.34	7.22
MW-301	09/21/22	12.56	6.95	5.61
MW-301	12/12/22	12.56	5.22	7.34
MW-301	03/27/23	12.56	5.56	7.00
MW-301	06/12/23	12.56	5.90	6.66
MW-301	09/11/23	12.56	6.17	6.39
MW-301	12/18/23	12.56	4.49	8.07
MW-301	03/11/24	12.56	4.39	8.17
MW-301	06/17/24	12.56	5.78	6.78
MW-301	09/18/24	12.56	6.32	6.24
MW-301	12/16/24	12.56	5.41	7.15
MW-302	03/01/12	12.85	6.47	6.38
MW-302	05/30/12	12.85	Not Measured	Not Measured
MW-302	06/13/12	12.85	Not Measured	Not Measured
MW-302	09/26/12	12.85	7.23	5.62
MW-302	11/27/12	12.85	5.83	7.02
MW-302	02/22/13	12.85	6.10	6.75
MW-302	05/16/13	12.85	6.61	6.24
MW-302	09/06/13	12.85	7.11	5.74
MW-302	11/07/13	12.85	6.99	5.86
MW-302	01/16/14	12.85	6.80	6.05
MW-302	04/22/14	12.85	6.09	6.76
MW-302	06/10/14	12.85	6.40	6.45
MW-302	07/24/14	12.85	6.85	6.00
MW-302	09/23/14	12.85	7.13	5.72
MW-302	11/04/14	12.85	6.28	6.57
MW-302	03/10/15	12.85	6.22	6.63
MW-302	05/15/15	12.85	6.60	6.25
MW-302	07/29/15	12.85	7.07	5.78
MW-302	12/10/15	12.85	5.12	7.73
MW-302	02/23/16	12.85	5.23	7.62
MW-302	05/03/16	12.85	6.15	6.70
MW-302	08/30/16	12.85	7.26	5.59

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-302	12/14/16	12.85	5.74	7.11
MW-302	03/13/17	12.85	5.33	7.52
MW-302	05/16/17	12.85	5.79	7.06
MW-302	06/13/17	12.85	6.30	6.55
MW-302	08/22/17	12.85	6.92	5.93
MW-302	12/04/17	12.85	5.80	7.05
MW-302	03/06/18	12.85	5.91	6.94
MW-302	06/12/18	12.85	6.48	6.37
MW-302	09/05/18	12.85	6.96	5.89
MW-302	12/17/18	12.85	6.10	6.75
MW-302	03/18/19	12.85	5.65	7.20
MW-302	05/16/19	12.85	6.20	6.65
MW-302	09/17/19	12.85	7.33	5.52
MW-302	12/09/19	12.85	6.75	6.10
MW-302	04/27/20	12.85	5.95	6.90
MW-302	06/29/20	12.85	6.22	6.63
MW-302	09/21/20	12.85	6.92	5.93
MW-302	12/15/20	12.85	6.15	6.70
MW-302	04/13/21	12.85	5.67	7.18
MW-302	06/15/21	12.85	6.28	6.57
MW-302	09/23/21	12.85	6.84	6.01
MW-302	12/16/21	12.85	4.98	7.87
MW-302	03/28/22	12.85	5.25	7.60
MW-302	06/27/22	12.85	5.68	7.17
MW-302	09/21/22	12.85	7.38	5.47
MW-302	12/12/22	12.85	5.88	6.97
MW-302	03/27/23	12.85	5.44	7.41
MW-302	06/13/23	12.85	6.32	6.53
MW-302	09/12/23	12.85	6.80	6.05
MW-302	12/20/23	12.85	4.38	8.47
MW-302	03/11/24	12.85	4.75	8.10
MW-302	06/17/24	12.85	6.01	6.84
MW-302	09/18/24	12.85	6.67	6.18
MW-302	12/16/24	12.85	5.73	7.12
MW-303	03/02/12	12.64	5.96	6.68
MW-303	05/30/12	12.64	5.97	6.67
MW-303	06/13/12	12.64	6.06	6.58
MW-303	09/26/12	12.64	6.86	5.78
MW-303	11/27/12	12.64	5.22	7.42
MW-303	02/21/13	12.64	5.58	7.06

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-303	05/16/13	12.64	6.10	6.54
MW-303	09/06/13	12.64	6.80	5.84
MW-303	11/07/13	12.64	6.61	6.03
MW-303	04/22/14	12.64	5.49	7.15
MW-303	07/24/14	12.64	6.44	6.20
MW-303	09/23/14	12.64	6.80	5.84
MW-303	11/04/14	12.64	5.73	6.91
MW-303	03/10/15	12.64	5.62	7.02
MW-303	05/15/15	12.64	6.11	6.53
MW-303	07/29/15	12.64	6.71	5.93
MW-303	12/10/15	12.64	4.38	8.26
MW-303	02/23/16	12.64	4.44	8.20
MW-303	05/03/16	12.64	5.56	7.08
MW-303	08/30/16	12.64	6.82	5.82
MW-303	12/14/16	12.64	5.06	7.58
MW-303	03/13/17	12.64	4.51	8.13
MW-303	05/16/17	12.64	5.18	7.46
MW-303	06/13/17	12.64	5.75	6.89
MW-303	08/22/17	12.64	6.55	6.09
MW-303	12/04/17	12.64	5.35	7.29
MW-303	03/06/18	12.64	5.35	7.29
MW-303	06/12/18	12.64	6.07	6.57
MW-303	09/05/18	12.64	6.73	5.91
MW-303	12/17/18	12.64	5.83	6.81
MW-303	03/18/19	12.64	5.33	7.31
MW-303	05/16/19	12.64	5.89	6.75
MW-303	09/17/19	12.64	6.68	5.96
MW-303	12/09/19	12.64	6.54	6.10
MW-303	04/27/20	12.64	5.63	7.01
MW-303	06/29/20	12.64	6.10	6.54
MW-303	09/21/20	12.64	6.72	5.92
MW-303	12/14/20	12.64	5.95	6.69
MW-303	04/12/21	12.64	5.33	7.31
MW-303	06/14/21	12.64	6.00	6.64
MW-303	09/22/21	12.64	6.69	5.95
MW-303	12/15/21	12.64	4.61	8.03
MW-303	03/28/22	12.64	4.84	7.80
MW-303	06/27/22	12.64	5.38	7.26
MW-303	09/21/22	12.64	7.02	5.62
MW-303	12/12/22	12.64	5.24	7.40
MW-303	03/27/23	12.64	5.33	7.31

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-303	06/12/23	12.64	6.02	6.62
MW-303	09/11/23	12.64	6.36	6.28
MW-303	12/18/23	12.64	4.58	8.06
MW-303	03/11/24	12.64	4.44	8.20
MW-303	06/17/24	12.64	5.78	6.86
MW-303	09/18/24	12.64	6.48	6.16
MW-303	12/16/24	12.64	5.53	7.11
MW-304	03/01/12	12.70	6.07	6.63
MW-304	05/30/12	12.70	6.12	6.58
MW-304	06/13/12	12.70	6.22	6.48
MW-304	09/26/12	12.70	6.98	5.72
MW-304	11/27/12	12.70	5.43	7.27
MW-304	02/22/13	12.70	5.78	6.92
MW-304	05/16/13	12.70	Not Measured	Not Measured
MW-304	09/06/13	12.70	6.89	5.81
MW-304	11/07/13	12.70	6.75	5.95
MW-304	01/16/14	12.70	6.50	6.20
MW-304	04/22/14	12.70	5.67	7.03
MW-304	07/24/14	12.70	6.57	6.13
MW-304	09/23/14	12.70	6.89	5.81
MW-304	11/04/14	12.70	5.91	6.79
MW-304	03/10/15	12.70	5.80	6.90
MW-304	05/15/15	12.70	6.28	6.42
MW-304	07/29/15	12.70	6.84	5.86
MW-304	12/10/15	12.70	4.80	7.90
MW-304	02/23/16	12.70	Not Measured	Not Measured
MW-304	05/03/16	12.70	5.79	6.91
MW-304	08/30/16	12.70	Not Measured	Not Measured
MW-304	12/14/16	12.70	5.27	7.43
MW-304	03/13/17	12.70	4.82	7.88
MW-304	06/13/17	12.70	5.95	6.75
MW-304	08/22/17	12.70	6.67	6.03
MW-304	12/04/17	12.70	5.53	7.17
MW-304	03/06/18	12.70	5.46	7.24
MW-304	06/12/18	12.70	6.18	6.52
MW-304	09/05/18	12.70	6.78	5.92
MW-304	12/17/18	12.70	5.90	6.80
MW-304	03/18/19	12.70	5.39	7.31
MW-304	05/16/19	12.70	5.98	6.72
MW-304	09/17/19	12.70	6.67	6.03

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-304	12/09/19	12.70	6.58	6.12
MW-304	04/27/20	12.70	5.71	6.99
MW-304	06/29/20	12.70	6.10	6.60
MW-304	09/21/20	12.70	6.78	5.92
MW-304	12/14/20	12.70	6.00	6.70
MW-304	04/12/21	12.70	5.42	7.28
MW-304	06/14/21	12.70	6.05	6.65
MW-304	09/22/21	12.70	6.72	5.98
MW-304	12/16/21	12.70	4.69	8.01
MW-304	03/28/22	12.70	5.08	7.62
MW-304	06/27/22	12.70	5.45	7.25
MW-304	09/20/22	12.70	7.03	5.67
MW-304	12/12/22	12.70	5.28	7.42
MW-304	03/27/23	12.70	5.71	6.99
MW-304	06/12/23	12.70	6.05	6.65
MW-304	09/11/23	12.70	6.39	6.31
MW-304	12/18/23	12.70	4.57	8.13
MW-304	03/11/24	12.70	4.59	8.11
MW-304	06/17/24	12.70	5.81	6.89
MW-304	09/18/24	12.70	6.53	6.17
MW-304	12/16/24	12.70	5.44	7.26
MW-305	03/01/12	13.48	6.47	7.01
MW-305	05/30/12	13.48	6.43	7.05
MW-305	06/11/12	13.48	6.43	7.05
MW-305	09/26/12	13.48	7.22	6.26
MW-305	11/28/12	13.48	5.86	7.62
MW-305	05/16/13	13.48	6.01	7.47
MW-305	11/07/13	13.48	6.40	7.08
MW-305	04/22/14	13.48	5.92	7.56
MW-305	11/06/14	13.48	6.22	7.26
MW-305	05/21/15	13.48	6.32	7.16
MW-306	03/01/12	13.36	6.24	7.12
MW-306	05/30/12	13.36	6.14	7.22
MW-306	06/11/12	13.36	6.12	7.24
MW-306	09/26/12	13.36	6.99	6.37
MW-306	11/28/12	13.36	5.64	7.72
MW-306	05/16/13	13.36	5.57	7.79
MW-306	11/07/13	13.36	6.04	7.32
MW-306	04/22/14	13.36	5.63	7.73

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-306	05/21/15	13.36	5.99	7.37
MW-306	12/10/15	13.36	4.80	8.56
MW-307	11/27/12	15.62	7.94	7.68
MW-307	02/22/13	15.62	8.42	7.20
MW-307	05/16/13	15.62	8.91	6.71
MW-307	09/06/13	15.62	9.67	5.95
MW-307	11/07/13	15.62	9.49	6.13
MW-307	04/22/14	15.62	8.52	7.10
MW-307	03/10/15	15.62	8.42	7.20
MW-307	05/15/15	15.62	8.92	6.70
MW-307	07/29/15	15.62	9.58	6.04
MW-307	12/10/15	15.62	7.33	8.29
MW-307	02/23/16	15.62	7.24	8.38
MW-307	05/03/16	15.62	8.39	7.23
MW-307	08/30/16	15.62	9.51	6.11
MW-307	12/14/16	15.62	7.84	7.78
MW-307	03/13/17	15.62	7.32	8.30
MW-307	05/16/17	15.62	8.02	7.60
MW-307	06/13/17	15.62	8.51	7.11
MW-307	08/22/17	15.62	9.42	6.20
MW-307	09/25/17	15.62	9.76	5.86
MW-307	12/04/17	15.62	8.18	7.44
MW-307	03/06/18	15.62	8.16	7.46
MW-307	06/12/18	15.62	8.70	6.92
MW-307	09/05/18	15.62	9.61	6.01
MW-307	12/17/18	15.62	8.62	7.00
MW-307	03/18/19	15.62	8.07	7.55
MW-307	05/15/19	15.62	8.69	6.93
MW-307	09/17/19	15.62	9.52	6.10
MW-307	12/09/19	15.62	9.39	6.23
MW-307	04/27/20	15.62	8.42	7.20
MW-307	06/29/20	15.62	8.83	6.79
MW-307	09/21/20	15.62	9.57	6.05
MW-307	12/14/20	15.62	8.72	6.90
MW-307	04/12/21	15.62	8.10	7.52
MW-307	06/14/21	15.62	8.80	6.82
MW-307	09/22/21	15.62	9.54	6.08
MW-307	12/14/21	15.62	7.32	8.30
MW-307	03/28/22	15.62	7.73	7.89
MW-307	06/27/22	15.62	8.61	7.01

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-307	09/20/22	15.62	9.17	6.45
MW-307	12/12/22	15.62	7.98	7.64
MW-307	03/27/23	15.62	8.25	7.37
MW-307	06/12/23	15.62	8.46	7.16
MW-307	09/11/23	15.62	8.50	7.12
MW-307	12/18/23	15.62	7.23	8.39
MW-307	03/11/24	15.62	7.25	8.37
MW-307	06/17/24	15.62	8.40	7.22
MW-307	09/18/24	15.62	9.35	6.27
MW-307	12/16/24	15.62	8.26	7.36
MW-308	11/27/12	15.59	7.90	7.69
MW-308	02/22/13	15.59	8.22	7.37
MW-308	05/16/13	15.59	8.80	6.79
MW-308	09/06/13	15.59	9.56	6.03
MW-308	11/07/13	15.59	9.45	6.14
MW-308	04/22/14	15.59	8.10	7.49
MW-308	11/04/14	15.59	8.40	7.19
MW-308	03/10/15	15.59	8.31	7.28
MW-308	05/15/15	15.59	9.01	6.58
MW-308	07/29/15	15.59	9.62	5.97
MW-308	12/10/15	15.59	6.15	9.44
MW-308	02/23/16	15.59	6.88	8.71
MW-308	05/03/16	15.59	8.20	7.39
MW-308	08/30/16	15.59	9.59	6.00
MW-308	12/14/16	15.59	7.56	8.03
MW-308	03/13/17	15.59	6.72	8.87
MW-308	05/16/17	15.59	7.69	7.90
MW-308	06/13/17	15.59	8.38	7.21
MW-308	08/22/17	15.59	9.29	6.30
MW-308	09/25/17	15.59	9.74	5.85
MW-308	12/04/17	15.59	7.90	7.69
MW-308	03/06/18	15.59	7.98	7.61
MW-308	06/12/18	15.59	8.78	6.81
MW-308	09/05/18	15.59	9.55	6.04
MW-308	12/17/18	15.59	8.38	7.21
MW-308	03/18/19	15.59	8.02	7.57
MW-308	05/15/19	15.59	8.65	6.94
MW-308	09/17/19	15.59	9.49	6.10
MW-308	12/09/19	15.59	9.34	6.25
MW-308	04/27/20	15.59	8.32	7.27

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-308	06/29/20	15.59	8.78	6.81
MW-308	09/21/20	15.59	9.53	6.06
MW-308	12/14/20	15.59	8.70	6.89
MW-308	04/12/21	15.59	8.00	7.59
MW-308	06/14/21	15.59	8.65	6.94
MW-308	09/22/21	15.59	9.50	6.09
MW-308	12/14/21	15.59	7.07	8.52
MW-308	03/28/22	15.59	7.43	8.16
MW-308	06/27/22	15.59	8.34	7.25
MW-308	09/20/22	15.59	8.85	6.74
MW-308	12/12/22	15.59	7.94	7.65
MW-308	03/27/23	15.59	8.18	7.41
MW-308	06/12/23	15.59	7.73	7.86
MW-308	09/11/23	15.59	8.22	7.37
MW-308	12/18/23	15.59	7.09	8.50
MW-308	03/11/24	15.59	6.98	8.61
MW-308	06/17/24	15.59	8.45	7.14
MW-308	09/18/24	15.59	9.29	6.30
MW-308	12/16/24	15.59	7.96	7.63
MW-309	11/27/12	12.67	5.41	7.26
MW-309	02/21/13	12.67	5.73	6.94
MW-309	05/16/13	12.67	6.21	6.46
MW-309	09/06/13	12.67	6.84	5.83
MW-309	11/07/13	12.67	6.76	5.91
MW-309	04/22/14	12.67	5.60	7.07
MW-309	07/24/14	12.67	6.47	6.20
MW-309	09/23/14	12.67	6.81	5.86
MW-309	11/04/14	12.67	5.81	6.86
MW-309	03/10/15	12.67	5.72	6.95
MW-309	05/15/15	12.67	6.18	6.49
MW-309	07/29/15	12.67	6.74	5.93
MW-309	12/10/15	12.67	4.59	8.08
MW-309	02/23/16	12.67	4.70	7.97
MW-309	05/03/16	12.67	5.60	7.07
MW-309	08/30/16	12.67	6.75	5.92
MW-309	12/12/16	12.67	5.12	7.55
MW-309	03/13/17	12.67	4.62	8.05
MW-309	06/13/17	12.67	5.76	6.91
MW-309	08/22/17	12.67	6.56	6.11
MW-309	12/04/17	12.67	5.52	7.15

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-309	03/06/18	12.67	5.40	7.27
MW-309	06/12/18	12.67	6.18	6.49
MW-309	09/05/18	12.67	6.72	5.95
MW-309	12/17/18	12.67	5.93	6.74
MW-309	03/18/19	12.67	5.41	7.26
MW-309	05/16/19	12.67	5.95	6.72
MW-309	09/17/19	12.67	6.74	5.93
MW-309	12/09/19	12.67	6.59	6.08
MW-309	04/27/20	12.67	5.74	6.93
MW-309	06/29/20	12.67	6.00	6.67
MW-309	09/21/20	12.67	6.75	5.92
MW-309	12/14/20	12.67	6.08	6.59
MW-309	04/12/21	12.67	5.42	7.25
MW-309	06/14/21	12.67	6.10	6.57
MW-309	09/22/21	12.67	6.72	5.95
MW-309	12/15/21	12.67	4.84	7.83
MW-309	03/28/22	12.67	5.03	7.64
MW-309	06/27/22	12.67	5.51	7.16
MW-309	09/19/22	12.67	7.20	5.47
MW-309	12/12/22	12.67	5.41	7.26
MW-309	03/27/23	12.67	5.62	7.05
MW-309	06/12/23	12.67	5.95	6.72
MW-309	09/11/23	12.67	6.86	5.81
MW-309	12/18/23	12.67	4.71	7.96
MW-309	03/11/24	12.67	4.67	8.00
MW-309	06/17/24	12.67	5.88	6.79
MW-309	09/18/24	12.67	6.50	6.17
MW-309	12/16/24	12.67	5.72	6.95
MW-310	11/27/12	13.51	6.42	7.09
MW-310	02/21/13	13.51	6.78	6.73
MW-310	05/16/13	13.51	7.20	6.31
MW-310	09/06/13	13.51	7.72	5.79
MW-310	11/07/13	13.51	7.61	5.90
MW-310	01/16/14	13.51	7.39	6.12
MW-310	04/23/14	13.51	6.64	6.87
MW-310	07/24/14	13.51	7.43	6.08
MW-310	09/23/14	13.51	7.73	5.78
MW-310	11/04/14	13.51	6.84	6.67
MW-310	03/10/15	13.51	6.78	6.73
MW-310	05/15/15	13.51	7.19	6.32

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-310	07/29/15	13.51	7.67	5.84
MW-310	12/10/15	13.51	5.80	7.71
MW-310	02/23/16	13.51	5.77	7.74
MW-310	05/03/16	13.51	6.70	6.81
MW-310	08/30/16	13.51	7.76	5.75
MW-310	12/14/16	13.51	6.32	7.19
MW-310	03/13/17	13.51	5.90	7.61
MW-310	05/16/17	13.51	6.39	7.12
MW-310	06/13/17	13.51	6.88	6.63
MW-310	08/22/17	13.51	7.56	5.95
MW-310	12/04/17	13.51	6.48	7.03
MW-310	03/06/18	13.51	6.52	6.99
MW-310	06/12/18	13.51	7.08	6.43
MW-310	09/05/18	13.51	7.57	5.94
MW-310	12/17/18	13.51	6.73	6.78
MW-310	03/18/19	13.51	5.28	8.23
MW-310	05/16/19	13.51	6.92	6.59
MW-310	09/17/19	13.51	7.59	5.92
MW-310	12/09/19	13.51	7.41	6.10
MW-310	04/27/20	13.51	6.60	6.91
MW-310	06/29/20	13.51	6.78	6.73
MW-310	09/21/20	13.51	7.57	5.94
MW-310	12/14/20	13.51	8.95	4.56
MW-310	04/12/21	13.51	6.41	7.10
MW-310	06/14/21	13.51	6.98	6.53
MW-310	09/22/21	13.51	7.62	5.89
MW-310	12/16/21	13.51	5.58	7.93
MW-310	03/28/22	13.51	5.85	7.66
MW-310	06/27/22	13.51	7.08	6.43
MW-310	09/20/22	13.51	8.08	5.43
MW-310	12/12/22	13.51	6.20	7.31
MW-310	03/27/23	13.51	5.91	7.60
MW-310	06/12/23	13.51	6.17	7.34
MW-310	09/11/23	13.51	7.15	6.36
MW-310	12/18/23	13.51	5.43	8.08
MW-310	03/11/24	13.51	5.43	8.08
MW-310	06/17/24	13.51	6.71	6.80
MW-310	09/18/24	13.51	7.33	6.18
MW-310	12/16/24	13.51	6.45	7.06
MW-311	11/05/14	14.91	8.03	6.88

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-311	03/10/15	14.91	8.02	6.89
MW-311	05/15/15	14.91	8.42	6.49
MW-311	07/29/15	14.91	8.83	6.08
MW-311	12/10/15	14.91	7.08	7.83
MW-311	02/23/16	14.91	6.97	7.94
MW-311	05/03/16	14.91	7.92	6.99
MW-311	08/30/16	14.91	8.92	5.99
MW-311	12/14/16	14.91	7.53	7.38
MW-311	03/13/17	14.91	7.10	7.81
MW-311	06/13/17	14.91	8.05	6.86
MW-311	08/22/17	14.91	8.70	6.21
MW-311	12/04/17	14.91	7.70	7.21
MW-311	03/06/18	14.91	7.74	7.17
MW-311	06/12/18	14.91	8.32	6.59
MW-311	09/05/18	14.91	8.78	6.13
MW-311	12/17/18	14.91	8.02	6.89
MW-311	03/18/19	14.91	7.63	7.28
MW-311	05/15/19	14.91	8.06	6.85
MW-311	09/17/19	14.91	8.78	6.13
MW-311	12/09/19	14.91	8.64	6.27
MW-311	04/27/20	14.91	7.94	6.97
MW-311	06/29/20	14.91	8.24	6.67
MW-311	09/21/20	14.91	8.80	6.11
MW-311	12/14/20	14.91	8.20	6.71
MW-311	04/12/21	14.91	7.68	7.23
MW-311	06/14/21	14.91	--	--
MW-311	09/22/21	14.91	8.79	6.12
MW-311	12/16/21	14.91	7.05	7.86
MW-311	03/28/22	14.91	7.25	7.66
MW-311	06/27/22	14.91	7.69	7.22
MW-311	09/20/22	14.91	9.23	5.68
MW-311	12/12/22	14.91	7.62	7.29
MW-311	03/27/23	14.91	7.77	7.14
MW-311	06/12/23	14.91	7.62	7.29
MW-311	09/11/23	14.91	8.58	6.33
MW-311	12/18/23	14.91	6.92	7.99
MW-311	03/11/24	14.91	6.81	8.10
MW-311	06/18/24	14.91	7.94	6.97
MW-311	09/18/24	14.91	8.57	6.34
MW-311	12/16/24	14.91	7.17	7.74

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-312	11/05/14	14.31	7.58	6.73
MW-312	03/10/15	14.31	7.56	6.75
MW-312	05/15/15	14.31	7.95	6.36
MW-312	07/29/15	14.31	8.34	5.97
MW-312	12/10/15	14.31	6.97	7.34
MW-312	02/23/16	14.31	6.68	7.63
MW-312	05/03/16	14.31	7.49	6.82
MW-312	08/30/16	14.31	8.44	5.87
MW-312	12/14/16	14.31	7.10	7.21
MW-312	03/13/17	14.31	6.75	7.56
MW-312	06/13/17	14.31	7.61	6.70
MW-312	08/22/17	14.31	8.22	6.09
MW-312	12/04/17	14.31	7.36	6.95
MW-312	03/06/18	14.31	7.32	6.99
MW-312	06/12/18	14.31	7.83	6.48
MW-312	09/05/18	14.31	8.31	6.00
MW-312	12/17/18	14.31	7.57	6.74
MW-312	03/18/19	14.31	7.23	7.08
MW-312	05/15/19	14.31	7.59	6.72
MW-312	09/17/19	14.31	8.26	6.05
MW-312	12/09/19	14.31	8.12	6.19
MW-312	04/27/20	14.31	7.52	6.79
MW-312	06/29/20	14.31	7.70	6.61
MW-312	09/21/20	14.31	8.30	6.01
MW-312	12/14/20	14.31	7.77	6.54
MW-312	04/12/21	14.31	7.31	7.00
MW-312	06/14/21	14.31	7.80	6.51
MW-312	09/22/21	14.31	8.25	6.06
MW-312	12/16/21	14.31	6.63	7.68
MW-312	03/28/22	14.31	5.90	8.41
MW-312	06/27/22	14.31	7.56	6.75
MW-312	09/20/22	14.31	7.11	7.20
MW-312	12/12/22	14.31	7.08	7.23
MW-312	03/27/23	14.31	7.46	6.85
MW-312	06/12/23	14.31	5.78	8.53
MW-312	09/11/23	14.31	7.96	6.35
MW-312	12/18/23	14.31	6.58	7.73
MW-312	03/11/24	14.31	6.50	7.81
MW-312	06/17/24	14.31	7.63	6.68
MW-312	09/18/24	14.31	8.08	6.23
MW-312	12/16/24	14.31	7.22	7.09

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-313	08/30/16	13.25	7.05	6.20
MW-313	12/14/16	13.25	5.63	7.62
MW-313	03/13/17	13.25	5.31	7.94
MW-313	06/13/17	13.25	6.10	7.15
MW-313	08/22/17	13.25	6.80	6.45
MW-313	12/04/17	13.25	5.77	7.48
MW-313	03/06/18	13.25	5.87	7.38
MW-313	06/12/18	13.25	6.38	6.87
MW-313	09/05/18	13.25	6.98	6.27
MW-313	12/17/18	13.25	6.04	7.21
MW-313	03/18/19	13.25	5.87	7.38
MW-313	05/15/19	13.25	6.21	7.04
MW-313	09/17/19	13.25	6.82	6.43
MW-313	12/09/19	13.25	6.74	6.51
MW-313	04/27/20	13.25	6.03	7.22
MW-313	06/29/20	13.25	6.36	6.89
MW-313	09/21/20	13.25	6.95	6.30
MW-313	12/14/20	13.25	6.27	6.98
MW-313	04/12/21	13.25	5.96	7.29
MW-313	06/14/21	13.25	6.27	6.98
MW-313	09/22/21	13.25	6.83	6.42
MW-313	12/16/21	13.25	5.11	8.14
MW-313	03/28/22	13.25	5.48	7.77
MW-313	06/27/22	13.25	5.87	7.38
MW-313	09/20/22	13.25	7.30	5.95
MW-313	12/12/22	13.25	5.48	7.77
MW-313	03/27/23	13.25	5.90	7.35
MW-313	06/12/23	13.25	6.15	7.10
MW-313	09/11/23	13.25	6.73	6.52
MW-313	12/18/23	13.25	5.58	7.67
MW-313	03/11/24	13.25	5.16	8.09
MW-313	06/17/24	13.25	6.32	6.93
MW-313	09/18/24	13.25	6.74	6.51
MW-313	12/16/24	13.25	5.52	7.73
MW-314	08/30/16	13.49	7.72	5.77
MW-314	12/14/16	13.49	6.77	6.72
MW-314	03/13/17	13.49	6.55	6.94
MW-314	06/13/17	13.49	7.08	6.41
MW-314	08/22/17	13.49	7.55	5.94

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-314	12/04/17	13.49	7.00	6.49
MW-314	03/06/18	13.49	6.99	6.50
MW-314	06/12/18	13.49	7.38	6.11
MW-314	09/05/18	13.49	7.66	5.83
MW-314	12/17/18	13.49	6.98	6.51
MW-314	03/18/19	13.49	6.92	6.57
MW-314	05/16/19	13.49	7.13	6.36
MW-314	09/17/19	13.49	Not Measured	Not Measured
MW-314	12/09/19	13.49	7.46	6.03
MW-314	04/27/20	13.49	7.19	6.30
MW-314	06/29/20	13.49	7.40	6.09
MW-314	09/22/20	13.49	7.53	5.96
MW-314	12/15/20	13.49	7.31	6.18
MW-314	04/13/21	13.49	7.13	6.36
MW-314	06/14/21	13.49	--	--
MW-314	09/22/21	13.49	--	--
MW-314	12/16/21	13.49	--	--
MW-314	03/28/22	13.49	6.68	6.81
MW-314	06/27/22	13.49	6.93	6.56
MW-314	09/20/22	13.49	8.41	5.08
MW-314	12/12/22	13.49	--	--
MW-314	03/27/23	13.49	6.75	6.74
MW-314	06/14/23	13.49	7.00	6.49
MW-314	09/11/23	13.49	--	--
MW-314	12/20/23	13.49	5.60	7.89
MW-314	03/11/24	13.49	--	--
MW-314	06/19/24	13.49	7.29	6.20
MW-314	09/18/24	13.49	--	--
MW-314	12/17/24	13.49	6.67	6.82
MW-315	08/30/16	14.61	8.56	6.05
MW-315	12/14/16	14.61	7.26	7.35
MW-315	03/13/17	14.61	6.93	7.68
MW-315	06/13/17	14.61	7.72	6.89
MW-315	08/22/17	14.61	8.32	6.29
MW-315	12/04/17	14.61	7.45	7.16
MW-315	03/06/18	14.61	7.47	7.14
MW-315	06/12/18	14.61	7.98	6.63
MW-315	09/05/18	14.61	8.46	6.15
MW-315	12/17/18	14.61	7.64	6.97
MW-315	03/18/19	14.61	7.43	7.18

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-315	05/15/19	14.61	7.73	6.88
MW-315	09/17/19	14.61	9.43	5.18
MW-315	12/09/19	14.61	8.21	6.40
MW-315	04/27/20	14.61	7.64	6.97
MW-315	06/29/20	14.61	7.95	6.66
MW-315	09/21/20	14.61	8.41	6.20
MW-315	12/14/20	14.61	7.77	6.84
MW-315	04/12/21	14.61	7.52	7.09
MW-315	06/14/21	14.61	7.90	6.71
MW-315	09/22/21	14.61	8.34	6.27
MW-315	12/16/21	14.61	6.76	7.85
MW-315	03/28/22	14.61	7.03	7.58
MW-315	06/27/22	14.61	7.42	7.19
MW-315	09/20/22	14.61	9.08	5.53
MW-315	12/12/22	14.61	7.08	7.53
MW-315	03/27/23	14.61	7.43	7.18
MW-315	06/12/23	14.61	7.61	7.00
MW-315	09/11/23	14.61	8.10	6.51
MW-315	12/18/23	14.61	6.74	7.87
MW-315	03/11/24	14.61	6.69	7.92
MW-315	06/17/24	14.61	7.77	6.84
MW-315	09/18/24	14.61	8.22	6.39
MW-315	12/16/24	14.61	7.62	6.99
SH-04	07/08/93	12.92	9.94	2.98
SH-04	08/03/93	12.92	10.15	2.77
SH-04	09/08/93	12.92	10.50	2.42
SH-04	10/08/93	12.92	10.72	2.20
SH-04	11/05/93	12.92	10.88	2.04
SH-04	12/03/93	12.92	10.78	2.14
SH-04	01/05/94	12.92	10.20	2.72
SH-04	02/04/94	12.92	10.12	2.80
SH-04	08/28/95	12.92	10.15	2.77
SH-04	09/27/95	12.92	10.37	2.55
SH-04	04/27/99	12.92	8.55	4.37
SH-04	07/14/99	12.92	7.63	5.29
SH-04	10/18/99	12.92	10.58	2.34
SH-04	01/11/00	12.92	9.06	3.86
SH-04	04/05/00	12.92	8.94	3.98
SH-04	07/18/00	12.92	9.96	2.96
SH-04	10/02/00	12.92	10.62	2.30

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
SH-04	01/22/01	12.92	10.13	2.79
SH-04	07/23/01	12.92	6.98	5.94
SH-04	10/16/01	12.92	12.20	0.72
SH-04	04/23/02	12.92	9.91	3.01
SH-04	07/18/02	12.92	10.74	2.18
SH-04	10/23/02	12.92	11.27	1.65
SH-04	01/28/03	12.92	9.73	3.19
SH-04	04/15/03	12.92	9.69	3.23
SH-04	07/17/03	12.92	10.78	2.14
SH-04	10/15/03	12.92	11.19	1.73
SH-04	01/13/04	12.92	9.61	3.31
SH-04	04/19/04	16.62	10.05	6.57
SH-04	07/27/04	16.62	10.90	5.72
SH-04	10/18/04	16.62	10.89	5.73
SH-04	01/24/05	16.62	10.03	6.59
SH-04	04/18/05	16.62	10.03	6.59
SH-04	07/12/05	16.62	10.51	6.11
SH-04	10/18/05	16.62	11.01	5.61
SH-04	01/25/06	16.62	8.98	7.64
SH-04	10/11/06	16.62	11.06	5.56
SH-04	11/20/08	16.62	10.40	6.22
SH-04	04/08/09	16.62	10.01	6.61
SH-04	11/16/09	16.62	10.09	6.53
SH-04	04/27/10	16.62	9.33	7.29
SH-04	10/25/10	16.62	10.23	6.39
SH-04	10/27/11	16.62	10.68	5.94
SH-04	03/01/12	16.62	9.63	6.99
SH-04	05/30/12	16.62	9.56	7.06
SH-04	06/11/12	16.62	9.55	7.07
SH-04	08/23/12	16.62	9.95	6.67
SH-04	09/25/12	16.62	10.21	6.41
SH-04	11/25/12	16.62	8.77	7.85
SH-04	05/16/13	16.62	8.64	7.98
SH-04	11/04/13	16.62	8.75	7.87
SH-04	04/22/14	16.62	9.00	7.62
SH-04	11/06/14	16.62	9.23	7.39
SH-04	05/21/15	16.62	9.15	7.47
SH-04	12/08/15	16.62	8.80	7.82
SH-04	12/14/16	16.62	8.34	8.28
SH-04	06/13/17	16.62	8.75	7.87
SH-04	12/04/17	16.62	9.33	7.29

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
SH-04	06/12/18	16.62	9.39	7.23
SH-04	12/17/18	16.62	9.65	6.97
SH-04	05/16/19	16.62	9.72	6.90
SH-04	12/09/19	16.62	10.50	6.12
SH-04	06/29/20	16.62	9.89	6.73
SH-04	12/14/20	16.62	9.90	6.72
SH-04	04/12/21	16.62	9.18	7.44
SH-04	06/14/21	16.62	9.60	7.02
SH-04	12/15/21	16.62	8.79	7.83
SH-04	04/18/22	16.62	9.15	7.47
SH-04	06/27/22	16.62	9.33	7.29
SH-04	12/12/22	16.62	9.20	7.42
SH-04	06/12/23	16.62	8.95	7.67
SH-04	12/19/23	16.62	8.05	8.57
SH-04	06/17/24	16.62	9.71	6.91
SH-04	12/16/24	16.62	9.72	6.90
TES-MW-1	04/06/93	13.10	8.79	4.31
TES-MW-1	05/13/93	13.10	8.61	4.49
TES-MW-1	06/10/93	13.10	8.63	4.47
TES-MW-1	07/08/93	13.10	8.98	4.12
TES-MW-1	08/03/93	13.10	9.28	3.82
TES-MW-1	09/08/93	13.10	8.66	4.44
TES-MW-1	10/08/93	13.10	9.98	3.12
TES-MW-1	11/05/93	13.10	10.20	2.90
TES-MW-1	12/03/93	13.10	10.17	2.93
TES-MW-1	01/05/94	13.10	9.30	3.80
TES-MW-1	02/04/94	13.10	9.19	3.91
TES-MW-1	08/28/95	13.10	9.26	3.84
TES-MW-1	09/27/95	13.10	9.53	3.57
TES-MW-1	04/27/99	13.10	7.49	5.61
TES-MW-1	07/14/99	13.10	8.90	4.20
TES-MW-1	10/18/99	13.10	9.88	3.22
TES-MW-1	01/11/00	13.10	7.59	5.51
TES-MW-1	04/05/00	13.10	8.20	4.90
TES-MW-1	10/02/00	13.10	9.99	3.11
TES-MW-1	01/22/01	13.10	9.65	3.45
TES-MW-1	07/23/01	13.10	10.77	2.33
TES-MW-1	10/16/01	13.10	11.93	1.17
TES-MW-1	04/23/02	13.10	9.32	3.78
TES-MW-1	07/18/02	13.10	10.34	2.76

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TES-MW-1	10/23/02	13.10	10.92	2.18
TES-MW-1	01/30/03	13.10	8.43	4.67
TES-MW-1	04/15/03	13.10	8.89	4.21
TES-MW-1	07/17/03	13.10	10.41	2.69
TES-MW-1	10/15/03	13.10	10.82	2.28
TES-MW-1	01/13/04	13.10	8.82	4.28
TES-MW-1	04/19/04	16.15	9.76	6.39
TES-MW-1	07/27/04	16.15	10.48	5.67
TES-MW-1	10/18/04	16.15	10.27	5.88
TES-MW-1	01/24/05	16.15	9.26	6.89
TES-MW-1	04/18/05	16.15	9.46	6.69
TES-MW-1	07/12/05	16.15	10.10	6.05
TES-MW-1	10/18/05	16.15	10.70	5.45
TES-MW-1	01/25/06	16.15	8.17	7.98
TES-MW-1	04/25/06	16.15	9.33	6.82
TES-MW-1	10/11/06	16.15	10.66	5.49
TES-MW-1	11/18/08	16.15	9.85	6.30
TES-MW-1	11/16/09	16.15	9.35	6.80
TES-MW-1	10/26/10	16.15	9.66	6.49
TES-MW-1	10/27/11	16.15	10.42	5.73
TES-MW-1	05/30/12	16.15	9.37	6.78
TES-MW-1	06/13/12	16.15	9.43	6.72
TES-MW-1	06/26/12	16.15	10.31	5.84
TES-MW-1	11/27/12	16.15	8.62	7.53
TES-MW-1	05/16/13	16.15	9.46	6.69
TES-MW-1	11/07/13	16.15	10.06	6.09
TES-MW-1	04/22/14	16.15	8.70	7.45
TES-MW-1	11/04/14	16.15	9.07	7.08
TES-MW-1	03/10/15	16.15	8.92	7.23
TES-MW-1	05/15/15	16.15	9.40	6.75
TES-MW-1	07/29/15	16.15	10.08	6.07
TES-MW-1	12/10/15	16.15	7.14	9.01
TES-MW-1	02/23/16	16.15	7.58	8.57
TES-MW-1	05/03/16	16.15	8.80	7.35
TES-MW-1	08/30/16	16.15	9.86	6.29
TES-MW-1	12/14/16	16.15	8.30	7.85
TES-MW-1	03/13/17	16.15	7.57	8.58
TES-MW-1	06/13/17	16.15	9.01	7.14
TES-MW-1	08/22/17	16.15	9.90	6.25
TES-MW-1	12/04/17	16.15	8.75	7.40
TES-MW-1	03/06/18	16.15	8.61	7.54

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TES-MW-1	06/12/18	16.15	9.56	6.59
TES-MW-1	09/05/18	16.15	10.17	5.98
TES-MW-1	12/17/18	16.15	9.08	7.07
TES-MW-1	03/18/19	16.15	8.73	7.42
TES-MW-1	05/15/19	16.15	9.34	6.81
TES-MW-1	09/17/19	16.15	10.19	5.96
TES-MW-1	12/09/19	16.15	9.99	6.16
TES-MW-1	04/27/20	16.15	9.04	7.11
TES-MW-1	06/29/20	16.15	9.50	6.65
TES-MW-1	09/21/20	16.15	10.23	5.92
TES-MW-1	12/14/20	16.15	9.43	6.72
TES-MW-1	04/12/21	16.15	8.79	7.36
TES-MW-1	06/14/21	16.15	9.35	6.80
TES-MW-1	09/22/21	16.15	10.15	6.00
TES-MW-1	12/14/21	16.15	7.87	8.28
TES-MW-1	03/28/22	16.15	8.19	7.96
TES-MW-1	06/27/22	16.15	9.18	6.97
TES-MW-1	09/19/22	16.15	10.50	5.65
TES-MW-1	12/12/22	16.15	10.35	5.80
TES-MW-1	03/27/23	16.15	8.10	8.05
TES-MW-1	06/12/23	16.15	8.86	7.29
TES-MW-1	09/11/23	16.15	9.36	6.79
TES-MW-1	12/19/23	16.15	7.92	8.23
TES-MW-1	03/11/24	16.15	7.68	8.47
TES-MW-1	06/17/24	16.15	9.21	6.94
TES-MW-1	09/18/24	16.15	9.92	6.23
TES-MW-1	12/16/24	16.15	8.78	7.37
TX-03	04/06/93	9.58	5.57	4.01
TX-03	06/10/93	9.58	5.50	4.08
TX-03	07/08/93	9.58	5.81	3.77
TX-03	08/03/93	9.58	6.08	3.50
TX-03	09/08/93	9.58	6.42	3.16
TX-03	10/08/93	9.58	6.74	2.84
TX-03	11/05/93	9.58	6.91	2.67
TX-03	12/03/93	9.58	6.90	2.68
TX-03	01/05/94	9.58	6.16	3.42
TX-03	02/04/94	9.58	Not Measured	Not Measured
TX-03	08/28/95	9.58	6.16	3.42
TX-03	09/27/95	9.58	Not Measured	Not Measured
TX-03	04/27/99	9.58	4.68	4.90

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TX-03	07/14/99	9.58	5.87	3.71
TX-03	10/18/99	9.58	6.71	2.87
TX-03	01/11/00	9.58	5.30	4.28
TX-03	04/05/00	9.58	5.31	4.27
TX-03	07/18/00	9.58	5.98	3.60
TX-03	10/02/00	9.58	6.65	2.93
TX-03A	04/23/02	9.58	6.25	3.33
TX-03A	07/18/02	9.58	6.75	2.83
TX-03A	10/23/02	9.58	7.15	2.43
TX-03A	01/28/03	9.58	5.40	4.18
TX-03A	04/15/03	9.58	5.76	3.82
TX-03A	07/17/03	9.58	6.76	2.82
TX-03A	10/15/03	9.58	7.05	2.53
TX-03A	01/13/04	9.58	5.46	4.12
TX-03A	04/19/04	12.26	6.22	6.04
TX-03A	07/27/04	12.26	6.78	5.48
TX-03A	10/18/04	12.26	6.69	5.57
TX-03A	01/24/05	12.26	5.76	6.50
TX-03A	04/18/05	12.26	5.91	6.35
TX-03A	07/12/05	12.26	6.41	5.85
TX-03A	10/18/05	12.26	6.92	5.34
TX-03A	01/25/06	12.26	4.82	7.44
TX-03A	04/25/06	12.26	5.82	6.44
TX-03A	10/11/06	12.26	6.91	5.35
TX-03A	11/20/08	12.26	6.14	6.12
TX-03A	04/08/09	12.26	5.90	6.36
TX-03A	11/16/09	12.26	5.80	6.46
TX-03A	04/27/10	12.26	5.53	6.73
TX-03A	10/25/10	12.26	6.20	6.06
TX-03A	10/27/11	12.26	6.74	5.52
TX-03A	03/01/12	12.26	5.86	6.40
TX-03A	06/13/12	12.26	5.97	6.29
TX-03A	09/26/12	12.26	6.67	5.59
TX-03A	11/27/12	12.26	5.21	7.05
TX-03A	02/21/13	12.26	5.55	6.71
TX-03A	05/16/13	12.26	6.01	6.25
TX-03A	09/06/13	12.26	6.56	5.70
TX-03A	11/07/13	12.26	6.45	5.81
TX-03A	04/22/14	12.26	5.45	6.81
TX-03A	07/24/14	12.26	6.28	5.98

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TX-03A	09/23/14	12.26	6.57	5.69
TX-03A	11/04/14	12.26	5.64	6.62
TX-03A	03/10/15	12.26	5.57	6.69
TX-03A	05/15/15	12.26	5.98	6.28
TX-03A	07/29/15	12.26	6.51	5.75
TX-03A	12/10/15	12.26	4.48	7.78
TX-03A	02/23/16	12.26	4.44	7.82
TX-03A	05/03/16	12.26	5.46	6.80
TX-03A	08/30/16	12.26	6.59	5.67
TX-03A	12/14/16	12.26	5.04	7.22
TX-03A	03/13/17	12.26	4.56	7.70
TX-03A	05/16/17	12.26	5.12	7.14
TX-03A	06/13/17	12.26	5.63	6.63
TX-03A	08/22/17	12.26	6.37	5.89
TX-03A	12/04/17	12.26	5.20	7.06
TX-03A	03/27/18	12.26	5.42	6.84
TX-03A	06/12/18	12.26	6.33	5.93
TX-03A	09/05/18	12.26	6.43	5.83
TX-03A	12/17/18	12.26	5.61	6.65
TX-03A	03/18/19	12.26	5.12	7.14
TX-03A	05/16/19	12.26	5.56	6.70
TX-03A	09/17/19	12.26	6.42	5.84
TX-03A	12/09/19	12.26	6.27	5.99
TX-03A	04/27/20	12.26	5.45	6.81
TX-03A	06/29/20	12.26	5.65	6.61
TX-03A	09/21/20	12.26	6.43	5.83
TX-03A	12/15/20	12.26	5.70	6.56
TX-03A	04/12/21	12.26	5.12	7.14
TX-03A	06/14/21	12.26	5.72	6.54
TX-03A	09/23/21	12.26	6.35	5.91
TX-03A	12/16/21	12.26	--	--
TX-03A	03/28/22	12.26	4.90	7.36
TX-03A	06/27/22	12.26	5.17	7.09
TX-03A	09/21/22	12.26	6.75	5.51
TX-03A	12/12/22	12.26	5.05	7.21
TX-03A	03/27/23	12.26	4.97	7.29
TX-03A	06/14/23	12.26	5.42	6.84
TX-03A	09/12/23	12.26	6.84	5.42
TX-03A	12/20/23	12.26	4.45	7.81
TX-03A	03/11/24	12.26	4.28	7.98
TX-03A	06/19/24	12.26	5.45	6.81

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TX-03A	09/19/24	12.26	6.19	6.07
TX-03A	12/17/24	12.26	5.18	7.08
TX-04	04/06/93	14.36	9.97	4.39
TX-04	05/13/93	14.36	9.83	4.53
TX-04	06/10/93	14.36	9.87	4.49
TX-04	07/08/93	14.36	10.24	4.12
TX-04	08/03/93	14.36	10.54	3.82
TX-04	09/08/93	14.36	10.96	3.40
TX-04	10/08/93	14.36	11.28	3.08
TX-04	11/05/93	14.36	11.51	2.85
TX-04	12/03/93	14.36	11.43	2.93
TX-04	01/05/94	14.36	10.60	3.76
TX-04	02/04/94	14.36	10.45	3.91
TX-04	08/28/95	14.36	10.64	3.72
TX-04	09/27/95	14.36	10.88	3.48
TX-04	04/27/99	14.36	8.57	5.79
TX-04	07/14/99	14.36	10.01	4.35
TX-04	10/18/99	14.36	11.12	3.24
TX-04	01/11/00	14.36	9.06	5.30
TX-04	04/05/00	14.36	9.04	5.32
TX-04	07/18/00	14.36	10.41	3.95
TX-04	10/02/00	14.36	11.23	3.13
TX-04	01/22/01	14.36	10.70	3.66
TX-04	07/23/01	14.36	11.50	2.86
TX-04	10/16/01	14.36	9.57	4.79
TX-04	04/23/02	14.36	6.81	7.55
TX-04	07/18/02	14.36	11.33	3.03
TX-04	10/23/02	14.36	11.79	2.57
TX-04	01/28/03	14.36	9.51	4.85
TX-04	04/15/03	14.36	9.55	4.81
TX-04	07/17/03	14.36	11.28	3.08
TX-04	10/15/03	14.36	11.93	2.43
TX-04	01/13/04	14.36	9.54	4.82
TX-04	04/19/04	17.65	10.50	7.15
TX-04	07/27/04	17.65	11.46	6.19
TX-04	10/18/04	17.65	11.46	6.19
TX-04	01/24/05	17.65	10.16	7.49
TX-04	04/18/05	17.65	10.35	7.30
TX-04	07/12/05	17.65	11.04	6.61
TX-04	10/18/05	17.65	11.79	5.86

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TX-04	01/25/06	17.65	8.43	9.22
TX-04	04/25/06	17.65	10.22	7.43
TX-04	10/11/06	17.65	11.77	5.88
TX-04	11/18/08	17.65	10.84	6.81
TX-04	11/16/09	17.65	10.39	7.26
TX-04	10/25/10	17.65	10.77	6.88
TX-04	10/26/11	17.65	11.47	6.18
TX-04	11/26/12	17.65	9.26	8.39
TX-04	11/04/13	17.65	10.98	6.67
TX-04	11/06/14	17.65	10.05	7.60
TX-04	02/27/15	17.65	9.37	8.28
TX-04	12/08/15	17.65	9.27	8.38
TX-04	12/14/16	17.65	8.97	8.68
TX-04	12/04/17	17.65	9.64	8.01
TX-04	12/17/18	17.65	10.39	7.26
TX-04	12/09/19	17.65	11.22	6.43
TX-04	12/14/20	17.65	10.45	7.20
TX-04	04/12/21	17.65	9.63	8.02
TX-04	12/15/21	17.65	8.90	8.75
TX-04	12/12/22	17.65	9.81	7.84
TX-04	12/18/23	17.65	8.07	9.58
TX-04	12/16/24	17.65	10.15	7.50
TX-06	04/06/93	8.58	3.85	4.73
TX-06	06/10/93	8.58	3.71	4.87
TX-06	09/08/93	8.58	4.96	3.62
TX-06	10/08/93	8.58	5.35	3.23
TX-06	11/05/93	8.58	5.54	3.04
TX-06	12/03/93	8.58	5.37	3.21
TX-06	01/05/94	8.58	4.48	4.10
TX-06	02/04/94	8.58	4.43	4.15
TX-06	08/28/95	8.58	4.75	3.83
TX-06	09/27/95	8.58	5.78	2.80
TX-06	04/27/99	8.58	2.62	5.96
TX-06	07/14/99	8.58	4.05	4.53
TX-06	10/18/99	8.58	5.19	3.39
TX-06	01/11/00	8.58	2.98	5.60
TX-06	04/05/00	8.58	3.16	5.42
TX-06	07/18/00	8.58	4.25	4.33
TX-06	10/02/00	8.58	5.23	3.35
TX-06	04/25/06	8.58	3.88	4.70

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TX-06A	04/23/02	8.58	3.98	4.60
TX-06A	07/18/02	8.58	4.14	4.44
TX-06A	10/23/02	8.58	5.98	2.60
TX-06A	01/28/03	8.58	3.40	5.18
TX-06A	04/15/03	8.58	3.57	5.01
TX-06A	07/17/03	8.58	5.24	3.34
TX-06A	10/15/03	8.58	6.01	2.57
TX-06A	01/13/04	8.58	3.36	5.22
TX-06A	04/19/04	11.67	4.41	7.26
TX-06A	07/27/04	11.67	5.39	6.28
TX-06A	10/18/04	11.67	5.23	6.44
TX-06A	01/24/05	11.67	3.66	8.01
TX-06A	04/18/05	11.67	3.89	7.78
TX-06A	07/12/05	11.67	4.78	6.89
TX-06A	10/18/05	11.67	5.63	6.04
TX-06A	01/25/06	11.67	3.00	8.67
TX-06A	04/25/06	11.67	5.54	6.13
TX-06A	11/18/08	11.67	4.56	7.11
TX-06A	11/16/09	11.67	3.99	7.68
TX-06A	10/28/10	11.67	4.47	7.20
TX-06A	10/25/11	11.67	5.40	6.27
TX-06A	11/25/12	11.67	3.03	8.64
TX-06A	11/07/13	11.67	4.87	6.80
TX-06A	11/06/14	11.67	4.03	7.64
TX-06A	12/08/15	11.67	2.80	8.87
TX-06A	12/14/16	11.67	3.26	8.41
TX-06A	12/04/17	11.67	3.36	8.31
TX-06A	12/17/18	11.67	4.18	7.49
TX-06A	12/09/19	11.67	5.20	6.47
TX-06A	12/14/20	11.67	4.32	7.35
TX-06A	04/12/21	11.67	3.91	7.76
TX-06A	12/15/21	11.67	2.90	8.77
TX-06A	12/12/22	11.67	7.46	4.21
TX-06A	12/19/23	11.67	2.45	9.22
TX-06A	12/16/24	11.67	3.17	8.50

Table 3

Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Gauge Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL

Notes:

= Indicates data collected during this progress report period

-- = Survey data not available

AMSL = above mean sea level

ft = feet

TOC = Top of monitoring well casing

Table 4

Performance Product Monitoring Data
Shell Harbor Island Terminal
Seattle, Washington

Date	MW-204			MW-208			MW-209			MW-210			MW-211			MW-212		
	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness
06/01/04	10.68	NP	NP	5.01	NP	NP	—	—	—	6.20	6.15	0.05	5.33	NP	NP	5.60	NP	NP
10/02/04	10.12	NP	NP	4.77	NP	NP	—	—	—	7.09	6.31	0.78	5.04	NP	NP	4.89	NP	NP
10/03/04	10.50	NP	NP	5.98	NP	NP	—	—	—	7.26	6.71	0.55	5.86	NP	NP	6.06	NP	NP
04/19/04	10.95	NP	NP	6.29	NP	NP	—	—	—	6.99	NP	NP	4.90	NP	NP	5.13	NP	NP
05/13/04	11.24	NP	NP	6.07	NP	NP	—	—	—	6.95	NP	NP	4.78	NP	NP	4.80	NP	NP
08/06/04	11.35	NP	NP	4.76	NP	NP	—	—	—	5.52	NP	NP	4.64	NP	NP	4.41	NP	NP
06/07/04	11.55	NP	NP	5.06	NP	NP	—	—	—	6.98	NP	NP	4.55	NP	NP	4.61	NP	NP
11/08/04	11.79	NP	NP	6.51	NP	NP	—	—	—	7.22	NP	NP	7.18	NP	NP	7.27	NP	NP
09/09/04	11.79	NP	NP	6.66	NP	NP	—	—	—	7.19	7.18	0.01	7.16	NP	NP	7.14	7.14	Trace
06/10/04	11.76	NP	NP	6.58	NP	NP	—	—	—	7.18	NP	NP	7.11	NP	NP	7.08	NP	NP
09/11/04	11.61	NP	NP	6.17	NP	NP	—	—	—	7.04	7.01	0.03	6.93	NP	NP	6.95	6.95	Trace
10/12/04	—	—	—	3.91	NP	NP	—	—	—	6.96	NP	NP	5.31	NP	NP	5.00	NP	NP
11/01/05	11.04	NP	NP	3.80	NP	NP	—	—	—	5.78	NP	NP	4.85	4.85	Trace	4.71	NP	NP
11/02/05	10.81	10.81	Trace	4.47	NP	NP	—	—	—	6.19	6.18	0.01	5.71	NP	NP	5.68	NP	NP
11/03/05	11.18	NP	NP	5.48	NP	NP	—	—	—	6.73	NP	NP	6.56	6.56	Trace	6.50	NP	NP
04/18/05	10.98	NP	NP	5.97	NP	NP	—	—	—	6.95	6.81	0.14	6.18	NP	NP	6.42	NP	NP
05/25/05	10.98	NP	NP	4.78	NP	NP	—	—	—	6.12	NP	NP	5.73	NP	NP	5.78	NP	NP
09/06/05	11.15	NP	NP	5.74	NP	NP	—	—	—	6.68	6.67	0.01	6.11	NP	NP	6.33	NP	NP
11/07/05	11.40	NP	NP	6.12	NP	NP	—	—	—	7.13	NP	NP	6.32	NP	NP	6.65	NP	NP
08/19/05	11.64	NP	NP	6.25	NP	NP	—	—	—	6.91	NP	NP	6.50	NP	NP	7.85	NP	NP
09/16/05	11.83	NP	NP	6.51	NP	NP	—	—	—	7.32	NP	NP	6.85	NP	NP	7.02	NP	NP
10/18/05	11.98	NP	NP	6.06	NP	NP	—	—	—	6.93	NP	NP	6.51	NP	NP	6.54	NP	NP
09/11/05	11.67	NP	NP	4.43	NP	NP	—	—	—	6.34	NP	NP	4.86	NP	NP	4.10	NP	NP
05/12/05	11.48	NP	NP	4.65	NP	NP	—	—	—	6.57	NP	NP	—	—	—	—	—	—
01/26/06	9.96	NP	NP	4.72	NP	NP	—	—	—	5.83	NP	NP	6.65	NP	NP	3.95	NP	NP
02/28/06	10.24	NP	NP	5.34	NP	NP	—	—	—	6.28	NP	NP	4.53	NP	NP	4.88	NP	NP
03/24/06	10.57	NP	NP	5.34	NP	NP	—	—	—	4.20	NP	NP	5.74	NP	NP	4.94	NP	NP
04/18/06	10.78	NP	NP	5.41	NP	NP	—	—	—	6.46	6.45	0.01	5.81	NP	NP	5.28	NP	NP
05/18/06	11.06	NP	NP	6.02	NP	NP	—	—	—	7.01	NP	NP	6.32	NP	NP	5.56	NP	NP
06/19/06	11.26	NP	NP	5.98	NP	NP	—	—	—	6.91	NP	NP	6.23	NP	NP	5.48	NP	NP
08/28/06	11.74	NP	NP	6.45	NP	NP	—	—	—	7.25	NP	NP	6.63	NP	NP	5.68	NP	NP
09/15/06	11.83	NP	NP	6.21	NP	NP	—	—	—	7.02	NP	NP	6.54	NP	NP	5.53	NP	NP
10/11/06	11.96	NP	NP	6.10	NP	NP	—	—	—	6.95	NP	NP	5.93	NP	NP	5.48	NP	NP
11/29/06	—	—	—	4.19	NP	NP	—	—	—	5.83	NP	NP	5.39	NP	NP	4.27	NP	NP
12/13/06	10.53	NP	NP	3.60	NP	NP	—	—	—	5.58	5.58	0.01	4.39	NP	NP	2.81	NP	NP
01/31/07	10.17	NP	NP	3.98	NP	NP	—	—	—	6.32	6.09	0.23	5.58	NP	NP	4.26	NP	NP
02/26/07	10.56	NP	NP	4.55	NP	NP	—	—	—	6.04	NP	NP	5.24	NP	NP	4.12	NP	NP
03/20/07	10.68	NP	NP	4.68	NP	NP	—	—	—	6.42	6.41	0.01	5.68	NP	NP	4.82	NP	NP
04/26/07	10.99	NP	NP	—	NP	NP	—	—	—	—	NP	NP	6.15	NP	NP	4.97	4.96	0.01
05/25/07	11.29	NP	NP	5.68	NP	NP	—	—	—	7.05	NP	NP	6.60	NP	NP	5.11	NP	NP

Table 4

Performance Product Monitoring Data
Shell Harbor Island Terminal
Seattle, Washington

Date	MW-204			MW-208			MW-209			MW-210			MW-211			MW-212		
	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness
06/15/07	11.50	NP	NP	5.93	NP	NP	—	—	—	7.04	NP	NP	6.35	NP	NP	5.03	NP	NP
07/19/07	11.70	NP	NP	5.82	5.81	0.01	—	—	—	6.81	6.80	0.01	6.34	NP	NP	5.29	5.28	0.01
08/17/07	11.81	NP	NP	5.90	NP	NP	—	—	—	6.75	NP	NP	6.22	NP	NP	5.35	NP	NP
09/11/07	—	NP	NP	6.24	NP	NP	—	—	—	7.28	7.28	<.01	6.68	6.68	<.01	5.73	NP	NP
10/29/07	11.80	NP	NP	5.60	NP	NP	—	—	—	6.68	NP	NP	5.25	NP	NP	6.03	NP	NP
11/12/07	11.84	NP	NP	5.56	NP	NP	—	—	—	6.58	6.57-6.58	<.01	5.82	NP	NP	4.83	—	—
12/26/07	10.84	NP	NP	4.09	NP	NP	—	—	—	5.85	5.84	<.01	4.84	4.85	<.01	4.44	4.43	<.01
01/11/08	10.64	NP	NP	3.84	NP	NP	—	—	—	5.26	5.25	0.01	4.13	4.12	<.01	3.64	3.63	<.01
02/13/08	10.65	NP	NP	4.58	NP	NP	—	—	—	6.60	6.25	0.35	5.75	NP	NP	4.84	NP	NP
03/14/08	11.05	NP	NP	5.37	NP	NP	—	—	—	6.31	NP	NP	5.65	NP	NP	5.01	NP	NP
04/18/08	10.78	NP	NP	5.41	NP	NP	—	—	—	6.46	6.45	0.01	5.81	NP	NP	5.28	NP	NP
05/05/08	11.39	NP	NP	5.84	NP	NP	—	—	—	7.06	7.05	0.01	6.39	NP	NP	5.49	NP	NP
05/20/08	11.53	NP	NP	5.84	NP	NP	—	—	—	7.03	7.02	0.01	6.69	NP	NP	5.52	NP	NP
06/30/08	11.67	NP	NP	5.85	NP	NP	—	—	—	dry	NP	NP	6.35	6.34	0.01	5.45	5.44	0.01
07/10/08	11.70	NP	NP	5.70	NP	NP	—	—	—	6.83	6.80	0.03	6.23	NP	NP	5.24	NP	NP
08/13/08	11.75	NP	NP	5.61	NP	NP	—	—	—	6.75	NP	NP	6.25	NP	NP	6.17	NP	NP
09/02/08	11.82	NP	NP	5.86	NP	NP	—	—	—	6.98	NP	NP	6.40	NP	NP	5.71	NP	NP
10/10/08	11.82	NP	NP	7.11	NP	NP	—	—	—	5.83	NP	NP	6.59	NP	NP	5.83	NP	NP
11/10/08	10.02	NP	NP	4.68	NP	NP	—	—	—	6.40	NP	NP	5.61	NP	NP	5.21	NP	NP
12/08/08	11.48	NP	NP	5.53	NP	NP	—	—	—	6.70	6.52	0.18	5.82	NP	Sheen	5.17	NP	Sheen
01/07/09	11.00	NP	NP	3.93	NP	NP	—	—	—	5.32	NP	Sheen	4.51	NP	Sheen	4.41	NP	Sheen
02/17/09	11.60	NP	NP	5.20	NP	NP	—	—	—	6.40	NP	Sheen	5.72	NP	Sheen	5.21	NP	Sheen
03/06/09	11.21	NP	NP	4.67	NP	NP	—	—	—	6.02	5.59	0.43	4.45	NP	Sheen	4.83	NP	Sheen
04/07/09	—	—	—	—	—	—	—	—	—	6.98	6.96	0.02	—	—	—	—	—	—
07/09/09	11.55	NP	NP	—	—	—	—	—	—	6.90	NP	Sheen	6.34	NP	Sheen	5.56	NP	Sheen
10/20/09	11.75	NP	NP	4.90	NP	NP	—	—	—	6.28	NP	Sheen	5.63	NP	Sheen	4.91	NP	Sheen
01/05/10	10.98	NP	NP	3.60	NP	NP	—	—	—	5.78	NP	Sheen	3.55	NP	NP	3.30	NP	NP
04/26/10	10.7	NP	NP	5.04	NP	NP	—	—	—	6.29	6.28	0.01	5.76	NP	NP	5.05	NP	NP
07/22/10	11.44	NP	NP	5.83	NP	NP	—	—	—	10.02	NP	Sheen	6.74	NP	NP	5.37	NP	Sheen
10/20/10	11.68	NP	NP	5.90	NP	NP	—	—	—	6.78	NP	Sheen	6.20	NP	Sheen	5.45	NP	Sheen
12/12/10	10.79	NP	NP	4.45	NP	NP	—	—	—	5.97	NP	<0.01	5.27	NP	NP	4.62	NP	Sheen
04/08/11	9.97	NP	NP	4.62	NP	NP	—	—	—	5.72	5.71	0.01	5.22	NP	NP	4.82	NP	NP
07/28/11	11.08	NP	NP	5.71	NP	NP	—	—	—	6.90	6.89	0.01	6.22	NP	NP	5.38	NP	NP
09/21/11	11.75	NP	NP	6.19	NP	NP	—	—	—	7.06	7.05	0.01	6.55	NP	NP	5.78	NP	Sheen
03/26/12	—	—	—	4.68	NP	NP	—	—	—	6.09	5.76	0.33	5.08	NP	NP	4.19	NP	Sheen
06/12/12	11.20	NP	NP	5.24	NP	NP	—	—	—	7.25	6.38	0.87	5.86	NP	NP	4.69	NP	Sheen
09/27/12	—	—	—	8.39	NP	NP	—	—	—	7.29	6.98	0.31	6.73	NP	NP	5.47	NP	Sheen
11/27/12	10.81	NP	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12/20/12	—	—	—	2.15	NP	NP	—	—	—	5.40	4.72	0.68	1.97	NP	NP	0.00	NP	NP
02/22/13	10.81	NP	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4

Performance Product Monitoring Data
Shell Harbor Island Terminal
Seattle, Washington

Date	MW-204			MW-208			MW-209			MW-210			MW-211			MW-212		
	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness
03/29/13	—	—	—	—	—	—	—	—	—	6.53	6.44	0.09	5.97	NP	Sheen	4.90	NP	Sheen
05/16/13	11.30	NP	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
06/28/13	—	—	—	4.98	NP	NP	—	—	—	6.35	6.33	0.02	5.68	NP	NP	4.42	NP	Sheen
09/06/13	11.77	NP	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
09/11/13	—	—	—	5.67	NP	Sheen	—	—	—	6.63	NP	NP	—	—	—	5.32	4.82	0.50
09/12/13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.52	5.03	0.49
10/30/13	—	—	—	5.97	NP	NP	—	—	—	7.08	6.96	0.12	6.43	NP	NP	5.29	5.28	0.01
11/07/13	11.73	NP	NP	5.51	NP	NP	—	—	—	6.44	6.41	0.03	5.68	NP	NP	5.54	5.51	0.03
01/16/14	—	—	—	5.46	NP	NP	5.46	5.51	0.05	6.48	6.36	0.12	5.51	NP	NP	5.47	5.43	0.04
02/27/14	—	—	—	4.72	NP	NP	6.04	NP	Sheen	6.79	6.12	0.67	5.01	NP	NP	6.12	NP	Sheen
03/25/14	—	—	—	4.91	NP	NP	5.90	NP	NP	6.96	5.84	1.12	5.38	NP	NP	6.30	NP	NP
04/22/14	10.78	NP	NP	4.98	NP	NP	5.89	NP	NP	6.32	5.98	0.34	5.33	NP	NP	5.85	NP	Sheen
06/10/14	—	—	—	5.62	NP	Sheen	8.31	NP	NP	7.08	6.85	0.23	6.02	NP	NP	—	NP	NP
07/24/14	—	—	—	5.50	NP	NP	6.91	NP	NP	6.64	6.56	0.08	6.85	NP	NP	6.06	NP	Sheen
08/28/14	—	—	—	5.73	NP	NP	6.79	NP	NP	6.72	6.65	0.07	6.06	NP	NP	6.23	NP	NP
09/23/14	—	—	—	5.76	NP	NP	5.73	NP	NP	6.65	6.55	0.10	5.96	NP	NP	6.08	NP	NP
10/22/14	—	—	—	4.82	NP	NP	4.91	NP	NP	5.87	NP	NP	4.96	NP	NP	4.13	NP	Sheen
11/05/14	11.04	NP	NP	4.50	NP	NP	6.60	NP	NP	6.45	5.90	0.55	4.70	NP	NP	5.12	NP	NP
12/18/14	—	—	—	4.28	NP	NP	5.77	NP	NP	5.49	5.26	0.23	4.50	NP	NP	4.89	NP	NP
01/27/15	—	—	—	4.52	NP	NP	4.88	NP	NP	6.15	5.60	0.55	4.82	NP	NP	5.38	NP	NP
02/26/15	—	—	—	4.92	NP	NP	5.54	NP	NP	6.69	5.88	0.81	5.38	NP	NP	5.59	NP	NP
03/11/15	10.75	NP	NP	5.29	NP	NP	5.55	NP	NP	6.56	6.15	0.41	5.52	NP	NP	5.45	NP	Sheen
04/21/15	—	—	—	5.08	NP	NP	—	—	—	6.44	6.36	0.08	5.50	NP	NP	5.85	NP	NP
05/19/15	11.21	NP	NP	5.31	NP	NP	8.60	NP	NP	6.50	6.49	0.01	5.71	NP	NP	5.67	NP	NP
06/11/15	—	—	—	5.34	NP	NP	—	—	—	6.48	NP	NP	5.70	NP	NP	5.46	NP	NP
07/29/15	11.59	NP	NP	5.81	NP	NP	—	—	—	6.73	NP	NP	6.10	NP	NP	5.85	NP	NP
08/25/15	—	—	—	5.95	NP	NP	—	—	—	6.23	NP	NP	6.17	NP	NP	6.82	NP	NP
09/24/15	—	—	—	5.72	NP	NP	—	—	—	6.60	NP	NP	5.72	NP	NP	6.33	NP	NP
10/15/15	—	—	—	5.35	NP	NP	—	—	—	6.30	NP	NP	5.30	NP	NP	5.82	NP	NP
11/20/15	—	—	—	4.37	NP	NP	—	—	—	6.47	5.67	0.80	4.78	NP	NP	5.51	NP	NP
12/09/15	9.91	NP	NP	2.55	NP	NP	—	—	—	4.45	4.45	Trace	2.80	NP	NP	3.61	NP	NP
02/23/16	—	—	—	4.18	NP	NP	—	—	—	5.82	5.23	0.59	4.45	NP	NP	4.38	NP	Odor
04/22/16	—	—	—	4.90	NP	NP	—	—	—	5.96	5.83	0.13	4.67	NP	NP	5.37	NP	NP
05/03/16	—	—	—	5.27	NP	NP	—	—	—	6.42	6.19	0.23	5.63	NP	NP	6.00	NP	NP
06/02/16	—	—	—	5.34	NP	NP	—	—	—	6.44	6.44	Odor	5.77	NP	NP	6.18	NP	NP
07/14/16	—	—	—	5.58	NP	NP	—	—	—	6.67	NP	NP	6.02	NP	NP	6.27	NP	NP
08/18/16	—	—	—	5.80	NP	NP	—	—	—	6.78	6.78	Odor	6.16	NP	NP	6.44	NP	NP
09/08/16	—	—	—	5.88	NP	NP	—	—	—	6.78	6.78	Odor	6.22	NP	NP	6.55	NP	NP
10/21/16	—	—	—	5.40	NP	NP	—	—	—	6.32	Trace	Trace	6.01	NP	NP	6.10	NP	NP
11/17/16	—	—	—	3.67	NP	NP	—	—	—	5.43	4.49	0.94	3.86	NP	NP	4.68	NP	NP

Table 4

Performance Product Monitoring Data
Shell Harbor Island Terminal
Seattle, Washington

Date	MW-204			MW-208			MW-209			MW-210			MW-211			MW-212		
	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness
12/01/16	—	—	—	3.93	NP	NP	—	—	—	6.00	4.94	1.06	4.14	NP	NP	4.88	NP	NP
12/14/16	10.34	NP	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
01/11/17	—	—	—	2.83	NP	NP	—	—	—	5.38	5.34	0.04	3.18	NP	NP	3.88	NP	Sheen
02/14/17	—	—	—	3.81	NP	NP	—	—	—	5.69	4.75	0.94	4.02	NP	NP	4.79	NP	NP
03/13/17	9.83	NP	NP	4.04	NP	NP	—	—	—	5.98	5.17	0.81	4.27	NP	NP	4.98	NP	NP
04/13/17	—	—	—	3.78	NP	NP	—	—	—	6.42	5.03	1.39	4.02	NP	NP	5.02	NP	NP
05/08/17	—	—	—	4.78	NP	NP	—	—	—	6.74	5.83	0.91	5.32	NP	NP	5.31	NP	NP
06/13/17	—	—	—	5.00	NP	NP	—	—	—	6.18	5.98	0.20	5.36	NP	NP	5.60	NP	NP
07/18/17	—	—	—	5.32	NP	NP	—	—	—	6.47	6.43	0.04	5.78	NP	NP	5.83	NP	NP
08/22/17	11.34	NP	NP	5.32	NP	NP	—	—	—	6.42	NP	NP	5.76	NP	NP	5.92	NP	NP
09/13/17	—	—	—	5.68	NP	NP	—	—	—	6.60	NP	NP	—	—	—	6.21	NP	NP
10/31/17	—	—	—	5.58	NP	NP	—	—	—	6.64	NP	NP	—	—	—	6.17	NP	NP
11/13/17	—	—	—	4.67	NP	NP	—	—	—	6.08	NP	NP	—	—	—	4.98	NP	NP
12/04/17	10.84	NP	NP	4.15	NP	NP	—	—	—	6.05	5.53	0.52	—	—	—	5.38	NP	NP
01/24/18	—	—	—	3.55	NP	NP	—	—	—	5.34	4.95	0.39	3.78	NP	NP	4.16	NP	NP
02/15/18	—	—	—	4.68	NP	NP	—	—	—	6.65	5.64	1.01	4.40	NP	NP	5.42	NP	NP
03/06/18	10.55	NP	NP	4.57	NP	NP	—	—	—	6.19	5.80	0.39	5.03	NP	NP	5.46	NP	NP
04/12/18	—	—	—	4.72	NP	NP	—	—	—	4.96	4.87	0.09	5.68	NP	NP	5.37	NP	NP
05/02/18	—	—	—	4.85	NP	NP	—	—	—	6.22	5.80	0.42	5.17	NP	NP	5.54	NP	NP
06/12/18	11.04	NP	NP	5.25	NP	NP	—	—	—	6.50	6.47	0.03	5.73	NP	NP	6.06	NP	NP
07/12/18	—	—	—	5.24	NP	NP	—	—	—	6.40	6.39	0.01	6.70	NP	NP	5.94	NP	NP
08/23/18	—	—	—	5.57	NP	NP	—	—	—	6.56	6.55	0.01	5.97	NP	NP	6.08	NP	NP
09/05/18	8.20	NP	NP	5.75	NP	NP	—	—	—	6.74	NP	NP	6.16	NP	NP	6.35	NP	NP
10/11/18	—	—	—	5.18	NP	NP	—	—	—	6.32	NP	NP	5.50	NP	NP	5.83	NP	NP
11/07/18	—	—	—	5.01	NP	NP	—	—	—	6.33	NP	NP	5.56	NP	NP	5.66	NP	NP
12/17/18	11.10	NP	NP	4.13	NP	NP	—	—	—	5.31	NP	NP	4.14	NP	NP	4.43	NP	NP
01/16/19	—	—	—	4.48	NP	NP	—	—	—	6.07	5.35	0.72	4.30	NP	NP	5.56	NP	NP
02/20/19	—	—	—	3.98	NP	NP	—	—	—	6.45	5.02	1.43	4.22	NP	NP	4.32	NP	NP
03/18/19	10.51	NP	NP	4.95	4.94	0.01	—	—	—	6.67	5.96	0.71	5.34	NP	NP	6.12	NP	NP
04/10/19	—	—	—	4.66	NP	NP	—	—	—	5.24	NP	NP	4.98	NP	NP	5.78	5.75	0.03
05/15/19	—	—	—	4.19	NP	NP	—	—	—	7.05	6.22	0.83	5.38	NP	NP	6.13	6.10	0.03
06/26/19	—	—	—	5.47	NP	NP	—	—	—	6.58	6.56	0.02	6.88	NP	NP	6.11	NP	NP
07/24/19	—	—	—	5.43	NP	NP	—	—	—	6.59	6.58	0.01	5.88	NP	NP	5.96	NP	NP
08/13/19	—	—	—	5.45	NP	NP	—	—	—	6.58	6.57	0.01	5.72	NP	NP	6.02	NP	NP
09/17/19	11.65	NP	NP	5.23	NP	NP	—	—	—	6.18	6.13	0.05	5.54	NP	NP	6.28	6.25	0.03
10/16/19	—	—	—	5.61	NP	NP	—	—	—	6.47	6.45	0.02	5.77	NP	NP	6.36	NP	NP
11/05/19	—	—	—	5.62	NP	NP	—	—	—	6.78	6.68	0.10	6.01	NP	NP	6.51	NP	NP
12/09/19	11.54	NP	NP	5.08	NP	NP	—	—	—	6.27	NP	NP	5.54	NP	NP	6.14	NP	NP
01/28/20	—	—	—	3.05	NP	NP	—	—	—	4.13	4.06	0.07	3.12	NP	NP	2.03	NP	NP
02/26/20	—	—	—	4.81	NP	NP	—	—	—	6.71	5.78	0.93	5.19	NP	NP	4.97	NP	Sheen

Table 4

Performance Product Monitoring Data
Shell Harbor Island Terminal
Seattle, Washington

Date	MW-204			MW-208			MW-209			MW-210			MW-211			MW-212		
	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness
04/27/20	10.94	NP	NP	5.18	NP	NP	—	—	—	6.43	6.23	0.20	5.47	NP	NP	5.29	NP	NP
06/16/20	—	—	—	5.25	NP	NP	—	—	—	5.69	5.56	0.13	5.72	NP	NP	6.25	NP	NP
06/29/20	11.26	NP	NP	5.08	NP	NP	—	—	—	6.58	6.50	0.08	5.78	NP	NP	5.85	NP	NP
07/29/20	—	—	—	5.20	NP	NP	—	—	—	6.43	6.42	0.01	5.67	NP	NP	6.31	NP	NP
08/27/20	—	—	—	5.41	NP	NP	—	—	—	6.71	6.70	0.01	5.85	NP	NP	6.15	NP	NP
09/21/20	11.59	NP	NP	5.09	NP	NP	—	—	—	6.35	NP	NP	5.45	NP	NP	6.23	NP	NP
10/29/20	—	—	—	5.58	NP	NP	—	—	—	6.87	6.50	0.37	5.99	NP	NP	6.23	NP	NP
11/30/20	—	—	—	4.82	NP	NP	—	—	—	6.23	5.78	0.45	5.11	NP	NP	5.10	NP	NP
12/14/20	11.22	NP	NP	4.75	NP	NP	—	—	—	6.05	5.91	0.14	5.28	NP	NP	5.83	NP	NP
01/21/21	—	—	—	4.27	NP	NP	—	—	—	6.96	4.9	2.06	4.82	NP	NP	5.63	NP	NP
02/16/21	—	—	—	3.69	NP	NP	—	—	—	5.83	4.92	0.91	4.18	NP	NP	4.25	NP	NP
03/23/21	—	—	—	4.53	NP	NP	—	—	—	6.57	6.11	0.46	5.37	NP	NP	5.74	NP	NP
04/12/21	—	—	—	5.28	NP	NP	—	—	—	6.42	6.32	0.10	5.65	NP	NP	6.31	NP	NP
05/12/21	—	—	—	5.54	NP	NP	—	—	—	6.61	6.57	0.04	5.86	NP	NP	6.21	NP	NP
06/14/21	—	—	—	4.97	NP	NP	—	—	—	6.15	NP	NP	5.24	NP	NP	5.62	NP	NP
07/15/21	—	—	—	5.31	NP	NP	—	—	—	6.36	6.32	0.04	5.60	NP	NP	6.01	NP	NP
08/18/21	—	—	—	5.52	NP	NP	—	—	—	6.60	NP	Sheen	5.90	NP	NP	6.16	NP	NP
09/22/21	11.65	NP	NP	5.46	NP	NP	—	—	—	6.50	NP	NP	5.70	NP	NP	6.10	NP	NP
10/21/21	—	—	—	5.32	NP	NP	—	—	—	6.36	NP	NP	5.50	NP	NP	6.05	NP	NP
11/23/21	—	—	—	4.28	NP	NP	—	—	—	6.20	5.38	0.82	4.42	NP	NP	5.19	NP	NP
12/14/21	10.42	NP	NP	3.99	NP	NP	—	—	—	5.12	NP	NP	4.39	NP	NP	4.79	NP	NP
01/25/22	—	—	—	4.34	NP	NP	—	—	—	6.34	5.45	0.89	4.85	NP	NP	5.67	NP	NP
02/28/22	—	—	—	4.59	NP	NP	—	—	—	6.31	NP	NP	4.51	NP	NP	2.86	NP	NP
03/28/22	—	—	—	4.63	NP	NP	—	—	—	5.92	NP	NP	5.00	NP	NP	5.98	NP	NP
04/18/22	—	—	—	5.08	NP	NP	—	—	—	6.18	NP	NP	5.28	NP	NP	5.98	NP	NP
04/18/22	—	—	—	5.08	NP	NP	—	—	—	6.18	6.15	0.03	5.28	NP	NP	5.98	NP	NP
05/23/22	—	—	—	4.81	NP	NP	—	—	—	6.50	6.29	0.21	5.28	NP	NP	5.70	NP	NP
06/27/22	11.18	NP	NP	5.02	NP	NP	—	—	—	6.21	6.06	0.15	5.28	NP	NP	5.90	NP	NP
07/20/22	—	—	—	5.03	NP	NP	—	—	—	6.24	NP	NP	5.42	NP	NP	5.85	NP	NP
08/23/22	—	—	—	5.55	NP	NP	—	—	—	6.62	6.60	0.02	5.94	NP	NP	6.19	NP	NP
09/19/22	—	—	—	5.58	NP	NP	—	—	—	6.99	NP	NP	5.93	NP	NP	6.19	NP	NP
12/12/22	—	—	—	4.21	NP	NP	—	—	—	5.15	NP	NP	4.39	NP	NP	4.70	NP	NP
01/26/23	—	—	—	4.41	NP	NP	—	—	—	6.12	5.65	0.47	4.58	NP	NP	5.59	NP	NP
02/23/23	—	—	—	4.11	NP	NP	—	—	—	5.79	NP	NP	4.45	NP	NP	5.07	NP	NP
03/27/23	—	—	—	4.34	NP	NP	—	—	—	6.53	6.70	0.17	5.35	NP	NP	5.61	NP	NP
04/13/23	—	—	—	4.44	NP	NP	—	—	—	5.68	5.62	0.06	4.66	NP	NP	5.17	NP	NP
05/16/23	—	—	—	4.63	NP	NP	—	—	—	6.27	6.07	0.20	5.21	NP	NP	5.70	NP	NP
06/12/23	—	—	—	4.88	NP	NP	—	—	—	6.90	NP	NP	5.35	NP	NP	5.65	NP	NP
07/20/23	—	—	—	5.32	NP	NP	—	—	—	6.32	6.27	0.05	5.60	NP	NP	6.01	NP	NP
08/17/23	—	—	—	5.37	NP	NP	—	—	—	6.42	6.41	0.01	5.50	NP	NP	5.99	NP	NP

Table 4

Performance Product Monitoring Data
Shell Harbor Island Terminal
Seattle, Washington

Date	MW-204			MW-208			MW-209			MW-210			MW-211			MW-212		
	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness
09/11/23	—	—	—	5.62	NP	NP	—	—	—	6.81	NP	NP	5.94	NP	NP	6.39	NP	NP
11/16/23	—	—	—	4.52	NP	NP	—	—	—	5.66	5.55	0.11	4.68	NP	NP	5.43	NP	NP
12/18/23	—	—	—	4.25	NP	NP	—	—	—	5.11	NP	NP	4.82	NP	NP	5.13	NP	NP
01/16/24	—	—	—	4.02	NP	NP	—	—	—	5.88	5.27	0.61	4.61	NP	NP	5.15	NP	NP
02/22/24	—	—	—	4.15	NP	NP	—	—	—	5.52	5.22	0.30	4.36	NP	NP	4.31	NP	NP
03/11/24	—	—	—	3.72	NP	NP	—	—	—	5.28	NP	NP	3.70	NP	NP	4.18	NP	NP
04/11/24	—	—	—	4.66	NP	NP	—	—	—	5.97	5.74	0.23	4.92	NP	NP	5.68	NP	NP
05/23/24	—	—	—	5.48	NP	NP	—	—	—	6.41	NP	NP	5.80	NP	NP	5.65	NP	NP
06/17/24	—	—	—	5.59	NP	NP	—	—	—	6.05	NP	NP	6.00	NP	NP	6.12	NP	NP
07/11/24	—	—	—	5.48	NP	NP	—	—	—	6.67	NP	NP	5.75	NP	NP	6.17	NP	NP
08/15/24	—	—	—	5.78	NP	NP	—	—	—	6.72	NP	NP	6.17	NP	NP	6.44	NP	NP
09/18/24	—	—	—	5.56	NP	NP	—	—	—	6.76	NP	NP	5.75	NP	NP	6.43	NP	NP
10/10/24	—	—	—	5.91	NP	NP	—	—	—	6.83	NP	NP	6.24	NP	NP	6.35	NP	NP
11/14/24	—	—	—	4.11	NP	NP	—	—	—	5.97	NP	NP	4.45	NP	NP	3.29	NP	NP
12/16/24	—	—	—	3.57	NP	NP	—	—	—	5.98	NP	NP	3.74	NP	NP	3.44	NP	NP

Notes:

= Indicates data collected during this progress report period

Depth relative to the measuring point at the top of the monitoring well PVC pipe

Product depth/thick = product depth/thickness in well measured in feet

— = not measured

NP = no product detected

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-05	05/04/16	14.30	357	3.38	6.26	31.6	9.99	--	--	--	--	--	--	--
MW-05	12/14/16	12.22	308	5.94	6.45	47.0	0	--	--	--	--	--	--	--
MW-05	06/14/17	14.80	249	1.70	6.37	25.4	5.13	--	--	--	--	--	--	--
MW-05	12/07/17	15.16	263	791.21	6.73	-165.1	8.37	--	--	--	--	--	--	--
MW-05	06/12/18	15.66	211	1.47	6.35	-44.7	6.88	--	--	--	--	--	--	--
MW-05	12/18/18	15.00	299	1.73	7.28	-23.6	80	--	--	--	--	--	--	--
MW-05	05/15/19	15.3	294	0.85	6.92	18.3	45	--	--	--	--	--	--	--
MW-05	12/10/19	14.31	300	4.76	5.91	32.8	16	--	--	--	--	--	--	--
MW-05	06/29/20	14.70	289	0.31	6.74	198.9	11	--	--	--	--	--	--	--
MW-05	12/14/20	13.95	292	0.71	8.25	148.9	16	--	--	--	--	--	--	--
MW-05	06/15/21	9.16	276	0.99	6.77	29.8	22	--	--	--	--	--	--	--
MW-05	12/15/21	13.50	241	0.57	10.40	-83.3	21	--	--	--	--	--	--	--
MW-05	04/18/22	12.06	356	0.14	7.87	77.8	13	--	--	--	--	--	--	--
MW-05	06/29/22	15.00	351	0.71	6.21	36.9	34	--	--	--	--	--	--	--
MW-05	12/14/22	13.77	375	0.21	7.81	220.9	3	--	--	--	--	--	--	--
MW-05	06/13/23	15.41	302	3.11	7.25	-48.5	21	--	--	--	--	--	--	--
MW-05	12/18/23	14.82	245	0.32	6.41	-53.4	14	--	--	--	--	--	--	--
MW-05	06/17/24	15.66	85	6.03	6.79	79.0	35	--	--	--	--	--	--	--
MW-05	12/18/24	14.88	88	2.60	6.69	62.6	11	--	--	--	--	--	--	--
MW-101	12/13/16	8.35	244	1.67	6.81	-75	0	--	--	--	--	--	--	--
MW-101	12/06/17	10.99	103	0.32	6.75	-12.3	9	--	--	--	--	--	--	--
MW-101	12/19/18	12.50	239	1.38	7.39	-74.6	11	--	--	--	--	--	--	--
MW-101	12/09/19	13.13	207	3.59	6.49	-69.6	44	--	--	--	--	--	--	--
MW-101	12/16/20	12.73	243	0.25	7.67	118.4	48	--	--	--	--	--	--	--
MW-101	12/14/21	11.50	314	0.59	6.79	124.0	25	--	--	--	--	--	--	--
MW-101	12/12/22	11.79	278	0.40	6.75	130.7	5	--	--	--	--	--	--	--
MW-101	12/19/23	13.49	242	3.87	6.79	-116.6	18	--	--	--	--	--	--	--
MW-101	12/16/24	12.39	321	3.04	6.34	401.2	>1,000	--	--	--	--	--	--	--
MW-102	12/14/16	9.44	438	1.96	6.77	32	0	--	--	--	--	--	--	--
MW-102	12/05/17	11.76	310	1.14	6.43	106.3	9.6	--	--	--	--	--	--	--
MW-102	12/18/18	14.20	415	1.51	7.49	-35.9	12	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-102	12/10/19	13.55	410	3.43	6.16	59.4	27	--	--	--	--	--	--	--
MW-102	12/16/20	13.66	477	0.41	7.72	117.6	30	--	--	--	--	--	--	--
MW-102	12/16/21	12.20	295	0.77	8.10	73.9	11	--	--	--	--	--	--	--
MW-102	12/12/22	12.27	346	0.55	6.54	-46.3	83	--	--	--	--	--	--	--
MW-102	12/18/23	13.18	373	0.46	6.54	-11.7	19	--	--	--	--	--	--	--
MW-102	12/16/24	14.12	416	2.51	7.36	51.1	11	--	--	--	--	--	--	--
MW-104	05/05/16	17.11	420	0.65	6.19	-105.1	4.31	--	--	--	--	--	--	--
MW-104	12/14/16	10.90	340	1.76	6.49	-70	0	--	--	--	--	--	--	--
MW-104	06/14/17	17.09	323	0.82	7.09	-39.3	2.61	--	--	--	--	--	--	--
MW-104	12/07/17	15.60	349	0.61	6.65	-4	0	--	--	--	--	--	--	--
MW-104	06/12/18	19.32	180	0.54	6.24	-44	2.52	--	--	--	--	--	--	--
MW-104	12/18/18	15.80	331	1.34	7.35	-41.6	10	--	--	--	--	--	--	--
MW-104	05/15/19	17.80	258	0.78	6.6	-74.9	6	--	--	--	--	--	--	--
MW-104	12/10/19	15.35	345	2.66	5.4	74.8	36	--	--	--	--	--	--	--
MW-104	06/29/20	17.60	395	0.24	6.73	198.9	9	--	--	--	--	--	--	--
MW-104	12/14/20	16.19	412	0.34	7.75	172.1	13	--	--	--	--	--	--	--
MW-104	06/15/21	11.03	309	1.74	7.20	58.9	6	--	--	--	--	--	--	--
MW-104	12/15/21	14.40	275	0.15	10.06	-115.0	9	--	--	--	--	--	--	--
MW-104	04/18/22	13.97	297	0.11	8.15	62.0	27	--	--	--	--	--	--	--
MW-104	06/29/22	17.00	314	0.52	6.35	-38.2	13	--	--	--	--	--	--	--
MW-104	12/14/22	15.42	368	0.13	7.74	216.3	2	--	--	--	--	--	--	--
MW-104	06/13/23	16.72	389	5.77	7.12	-17.6	24	--	--	--	--	--	--	--
MW-104	12/19/23	15.13	263	0.73	6.27	66.3	23	--	--	--	--	--	--	--
MW-104	06/19/24	18.21	329	0.21	5.89	-1.8	24	--	--	--	--	--	--	--
MW-104	12/18/24	15.72	42	2.43	6.95	51.1	16	--	--	--	--	--	--	--
MW-105	12/14/16	14.63	160	0.32	6.14	-58.1	8.67	--	--	--	--	--	--	--
MW-105	12/06/17	13.11	136	1.37	6.12	-26.4	0	--	--	--	--	--	--	--
MW-105	12/18/18	15.50	93	1.01	7.21	-33.7	49	--	--	--	--	--	--	--
MW-105	12/11/19	15.53	166	0.48	7.31	-17.2	25	--	--	--	--	--	--	--
MW-105	12/14/20	14.90	289	0.50	7.83	155.6	27	--	--	--	--	--	--	--
MW-105	12/15/21	13.00	170	0.13	9.91	-101.9	15	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-105	12/14/22	13.20	234	0.18	7.80	221.3	15	--	--	--	--	--	--	--
MW-105	12/18/23	15.30	177	0.58	6.47	-80.5	23	--	--	--	--	--	--	--
MW-105	12/17/24	11.51	36	2.95	7.50	53.1	14	--	--	--	--	--	--	--
MW-111	05/04/16	15.20	148	3.67	6.29	4.6	23.2	--	--	--	--	--	--	--
MW-111	12/14/16	13.40	295	0.35	6.45	-87.3	6.48	--	--	--	--	--	--	--
MW-111	06/14/17	16.60	112	1.12	7.08	1	8.2	--	--	--	--	--	--	--
MW-111	12/06/17	15.03	386	10.65	6.42	-51.3	5.13	--	--	--	--	--	--	--
MW-111	06/12/18	17.56	118	0.73	6.22	-46.2	4.01	--	--	--	--	--	--	--
MW-111	12/18/18	15.00	417	1.25	7.76	-46.6	20	--	--	--	--	--	--	--
MW-111	05/15/19	16.10	147	0.75	7.57	-55.6	14	--	--	--	--	--	--	--
MW-111	12/11/19	15.42	280	0.4	7.54	-13.1	6	--	--	--	--	--	--	--
MW-111	06/29/20	19.00	116	0.55	6.75	206.5	9	--	--	--	--	--	--	--
MW-111	12/14/20	15.93	242	0.28	7.61	169.8	16	--	--	--	--	--	--	--
MW-111	06/15/21	10.31	110	1.05	6.87	73.4	22	--	--	--	--	--	--	--
MW-111	12/15/21	14.90	238	0.18	9.85	-72.1	6	--	--	--	--	--	--	--
MW-111	04/18/22	12.31	139	0.09	8.15	62.3	44	--	--	--	--	--	--	--
MW-111	06/27/22	18.40	119	0.62	6.21	11.8	34	--	--	--	--	--	--	--
MW-111	12/14/22	12.94	220	0.15	7.43	190.3	3	--	--	--	--	--	--	--
MW-111	06/13/23	16.30	130	1.49	7.24	-61.7	20	--	--	--	--	--	--	--
MW-111	12/19/23	15.09	360	0.07	6.17	37.5	28	--	--	--	--	--	--	--
MW-111	06/17/24	17.21	107	2.65	6.51	69.8	27	--	--	--	--	--	--	--
MW-111	12/18/24	14.53	223	2.47	6.82	51.3	17	--	--	--	--	--	--	--
MW-112A	05/05/16	14.28	448	0.87	6.41	-87	4.41	--	--	--	--	--	--	--
MW-112A	12/12/16	13.70	401	0.67	6.51	-87.1	9.78	--	--	--	--	--	--	--
MW-112A	06/15/17	15.75	498	0.6	7.26	-62.6	--	--	--	--	--	--	--	--
MW-112A	12/07/17	13.97	359	0.82	6.50	-27.9	0	--	--	--	--	--	--	--
MW-112A	06/13/18	16.28	517	0.26	6.51	-56.1	0	--	--	--	--	--	--	--
MW-112A	12/20/18	14.00	495	0.12	6.75	-101	128	--	--	--	--	--	--	--
MW-112A	05/16/19	10.91	529	0.52	6.27	-104	77	--	--	--	--	--	--	--
MW-112A	12/12/19	13.87	620	0.5	8.90	-80.8	12	--	--	--	--	--	--	--
MW-112A	06/29/20	15.70	430	0.32	6.76	189.1	16	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-112A	12/14/20	14.67	399	0.18	7.77	123.7	5	--	--	--	--	--	--	--
MW-112A	06/15/21	9.58	338	0.89	6.56	31.4	4	--	--	--	--	--	--	--
MW-112A	12/15/21	14.40	243	0.19	9.95	-85.8	12	--	--	--	--	--	--	--
MW-112A	04/18/22	11.44	305	0.09	8.24	56.9	18	--	--	--	--	--	--	--
MW-112A	06/28/22	16.20	272	0.52	6.27	-37.2	14	--	--	--	--	--	--	--
MW-112A	12/13/22	12.79	254	0.1	6.38	-36.0	25	--	--	--	--	--	--	--
MW-112A	06/13/23	14.94	374	1.95	7.37	-62.5	16	--	--	--	--	--	--	--
MW-112A	12/19/23	10.57	363	0.89	6.16	22.1	17	--	--	--	--	--	--	--
MW-112A	06/18/24	16.42	396	0.18	6.20	204.1	17	--	--	--	--	--	--	--
MW-112A	12/17/24	8.29	379	2.85	6.71	565	25	--	--	--	--	--	--	--
MW-113	06/27/22	15.40	284	0.54	6.28	-38.4	37	--	--	--	--	--	--	--
MW-113	12/14/22	12.47	265	0.21	7.60	209.5	8	--	--	--	--	--	--	--
MW-113	06/13/23	13.60	265	1.99	7.28	-26.7	17	--	--	--	--	--	--	--
MW-113	12/19/23	13.70	228	0.26	6.45	-10.1	13	--	--	--	--	--	--	--
MW-113	06/17/24	14.63	270	0.11	6.47	210.6	18	--	--	--	--	--	--	--
MW-113	12/17/24	13.08	213	2.57	7.16	44.9	1	--	--	--	--	--	--	--
MW-114	06/27/22	15.40	139	1.32	6.16	53.6	33	--	--	--	--	--	--	--
MW-114	12/14/22	12.68	216	0.3	7.77	222.2	30	--	--	--	--	--	--	--
MW-114	06/13/23	13.76	148	4.47	7.40	-49.0	50	--	--	--	--	--	--	--
MW-114	12/19/23	13.83	126	0.92	6.29	60.2	36	--	--	--	--	--	--	--
MW-114	06/17/24	14.69	135	2.37	7.16	223.8	42	--	--	--	--	--	--	--
MW-114	12/17/24	13.61	180	1.86	6.56	231.7	19	--	--	--	--	--	--	--
MW-115	06/27/22	16.90	248	0.51	6.11	-33.7	46	--	--	--	--	--	--	--
MW-115	12/14/22	13.69	208	0.18	7.80	224.1	5	--	--	--	--	--	--	--
MW-115	06/13/23	14.66	276	1.82	7.33	-60.0	17	--	--	--	--	--	--	--
MW-115	12/19/23	13.88	290	0.62	6.19	6.3	15	--	--	--	--	--	--	--
MW-115	06/17/24	15.95	274	0.13	8.07	204.2	39	--	--	--	--	--	--	--
MW-115	12/17/24	13.69	204	1.86	6.40	246.4	2	--	--	--	--	--	--	--
MW-201	01/14/04	12.00	282	1.98	5.59	-95.5	1.5	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-201	04/20/04	11.40	101	5.52	5.00	61.3	7	ND	--	--	--	5.71	--	--
MW-201	01/26/05	9.00	720	9.12	5.48	129	9	--	--	--	--	--	--	--
MW-201	04/20/05	11.90	700	6.24	6.66	83	8	0	--	--	--	7.67	--	--
MW-201	07/13/05	15.40	99	0.16	5.64	178.1	1.9	--	--	--	--	--	--	--
MW-201	10/20/05	14.10	535	0.42	7.21	49.2	3.9	--	--	--	--	--	--	--
MW-201	01/26/06	8.30	24	7.47	7.02	-72.5	4	--	--	--	--	--	--	--
MW-201	11/20/08	9.30	172	14.08	6.12	268	38.2	--	--	--	--	--	--	--
MW-201	04/07/09	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-201	11/19/09	10.60	13.2	7.79	5.21	61	6.5	--	--	--	--	--	--	--
MW-201	10/27/10	12.70	15.2	6.92	4.79	157	0.5	--	--	--	--	--	--	--
MW-201	10/26/11	11.53	655	2.77	7.59	-76	5.9	--	--	--	--	--	--	--
MW-201	11/27/12	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-201	11/06/13	11.78	800	0	6.68	-74	0	--	--	--	--	--	--	--
MW-201	11/06/14	14.10	121	0	6.08	297	3.3	--	--	--	--	--	--	--
MW-201	12/13/16	8.12	47	3.58	6.13	142.3	9.27	--	--	--	--	--	--	--
MW-201	12/06/17	11.30	57	14.37	6.08	37.7	12.2	--	--	--	--	--	--	--
MW-201	12/19/18	12.60	387	0.65	6.81	-87.4	30	--	--	--	--	--	--	--
MW-201	12/16/20	11.99	116	0.79	6.75	145.8	120	--	--	--	--	--	--	--
MW-201	12/12/22	10.64	634	0.27	7.08	148.3	15	--	--	--	--	--	--	--
MW-201	12/18/23	11.19	51	11.03	6.27	97.2	31	--	--	--	--	--	--	--
MW-201	12/18/24	11.50	81	3.01	6.89	75.6	13	--	--	--	--	--	--	--
MW-202	01/14/04	8.00	52	12.4	5.32	-40.2	9.1	--	--	--	--	--	--	--
MW-202	04/20/04	12.10	317	1.31	5.27	112	9.8	3	--	--	--	< 1	--	--
MW-202	01/26/05	11.60	218	1.69	4.80	3	126	--	--	--	--	--	--	--
MW-202	04/20/05	12.60	44	0	7.78	-60	26	8	--	--	--	<1	--	--
MW-202	07/13/05	15.70	281	0.11	6.09	-22	6.3	--	--	--	--	--	--	--
MW-202	10/20/05	15.50	576	0.44	6.42	-47.9	5.5	--	--	--	--	--	--	--
MW-202	01/26/06	10.78	213	0.18	7.73	-104.7	70	--	--	--	--	--	--	--
MW-202	11/20/08	14.50	532	3.65	6.40	232	10.2	36.6	--	--	--	< 1	--	--
MW-202	04/07/09	11.86	0.175	0	6.12	-82	56.1	--	--	--	--	--	--	--
MW-202	11/19/09	12.40	51.6	1.65	5.81	-53	29.5	19	--	--	--	82	--	--
MW-202	04/27/10	12.30	34	0.22	5.46	-96	55.4	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-202	10/27/10	15.00	29.5	2.35	6.15	-48	24	7.4	--	--	--	< 1.0	--	--
MW-202	10/26/11	12.90	214	2.45	8.22	-104.2	2.72	8.5	--	--	--	< 0.50	--	--
MW-202	03/02/12	10.03	334	0	6.30	-39	27.2	--	--	--	--	--	--	--
MW-202	06/13/12	12.50	284	4.36	7.22	-59	25.7	--	--	--	--	--	--	--
MW-202	09/26/12	14.20	332	0	6.74	-112	25	--	--	--	--	--	--	--
MW-202	11/27/12	12.99	383	0	7.33	-70	77.7	--	--	--	--	15	--	--
MW-202	11/06/13	13.67	263	2.28	5.79	-43.6	4.9	3	--	--	--	0.76	< 0.200	0.439
MW-202	11/06/14	15.87	373	0	6.47	-49	107	5	< 0.25	< 0.25	--	7	0.288	0.631
MW-202	12/10/15	12.85	241	0.42	6.42	-21.3	98.6	1.5	< 0.10	< 0.10	--	11.6	24.2	0.628
MW-202	05/03/16	15.95	232	0.36	6.20	-45.6	16.9	--	--	--	--	--	--	--
MW-202	12/13/16	10.66	223	0.39	6.33	-102.4	9.52	0.5	< 0.0400	< 0.0400	--	1.24 J	45.3	0.401
MW-202	06/14/17	14.76	222	0.33	7.08	-145.6	9	--	--	--	--	--	--	--
MW-202	12/06/17	11.62	153	0.71	6.00	-49	4.5	2.75	< 0.0400	< 0.0400	--	28.6	11.2	0.45
MW-202	06/14/18	14.22	159	0.69	6.04	-2.9	9.87	--	--	--	--	--	--	--
MW-202	12/19/18	12.60	287	0.28	6.84	-87.4	22	14	< 0.0400	< 0.0400	--	58.4	17.9	0.649
MW-202	05/16/19	12.60	266	0.48	6.53	-91.9	71	--	--	--	--	--	--	--
MW-202	12/10/19	12.88	278	4.97	6.12	-10.2	50	3.5	<0.0600	<0.0600	--	8.61	28.3	0.543
MW-202	06/29/20	15.40	406	0.77	7.24	173.70	42	--	--	--	--	--	--	--
MW-202	12/16/20	12.44	272	0.20	7.36	111.10	88	1.20	<0.200	<0.400	--	9.44 J+	12.90	0.436
MW-202	06/14/21	8.10	254	1.50	6.63	170.6	34	--	--	--	--	--	--	--
MW-202	12/16/21	11.40	174	0.81	7.76	3.8	125	--	--	--	0.0685 J	4.00 J	0.32 J	0.532
MW-202	06/29/22	14.10	637	0.76	6.96	6.3	58	--	--	--	--	--	--	--
MW-202	12/12/22	10.49	430	0.20	7.21	154.0	52	1.0	--	--	<0.100	100	0.122 J	0.868
MW-202	06/12/23	15.92	911	0.46	7.11	39.6	46	--	--	--	--	--	--	--
MW-202	12/18/23	12.52	532	0.95	5.97	-77.7	17	--	--	--	0.111 J	--	14.5	1.21
MW-202	06/18/24	16.42	327	0.17	6.11	162.5	15	--	--	--	--	--	--	--
MW-202	12/18/24	12.40	378	2.60	6.92	39.8	17	1.5	--	--	0.0521 J	24.6	2.25 B	0.509 B
MW-203	01/13/04	12.40	243	2.91	6.38	-6.9	13.7	--	--	--	--	--	--	--
MW-203	04/19/04	13.00	369	1.02	6.58	110	39.2	1	--	--	--	2.4	--	--
MW-203	07/27/04	16.40	514	1.12	6.11	90.9	32.2	--	--	--	--	--	--	--
MW-203	10/18/04	14.80	643	0.35	9.42	136.8	110	--	--	--	--	--	--	--
MW-203	01/25/05	12.90	476	2.79	6.37	21	210	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-203	04/19/05	12.80	44	0	6.22	0	5	5.5	--	--	--	6.48	--	--
MW-203	07/13/05	15.00	351	0.67	6.34	-46	15	--	--	--	--	--	--	--
MW-203	10/20/05	15.90	902	1.12	6.69	-48.7	34	--	--	--	--	--	--	--
MW-203	01/23/06	11.40	131	2.2	6.45	7.6	60	--	--	--	--	--	--	--
MW-203	11/18/08	13.90	448	10.3	7.11	87	190	1.35	--	--	--	17.1	--	--
MW-203	04/08/09	12.23	136	1.87	6.83	-31	338	--	--	--	--	--	--	--
MW-203	11/17/09	12.20	25.8	5.49	6.28	197	45.6	< 0.1	--	--	--	8.3	--	--
MW-203	04/26/10	12.70	40.9	0.3	6.81	-109	80.1	--	--	--	--	--	--	--
MW-203	10/25/10	14.10	43.8	1.58	6.10	-4	51.8	4.3	--	--	--	14	--	--
MW-203	05/23/11	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-203	10/26/11	13.98	384	2.94	8.40	-80.9	10.9	8.8	--	--	--	< 0.50	--	--
MW-203	06/13/12	12.80	375	4.27	7.20	-38	22.3	--	--	--	--	--	--	--
MW-203	11/27/12	14.83	250	0	6.61	22	41.7	--	--	--	--	24.4	--	--
MW-203	11/06/13	12.59	486	0.18	6.35	-51	0	3	--	--	--	< 0.50	3.68	0.178
MW-203	11/06/14	16.13	236	4.55	6.71	135.1	28.4	1.5	0.42 J	< 0.25	--	14.5	< 0.200	0.127
MW-203	12/09/15	12.51	0.407	0	6.05	-60	67.2	5	< 0.10	< 0.10	--	4.13	24	0.197
MW-203	05/04/16	12.93	266	4.91	6.42	-108	14.5	--	--	--	--	--	--	--
MW-203	12/13/16	10.46	221	0.73	6.25	-88	9.6	0.5	< 0.0400	< 0.0400	--	2.27	14.1	0.134
MW-203	06/14/17	15.02	203	0.23	6.09	-205.4	12.7	--	--	--	--	--	--	--
MW-203	12/08/17	11.65	274	1.6	6.30	43.8	0	1.25	< 0.0400	< 0.0400	--	21.6	3.32	0.166
MW-203	06/14/18	13.90	265	1.93	6.25	3.9	35.1	--	--	--	--	--	--	--
MW-203	12/20/18	12.80	357	0.78	7.41	-44.6	>1000	1.4	0.307	0.307	--	7.81	2.32	0.195
MW-203	05/16/19	10.89	353	1.89	5.52	-1	99	--	--	--	--	--	--	--
MW-203	12/10/19	12.77	441	4.84	5.30	0.5	41	3	<0.0600	<0.0600	--	1.34 J	20	0.207
MW-203	06/29/20	15.10	339	1.06	7.18	-9.10	10	--	--	--	--	--	--	--
MW-203	12/15/20	12.26	319	0.77	8.07	130.10	87	2.00	1.49	<0.400	--	35.80	<1.00	0.0182
MW-203	06/14/21	7.69	259	1.28	6.33	21.6	406	--	--	--	--	--	--	--
MW-203	12/16/21	11.60	193	0.21	8.30	16.1	16	--	--	--	0.195	16.9	<0.5	0.0505
MW-203	06/28/22	14.10	571	0.57	6.52	13.2	513	--	--	--	--	--	--	--
MW-203	12/14/22	11.74	469	0.23	6.93	174.7	5	1.4	--	--	0.0480	7.94	8.34	0.693
MW-203	06/12/23	16.23	436	1.62	6.41	113.4	61	--	--	--	--	--	--	--
MW-203	12/20/23	13.46	413	0.82	6.41	-40.2	37	1.5	--	--	0.0737 J	1.01 J	<0.5	<0.0100
MW-203	06/18/24	14.60	291	0.06	6.05	-10.9	30	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-203	12/16/24	12.74	374	2.61	6.31	325.2	198	6.5	--	--	0.118	6.86	5.57 B	0.252 B
MW-204	12/13/16	10.72	173	0.99	5.84	21	4	--	--	--	--	--	--	--
MW-204	12/06/17	13.48	129	12.04	5.60	49.8	6.22	--	--	--	--	--	--	--
MW-204	12/19/18	12.90	218	0.33	6.98	-66.1	27	--	--	--	--	--	--	--
MW-204	12/10/19	13.47	340	1.83	6.01	-6	22	--	--	--	--	--	--	--
MW-204	12/16/20	13.41	347	1.00	6.27	190.10	70	--	--	--	--	--	--	--
MW-204	12/16/21	10.50	144	0.22	7.70	-17.2	25	--	--	--	--	--	--	--
MW-204	12/12/22	11.69	247	0.58	6.51	-76.1	26	--	--	--	--	--	--	--
MW-204	12/18/23	14.43	177	1.00	5.80	105.3	8	--	--	--	--	--	--	--
MW-204	12/16/24	13.95	315	1.88	6.09	296.2	11	--	--	--	--	--	--	--
MW-206A	12/12/16	11.31	482	0.68	6.60	-104.9	9.44	--	--	--	--	--	--	--
MW-206A	12/08/17	11.87	491	1.39	6.63	34	0	--	--	--	--	--	--	--
MW-206A	12/20/18	13.10	605	0.81	7.41	-52.3	70	--	--	--	--	--	--	--
MW-206A	12/10/19	13.08	617	2.28	6.07	-41.9	11	--	--	--	--	--	--	--
MW-206A	12/16/20	12.02	718	0.22	9.45	42.10	440	--	--	--	--	--	--	--
MW-206A	12/16/21	8.60	394	0.61	8.20	15.9	21	--	--	--	--	--	--	--
MW-206A	12/12/22	9.59	404	0.17	7.02	-68.2	96	--	--	--	--	--	--	--
MW-206A	12/18/23	13.15	499	0.36	7.23	-166.2	93	--	--	--	--	--	--	--
MW-206A	12/16/24	13.50	512	2.51	8.00	4.0	20	--	--	--	--	--	--	--
MW-213	05/03/16	14.65	12440	0.13	8.26	-330	0	--	--	--	--	--	--	--
MW-213	12/13/16	9.57	18.7	5.52	8.28	-321	5.6	--	--	--	--	--	--	--
MW-213	06/14/17	15.37	10550	0.23	7.03	-330.2	7.36	--	--	--	--	--	--	--
MW-213	12/07/17	12.43	13640	0.55	8.14	-72.3	0	--	--	--	--	--	--	--
MW-213	06/12/18	14.43	8410	0.91	7.65	-91.3	3.02	--	--	--	--	--	--	--
MW-213	12/19/18	12.80	11390	0.82	7.57	-45.6	5	--	--	--	--	--	--	--
MW-213	05/16/19	14.80	11641	1.84	7.50	79.5	2	--	--	--	--	--	--	--
MW-213	12/11/19	10.91	1322	1.28	8.51	-112.7	16	--	--	--	--	--	--	--
MW-213	06/29/20	13.00	16341	0.34	7.83	191.70	9	--	--	--	--	--	--	--
MW-213	12/16/20	12.38	17,924	0.08	7.99	53.20	0	--	--	--	--	--	--	--
MW-213	06/14/21	7.18	17,427	0.47	7.89	113.6	3	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-213	12/16/21	9.90	13,386	0.85	9.67	-101.5	5	--	--	--	--	--	--	--
MW-213	06/29/22	13.80	20,936	0.43	8.09	-313.6	25	--	--	--	--	--	--	--
MW-213	12/12/22	11.24	3,297	0.26	6.83	140.2	5	--	--	--	--	--	--	--
MW-213	06/12/23	15.16	9,167	0.11	7.32	-65.8	17	--	--	--	--	--	--	--
MW-213	12/18/23	12.67	1,843	0.50	8.12	-197.5	18	--	--	--	--	--	--	--
MW-213	06/19/24	17.91	18.23	0.69	7.51	67.1	16	--	--	--	--	--	--	--
MW-213	12/16/24	12.43	16.99	2.49	7.17	13.1	6	--	--	--	--	--	--	--
MW-214	05/03/16	14.91	10960	0.44	8.16	-363	0	--	--	--	--	--	--	--
MW-214	12/14/16	10.50	312	7.24	6.98	39	0	--	--	--	--	--	--	--
MW-214	06/14/17	15.55	10395	0.05	8.14	-358.6	0.85	--	--	--	--	--	--	--
MW-214	12/07/17	14.01	7725	838.05	8.01	-355.1	3.11	--	--	--	--	--	--	--
MW-214	06/12/18	14.77	3900	0.74	7.82	-90.5	0	--	--	--	--	--	--	--
MW-214	12/19/18	13.40	11888	0.12	7.45	-101.6	29	--	--	--	--	--	--	--
MW-214	05/16/19	15.70	10667	0.59	7.43	-62.3	3	--	--	--	--	--	--	--
MW-214	12/11/19	11.41	1576	1.16	10.33	-211.5	9	--	--	--	--	--	--	--
MW-214	06/29/20	15.93	1516	1.66	7.91	-152.70	12	--	--	--	--	--	--	--
MW-214	12/16/20	13.00	17,750	0.15	6.90	95.20	6	--	--	--	--	--	--	--
MW-214	06/14/21	8.21	2,117	1.49	7.47	78.3	2	--	--	--	--	--	--	--
MW-214	12/16/21	12.50	8,441	0.30	9.34	-172.8	5	--	--	--	--	--	--	--
MW-214	06/29/22	14.30	1,680	3.25	7.97	-189.6	13	--	--	--	--	--	--	--
MW-214	12/12/22	12.40	7,989	0.17	6.52	-50	10	--	--	--	--	--	--	--
MW-214	06/12/23	16.44	6,045	0.28	6.74	-115.2	1	--	--	--	--	--	--	--
MW-214	12/18/23	13.20	1,519	0.12	8.47	-185.7	25	--	--	--	--	--	--	--
MW-214	06/19/24	16.59	699	1.02	5.90	284.6	22	--	--	--	--	--	--	--
MW-214	12/16/24	12.22	702	2.91	9.11	64.7	4	--	--	--	--	--	--	--
MW-301	02/22/16	12.32	449	0.34	6.50	-127.1	15.1	--	--	--	--	--	--	--
MW-301	05/02/16	17.58	257	0.29	6.60	-119.6	6.74	--	--	--	--	--	--	--
MW-301	08/29/16	18.76	183	1.96	6.86	5	0	--	--	--	--	--	--	--
MW-301	12/12/16	10.16	357	2.37	6.73	-140	0	--	--	--	--	--	--	--
MW-301	03/13/17	11.62	355	0	6.72	-125	0	--	--	--	--	--	--	--
MW-301	06/13/17	15.60	192	0.37	6.59	-107.4	--	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-301	08/22/17	20.23	187	0	7.32	-105	0	--	--	--	--	--	--	--
MW-301	12/08/17	14.93	151	1.2	6.89	-118.3	-11	--	--	--	--	--	--	--
MW-301	03/06/18	12.60	435	0.82	6.78	19.7	3.19	--	--	--	--	--	--	--
MW-301	06/13/18	16.70	521	0.21	6.61	-76.4	1.8	--	--	--	--	--	--	--
MW-301	09/06/18	18.95	651	0.16	6.57	-94.8	1.34	7	--	--	--	--	--	--
MW-301	12/20/18	15.10	836	0.12	6.53	-50	14	--	--	--	--	--	--	--
MW-301	03/19/19	13.40	930	1.02	7.52	-48.5	119	--	--	--	--	--	--	--
MW-301	05/16/19	12.30	693	0.71	6.11	-52	97	--	--	--	--	--	--	--
MW-301	09/17/19	15.31	373	0.87	6.70	-23.8	11	--	--	--	--	--	--	--
MW-301	12/11/19	14.25	755	10.14	7.15	55.9	64	--	--	--	--	--	--	--
MW-301	04/28/20	13.40	628	0.51	7.56	14.60	14	--	--	--	--	--	--	--
MW-301	06/29/20	20.47	572	0.66	6.50	-28.40	60	--	--	--	--	--	--	--
MW-301	09/21/20	19.20	699	0.37	6.29	20.80	12	--	--	--	--	--	--	--
MW-301	12/15/20	11.20	611	0.40	7.53	116.90	33	--	--	--	--	--	--	--
MW-301	04/13/21	10.60	347	2.26	6.01	35.3	76	--	--	--	--	--	--	--
MW-301	06/14/21	11.44	726	1.78	7.00	37.3	27	--	--	--	--	--	--	--
MW-301	09/22/21	18.21	615	1.43	6.54	-35.6	55	--	--	--	--	--	--	--
MW-301	12/16/21	10.17	502	0.14	6.60	82.3	112	--	--	--	--	--	--	--
MW-301	03/29/22	12.17	592	0.14	6.82	160.7	30	--	--	--	--	--	--	--
MW-301	06/27/22	15.90	601	0.44	6.45	-105.6	65	--	--	--	--	--	--	--
MW-301	09/21/22	16.48	402	0.90	6.40	335.6	42	--	--	--	--	--	--	--
MW-301	12/13/22	12.78	587	0.09	6.39	-31.4	80	--	--	--	--	--	--	--
MW-301	03/28/23	12.27	676	0.33	7.60	-63.1	18	--	--	--	--	--	--	--
MW-301	06/14/23	17.08	723	1.24	7.31	-79	16	--	--	--	--	--	--	--
MW-301	09/11/23	19.59	534	0.09	6.55	-176.6	10	--	--	--	--	--	--	--
MW-301	12/20/23	12.88	495	0.92	6.31	-38.6	39	--	--	--	--	--	--	--
MW-301	03/12/24	10.60	615	2.72	6.71	-40.9	25	--	--	--	--	--	--	--
MW-301	06/18/24	15.61	406	0.10	6.39	164.9	22	--	--	--	--	--	--	--
MW-301	09/18/24	17.94	321	0.66	6.50	72.4	14	--	--	--	--	--	--	--
MW-301	12/17/24	10.49	363	2.70	6.94	24.8	11	--	--	--	--	--	--	--
MW-302	03/01/12	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-302	06/12/12	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature	Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	Ferrous Iron	Nitrogen, Nitrate	Nitrogen, Nitrite	Nitrite Nitrate as N	Sulfate	Iron Dissolved	Manganese Dissolved
		°C	µS/cm	mg/L		mv	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-302	06/28/12	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-302	09/25/12	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-302	11/25/12	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-302	11/05/13	14.81	346	0.1	6.42	-67	0	6.0-6.5	--	--	--	13.2	< 0.200	0.349
MW-302	11/03/14	15.91	342	0.53	6.50	-27.8	5.06	2.5	< 0.10	< 0.10	--	< 0.50	0.765	0.493
MW-302	12/10/15	14.58	337	0.35	6.63	-104.8	0	1.5	< 0.10	< 0.10	--	< 0.50	27.4	0.402
MW-302	05/04/16	13.60	371	4.92	6.51	-116.5	2.49	--	--	--	--	--	--	--
MW-302	12/15/16	10.93	388	0.95	6.58	-89	0	1	< 0.0400	< 0.0400	--	< 0.128	35.1	0.572
MW-302	06/13/17	16.99	143	0.3	5.79	39.2	--	--	--	--	--	--	--	--
MW-302	08/23/17	20.32	358	9.36	7.08	-54	2.7	--	--	--	--	--	--	--
MW-302	12/05/17	13.54	755	0.89	5.82	30.4	8.95	4.25	< 0.0400	< 0.0400	--	97.2	42.9	2.15
MW-302	03/07/18	11.57	984	0.27	6.15	12	9.95	--	--	--	--	--	--	--
MW-302	06/13/18	16.08	446	0.81	6.04	-61.4	5.51	--	--	--	--	--	--	--
MW-302	09/06/18	19.67	424	0.74	6.49	-27	3.37	1.75	--	--	--	--	--	--
MW-302	12/20/18	15.90	726	0.1	6.40	73	55	7	0.105	0.105	--	364	1.4	2.52
MW-302	03/19/19	14.50	1321	0.4	7.44	-54.1	58	--	--	--	--	--	--	--
MW-302	05/16/19	12.83	589	0.7	5.81	-53	43	--	--	--	--	--	--	--
MW-302	09/17/19	14.71	424	0.79	6.75	-35.3	14	--	--	--	--	--	--	--
MW-302	12/11/19	16.95	1359	2.13	8.06	-57.4	19	3	<0.0600	<0.0600	--	629	67.4	3.52
MW-302	04/28/20	14.00	655	0.33	7.32	-25.30	16	--	--	--	--	--	--	--
MW-302	06/29/20	15.22	509	0.88	6.29	-30.80	34	--	--	--	--	--	--	--
MW-302	09/21/20	18.00	499	0.84	6.30	46.20	39	--	--	--	--	--	--	--
MW-302	12/15/20	10.90	692	0.38	7.46	116.20	131	1.80	<0.200	<0.400	--	11.80	12.40	1.74
MW-302	04/13/21	13.4	409	1.39	6.53	-53.4	26	--	--	--	--	--	--	--
MW-302	06/15/21	10.57	538	0.45	7.21	6.0	26	--	--	--	--	--	--	--
MW-302	09/23/21	16.29	630	1.77	5.97	70.0	17	--	--	--	--	--	--	--
MW-302	12/16/21	10.70	597	0.10	7.67	20.3	35	--	--	--	<0.150	104	0.282 J	2.74
MW-302	03/28/22	11.51	769	0.04	7.41	115.1	12	--	--	--	--	--	--	--
MW-302	06/28/22	16.00	936	0.79	6.40	-115.3	11	--	--	--	--	--	--	--
MW-302	09/21/22	16.92	550	0.09	7.22	343.0	18	--	--	--	--	--	--	--
MW-302	12/13/22	12.55	220	0.18	6.39	-43.9	19	7.0	--	--	<0.100	39.1	31.8	0.607
MW-302	03/27/23	12.62	790	0.3	7.52	-58.7	25	--	--	--	--	--	--	--
MW-302	06/13/23	15.47	360	1.17	7.30	-41.6	28	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-302	09/12/23	19.37	342	0.21	6.19	-96.2	2	--	--	--	--	--	--	--
MW-302	12/20/23	14.46	778	0.83	6.40	-59.6	70	6.0	--	--	0.208	49	0.326 J	1.82
MW-302	03/11/24	11.67	593	2.68	6.86	-31.3	16	--	--	--	--	--	--	--
MW-302	06/18/24	15.41	563	0.10	6.32	188.5	19	--	--	--	--	--	--	--
MW-302	09/19/24	19.00	340	0.59	6.52	-19.1	14	--	--	--	--	--	--	--
MW-302	12/17/24	12.05	517	1.93	6.15	299.2	17	7.0	--	--	0.0450 J	9.99	3.13 B	0.798 B
MW-303	05/04/16	11.90	91	2.92	6.42	-73.9	9.31	--	--	--	--	--	--	--
MW-303	12/12/16	11.20	185	1.29	6.49	-50	0	--	--	--	--	--	--	--
MW-303	06/13/17	15.03	69	0.3	6.20	15.9	--	--	--	--	--	--	--	MN
MW-303	12/08/17	12.72	257	1.74	5.18	77.1	4.48	--	--	--	--	--	--	--
MW-303	03/06/18	11.47	382	0.76	5.59	91.7	3.47	--	--	--	--	--	--	--
MW-303	06/13/18	14.32	148	0.64	5.84	-19.6	4.22	--	--	--	--	--	--	--
MW-303	09/06/18	18.26	388	0.32	6.38	-56.1	4.4	6	--	--	--	--	--	--
MW-303	12/20/18	12.90	561	0.39	5.51	145	18	--	--	--	--	--	--	--
MW-303	03/19/19	11.10	470	0.59	7.19	-34.9	20	--	--	--	--	--	--	--
MW-303	05/16/19	10.49	590	1.8	5.56	-19	29	--	--	--	--	--	--	--
MW-303	09/17/19	14.68	474	1.3	6.31	-24.7	7	--	--	--	--	--	--	--
MW-303	12/11/19	13.89	570	0.71	7.80	-53.9	41	--	--	--	--	--	--	--
MW-303	04/28/20	12.70	238	0.43	6.65	40.80	20	--	--	--	--	--	--	--
MW-303	06/29/20	14.79	566	0.72	7.22	2.10	24	--	--	--	--	--	--	--
MW-303	09/21/20	18.80	1105	0.25	6.50	1.40	20	--	--	--	--	--	--	--
MW-303	12/15/20	10.93	382	0.42	7.20	115.80	15	--	--	--	--	--	--	--
MW-303	04/13/21	9.10	87	2.46	5.91	36.1	26	--	--	--	--	--	--	--
MW-303	06/14/21	9.33	368	1.32	6.65	6.7	12	--	--	--	--	--	--	--
MW-303	09/22/21	18.13	1,158	1.25	6.53	-47.5	11	--	--	--	--	--	--	--
MW-303	12/15/21	9.00	251	0.43	7.58	14.9	8	--	--	--	--	--	--	--
MW-303	03/28/22	10.79	212	0.06	6.93	144.3	12	--	--	--	--	--	--	--
MW-303	06/28/22	15.20	300	0.48	6.03	-51.3	13	--	--	--	--	--	--	--
MW-303	09/21/22	15.76	641	0.09	6.45	343.4	23	--	--	--	--	--	--	--
MW-303	12/13/22	10.75	345	0.16	6.44	-16.9	16	--	--	--	--	--	--	--
MW-303	03/28/23	10.30	211	1.02	7.44	-3.3	21	--	--	--	--	--	--	--
MW-303	06/14/23	15.83	348	1.17	7.59	-42.4	29	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-303	09/11/23	17.83	611	0.13	6.27	-103.9	17	--	--	--	--	--	--	--
MW-303	12/20/23	11.55	295	0.37	6.12	-28.5	22	--	--	--	--	--	--	--
MW-303	03/12/24	9.54	225	3.40	6.70	-9.2	23	--	--	--	--	--	--	--
MW-303	06/18/24	14.94	280	0.09	6.13	-47.5	15	--	--	--	--	--	--	--
MW-303	09/18/24	17.20	491	0.59	6.51	45.5	12	--	--	--	--	--	--	--
MW-303	12/17/24	10.58	364	2.72	6.69	36.7	2	--	--	--	--	2.03	--	--
MW-304	11/05/13	12.20	396	0.1	6.60	-119	0	7	--	--	--	< 0.50	0.345	0.273
MW-304	11/03/14	14.86	310	0.62	6.46	-36.9	11.2	5	< 0.10	< 0.10	--	0.51	3.60 J	0.297 J
MW-304	12/10/15	12.81	345	0.35	6.55	100.1	3.99	3	< 0.10	< 0.10	--	0.873	33.7	0.39
MW-304	05/04/16	12.90	337	1.95	6.35	-103.1	6.29	--	--	--	--	--	--	--
MW-304	12/15/16	9.20	342	2.4	6.65	-92	0	0.5	< 0.0400	< 0.0400	--	3.35	28.2	0.276
MW-304	06/13/17	16.82	162	1.47	6.27	-24.2	--	--	--	--	--	--	--	--
MW-304	08/23/17	20.76	529	0	7.09	-55	0.1	--	--	--	--	--	--	--
MW-304	12/05/17	13.01	1421	1	3.42	134.2	3.96	2.25	< 0.0400	< 0.0400	--	253	18.6	8.94
MW-304	03/06/18	12.36	794	1.52	4.82	105.9	3.92	--	--	--	--	--	--	--
MW-304	06/13/18	16.04	305	0.19	6.12	-63.2	5.78	--	--	--	--	--	--	--
MW-304	09/06/18	20.20	439	0.48	4.72	127.5	3.83	--	--	--	--	--	--	--
MW-304	12/20/18	14.30	830	0.19	4.19	272	96	6.5	0.0730 J	0.0730 J	--	520	2.51	2.74
MW-304	03/19/19	11.80	155	0.71	7.53	-30.3	24	--	--	--	--	--	--	--
MW-304	05/16/19	10.89	367	1.27	4.82	36	9	--	--	--	--	--	--	--
MW-304	09/17/19	13.56	323	1.29	6.73	5.4	15	--	--	--	--	--	--	--
MW-304	12/11/19	15.30	1518	5.46	8.24	91.6	62	6	<0.0600	<0.0600	--	908	11.3	4.79
MW-304	04/28/20	12.40	324	0.59	6.92	25.80	10	--	--	--	--	--	--	--
MW-304	06/29/20	14.78	301	0.78	6.83	-13.60	26	--	--	--	--	--	--	--
MW-304	09/21/20	16.70	393	0.22	5.78	59.30	41	--	--	--	--	--	--	--
MW-304	12/15/20	11.07	457	0.33	7.32	120.80	32	1.00	<0.200	<0.400	--	75.10	50.60	0.483
MW-304	04/13/21	9.00	92	2.60	6.00	79.8	33	--	--	--	--	--	--	--
MW-304	06/15/21	9.80	224	1.12	6.49	55.5	8	--	--	--	--	--	--	--
MW-304	09/22/21	17.36	370	1.33	5.72	19.8	15	--	--	--	--	--	--	--
MW-304	12/16/21	9.17	244	0.06	6.60	108.2	23	--	--	--	0.0724 J	72.8	19	1.18
MW-304	03/28/22	11.80	135	0.10	6.79	152.3	10	--	--	--	--	--	--	--
MW-304	06/28/22	15.90	230	0.45	6.64	11.3	10	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature	Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	Ferrous Iron	Nitrogen, Nitrate	Nitrogen, Nitrite	Nitrite Nitrate as N	Sulfate	Iron Dissolved	Manganese Dissolved
		°C	µS/cm	mg/L		mv	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-304	09/20/22	18.11	345	0.11	6.28	349.1	12	--	--	--	--	--	--	--
MW-304	12/13/22	11.01	317	0.22	6.37	-24.1	17	7.0	--	--	<0.100	51.6	8.8	0.462
MW-304	03/27/23	10.31	205	0.22	8.09	-31.5	20	--	--	--	--	--	--	--
MW-304	06/14/23	18.16	281	0.67	7.11	-59.3	17	--	--	--	--	--	--	--
MW-304	09/11/23	19.23	356	5.84	6.35	-69.5	3	--	--	--	--	--	--	--
MW-304	12/20/23	12.56	371	0.48	6.36	-49.4	20	5.5	--	--	0.211	7.22	6.6	1.06
MW-304	03/12/24	10.27	748	2.65	6.84	-58.2	29	--	--	--	--	--	--	--
MW-304	06/18/24	14.34	388	0.09	6.42	-42.3	19	--	--	--	--	--	--	--
MW-304	09/18/24	16.75	366	0.70	6.73	13.2	16	--	--	--	--	--	--	--
MW-304	12/17/24	9.94	426	2.03	6.25	197.7	34	5.0	--	--	0.0733 J	<1.50	0.863 B	0.361 B
MW-307	11/26/12	12.70	332	0	7.18	-62	36.6	--	--	--	--	1.5	--	--
MW-307	11/06/13	12.31	231	0.07	6.42	-106	0.8	3.5	--	--	--	< 0.50	< 0.200	0.217
MW-307	11/04/14	14.49	383	0.26	6.86	-107	6.9	4.5	< 0.10	< 0.10	--	< 0.50	18.2	0.513
MW-307	12/09/15	12.78	225	0.51	6.40	-77.6	7.89	2.25	< 0.10	< 0.10	--	< 0.50	29.6	0.338
MW-307	02/23/16	10.43	225	0.27	6.21	-68.9	9.98	--	--	--	--	--	--	--
MW-307	05/03/16	12.71	211	0.39	6.05	-54	9.27	--	--	--	--	--	--	--
MW-307	08/30/16	16.90	198	1.18	6.91	67	0	--	--	--	--	--	--	--
MW-307	12/13/16	10.28	138	0.57	6.46	-87.4	8.09	1.5	< 0.0400	< 0.0400	--	< 0.256	21.2	0.235
MW-307	03/14/17	11.62	224	0	6.46	-79	0	--	--	--	--	--	--	--
MW-307	06/15/17	12.72	126	0.33	5.40	15.1	1.91	--	--	--	--	--	--	--
MW-307	08/23/17	17.87	149	0	7.03	-13	2.1	--	--	--	--	--	--	--
MW-307	12/06/17	14.55	405	1.49	6.18	-47.1	0	0.6	< 0.0400	< 0.0400	--	465	37.1	1.07
MW-307	03/08/18	13.90	270	0.38	6.42	2.6	5.1	--	--	--	--	--	--	--
MW-307	06/14/18	13.80	205	0.45	6.55	-23	2.92	--	--	--	--	--	--	--
MW-307	09/04/18	18.44	235	0.99	6.11	-25.6	0	2	--	--	--	--	--	--
MW-307	12/19/18	16.60	343	2.15	7.69	28.7	17	1.4	< 0.0400	< 0.0400	--	82.6	7.61	0.669
MW-307	03/18/19	14.30	530	0.85	6.79	-62.3	20	--	--	--	--	--	--	--
MW-307	05/16/19	14.10	315	0.72	6.82	-90.6	4	--	--	--	--	--	--	--
MW-307	09/17/19	13.21	231	1.15	6.95	1.6	10	--	--	--	--	--	--	--
MW-307	12/10/19	15.65	541	1.37	6.88	-44.6	18	5.5	<0.0600	<0.0600	--	210	60.4	1.21
MW-307	04/27/20	13.60	677	0.60	6.72	-96.40	43	--	--	--	--	--	--	--
MW-307	06/29/20	14.80	505	0.34	6.82	115.90	40	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-307	09/21/20	15.80	476	0.41	5.96	37.20	29	--	--	--	--	--	--	--
MW-307	12/16/20	13.16	694	0.32	7.50	130.10	0	2.40	<0.200	<0.400	--	8.26 J+	51.80	1.17
MW-307	04/12/21	11.20	276	1.91	6.47	-56.9	65	--	--	--	--	--	--	--
MW-307	06/14/21	6.85	352	0.51	7.35	156.3	11	--	--	--	--	--	--	--
MW-307	09/22/21	16.03	661	1.12	6.10	0.8	17	--	--	--	--	--	--	--
MW-307	12/14/21	11.00	423	0.30	9.10	-24.0	18	--	--	--	0.110	22.1	0.172 J	0.764
MW-307	03/28/22	11.21	403	0.01	7.43	114.4	40	--	--	--	--	--	--	--
MW-307	06/29/22	15.20	430	0.66	6.88	34.8	19	--	--	--	--	--	--	--
MW-307	09/20/22	18.41	685	0.18	7.13	341.8	13	--	--	--	--	--	--	--
MW-307	12/12/22	11.27	322	0.43	6.45	-16.4	12	6.0	--	--	<0.100	1.43 J	0.366 J	0.678
MW-307	03/27/23	14.60	634	0.26	7.03	-19.2	10	--	--	--	--	--	--	--
MW-307	06/13/23	12.14	403	1.16	6.64	83.9	18	--	--	--	--	--	--	--
MW-307	09/11/23	16.93	693	0.71	6.88	186.7	18	--	--	--	--	--	--	--
MW-307	12/19/23	13.22	483	0.68	6.49	-104.2	29	7.0	--	--	0.0969 J	23.6	21.7	0.695
MW-307	03/11/24	10.85	504	2.99	7.10	-18.8	23	--	--	--	--	--	--	--
MW-307	06/19/24	13.21	287	0.10	6.21	221.0	21	--	--	--	--	--	--	--
MW-307	09/18/24	15.90	242	0.73	6.51	48.4	13	--	--	--	--	--	--	--
MW-307	12/16/24	12.95	308	2.60	7.53	-6.1	14	2.6	--	--	0.109	0.982 J	<0.500	0.400 B
MW-308	02/23/16	10.09	657	0.32	6.78	-36.3	9.17	--	--	--	--	--	--	--
MW-308	05/03/16	13.49	431	0.31	6.52	-42.7	7.44	--	--	--	--	--	--	--
MW-308	08/30/16	16.93	224	1.43	7.00	50	0	--	--	--	--	--	--	--
MW-308	12/13/16	10.31	577	0.51	6.75	-22.5	8.43	1.5	< 0.0400	< 0.0400	--	141	1.53	1.05
MW-308	03/14/17	10.27	587	0	6.99	86	0	--	--	--	--	--	--	--
MW-308	06/15/17	13.16	355	0.9	7.07	-53	7.5	--	--	--	--	--	--	--
MW-308	08/23/17	18.34	235	0	7.15	-32	0	--	--	--	--	--	--	--
MW-308	12/06/17	13.30	591	801.24	6.76	-73.2	3.97	1.7	< 0.0400	< 0.0400	--	21.4	1.24	1.49
MW-308	03/08/18	10.08	758	0.29	6.74	-26.7	6.79	--	--	--	--	--	--	--
MW-308	06/14/18	14.41	208	0.43	6.34	-13.5	4.1	--	--	--	--	--	--	--
MW-308	09/05/18	17.87	270	0.64	6.57	-45.2	0	2	--	--	--	--	--	--
MW-308	12/19/18	10.70	579	1.68	6.94	52.4	30	0	< 0.0400	< 0.0400	--	48.1	0.167 J	0.0912
MW-308	03/18/19	12.50	912	0.63	7.03	-61.3	15	--	--	--	--	--	--	--
MW-308	05/16/19	13.20	311	0.29	6.78	-107.3	10	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-308	09/17/19	12.90	213	1.61	6.64	2.6	12	--	--	--	--	--	--	--
MW-308	12/09/19	14.07	386	1.89	6.32	-53.5	10	5.5	<0.0600 J	<0.0600 J	--	93.9	16.1	1.01
MW-308	04/27/20	13.30	825	0.77	6.43	-73.10	31	--	--	--	--	--	--	--
MW-308	06/29/20	15.30	726	0.44	7.05	108.80	24	--	--	--	--	--	--	--
MW-308	09/21/20	15.70	489	0.7	5.69	239.30	38	--	--	--	--	--	--	--
MW-308	12/16/20	11.78	556	0.39	7.62	123.70	11	2.60	<0.200	<0.400	--	3.79 J+	4.57	0.293
MW-308	04/12/21	10.40	323	2.15	6.72	142.2	38	--	--	--	--	--	--	--
MW-308	06/14/21	7.31	600	1.15	6.97	137.7	11	--	--	--	--	--	--	--
MW-308	09/22/21	15.90	589	1.44	6.39	-17.2	6	--	--	--	--	--	--	--
MW-308	12/14/21	7.70	548	0.87	6.95	150.0	10	--	--	--	<0.150	20.9	<0.5	0.219
MW-308	03/28/22	10.54	647	0.01	7.32	121.8	11	--	--	--	--	--	--	--
MW-308	06/29/22	15.30	439	0.66	6.68	7.6	17	--	--	--	--	--	--	--
MW-308	09/20/22	17.72	723	0.29	7.08	337.8	28	--	--	--	--	--	--	--
MW-308	12/12/22	9.79	369	0.38	6.46	34.4	83	1.0	--	--	<0.100	48.0	0.162 J	0.00254 J
MW-308	03/27/23	13.97	684	0.38	7.05	-41.2	22	--	--	--	--	--	--	--
MW-308	06/13/23	12.31	316	0.64	6.59	-41.6	24	--	--	--	--	--	--	--
MW-308	09/11/23	16.49	746	0.43	7.01	147.9	36	--	--	--	--	--	--	--
MW-308	12/19/23	11.23	680	0.69	7.02	-24.4	8	0	--	--	<0.150	128	0.11 J	0.118
MW-308	03/11/24	9.84	650	2.88	7.16	27	10	--	--	--	--	--	--	--
MW-308	06/19/24	13.32	772	0.08	6.50	90.1	23	--	--	--	--	--	--	--
MW-308	09/18/24	15.63	338	0.68	6.74	71.2	10	--	--	--	--	--	--	--
MW-308	12/16/24	11.45	631	2.70	7.17	44.9	18	0.5	--	--	0.179	76.1	<0.500	0.0168 B
MW-309	05/04/16	14.84	208	2.8	6.50	-102.7	8.08	--	--	--	--	--	--	--
MW-309	12/12/16	11.39	250	0.67	6.46	-110.3	9.47	--	--	--	--	--	--	--
MW-309	06/13/17	15.23	147	0.21	6.49	-89.1	--	--	--	--	--	--	--	--
MW-309	12/05/17	14.56	215	1.1	6.72	-87.3	-20.7	--	--	--	--	--	--	--
MW-309	06/12/18	16.23	161	0.53	6.41	-42	7.48	--	--	--	--	--	--	--
MW-309	12/20/18	13.90	410	0.16	6.80	-112	21	--	--	--	--	--	--	--
MW-309	05/16/19	11.48	588	0.57	6.16	-109	62	--	--	--	--	--	--	--
MW-309	12/11/19	14.91	554	0.37	7.49	-70.1	37	--	--	--	--	--	--	--
MW-309	06/29/20	17.23	582	0.72	6.71	-12.60	77	--	--	--	--	--	--	--
MW-309	12/15/20	12.09	6.76	0.36	7.53	119.30	91	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-309	06/15/21	11.34	322	0.59	6.52	23.4	68	--	--	--	--	--	--	--
MW-309	12/15/21	12.80	384	0.07	8.17	-22.8	6	--	--	--	--	--	--	--
MW-309	06/28/22	16.00	287	0.51	6.35	-76.8	151	--	--	--	--	--	--	--
MW-309	12/13/22	12.43	298	0.11	6.40	-29.9	120	--	--	--	--	--	--	--
MW-309	06/14/23	17.21	379	0.86	7.23	-66.5	51	--	--	--	--	--	--	--
MW-309	12/20/23	13.50	240	0.25	6.24	-37.8	25	--	--	--	--	--	--	--
MW-309	06/18/24	14.17	468	0.14	6.19	58.7	32	--	--	--	--	--	--	--
MW-309	12/17/24	11.85	313	2.52	6.28	243.5	32	--	--	--	--	--	--	--
MW-310	11/28/12	13.97	385	0	7.22	-88	80.6	--	--	--	--	< 0.50	--	--
MW-310	11/05/13	14.07	396	0.05	6.44	-95	0	2.0-2.5	--	--	--	< 0.50	0.982	0.528
MW-310	11/04/14	15.97	393	0.03	6.88	-101	0	1.5	< 0.10	< 0.10	--	< 0.50	11.5	0.615
MW-310	12/10/15	13.23	313	0.45	6.39	-78.5	0	2	< 0.10	< 0.10	--	< 0.50	34.8	0.554
MW-310	02/22/16	11.72	358	0.29	6.40	-98.5	3.83	--	--	--	--	--	--	--
MW-310	05/02/16	15.68	270	0.34	6.18	-67.1	8.56	--	--	--	--	--	--	--
MW-310	08/29/16	19.29	283	1.64	6.82	29	0	--	--	--	--	--	--	--
MW-310	12/15/16	11.60	258	1.26	6.49	-70	0	2	< 0.0400	< 0.0400	--	1.13	26.4	0.485
MW-310	03/13/17	11.24	317	0	6.53	-102	0	--	--	--	--	--	--	--
MW-310	06/15/17	15.80	229	0.33	6.21	-69.1	--	--	--	--	--	--	--	--
MW-310	08/22/17	23.88	365	0	6.96	-80	21.4	--	--	--	--	--	--	--
MW-310	12/05/17	13.45	603	1.39	4.01	101	3.3	1.5	< 0.0400	< 0.0400	--	44.2	1.55	2.66
MW-310	03/06/18	12.75	946	0.3	5.25	72.8	5.8	--	--	--	--	--	--	--
MW-310	06/13/18	17.54	464	0.2	5.84	-34.4	2.01	--	--	--	--	--	--	--
MW-310	09/06/18	20.00	293	0.67	5.45	74	2.13	3	--	--	--	--	--	--
MW-310	12/20/18	15.90	605	1.43	7.10	49.6	18	3.2	0.346	0.346	--	318	7.48	1.63
MW-310	03/19/19	14.40	804	1.25	7.21	-21.1	28	--	--	--	--	--	--	--
MW-310	05/16/19	12.36	695	1.09	4.51	87	72	--	--	--	--	--	--	--
MW-310	09/17/19	13.46	281	0.83	6.93	-23.9	16	--	--	--	--	--	--	--
MW-310	12/11/19	16.40	1551	12.52	6.92	155.8	28	5	<0.0600	<0.0600	--	999	53.1	7.24
MW-310	04/28/20	14.00	1460	0.54	6.71	64.40	18	--	--	--	--	--	--	--
MW-310	06/29/20	15.03	908	0.99	6.96	-21.80	47	--	--	--	--	--	--	--
MW-310	09/21/20	17.80	745	2.68	6.01	249.7	12	--	--	--	--	--	--	--
MW-310	12/15/20	11.86	1,020	0.33	7.57	116.9	64	1.60	<0.200	<0.400	--	167	64.90	1.48

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-310	04/12/21	13.80	386	1.67	6.39	-28.8	92	--	--	--	--	--	--	--
MW-310	06/15/21	12.16	571	0.64	7.05	45.9	53	--	--	--	--	--	--	--
MW-310	09/22/21	18.17	789	1.05	6.02	-15.7	51	--	--	--	--	--	--	--
MW-310	12/16/21	12.25	648	0.06	6.66	-28.1	85	--	--	--	0.102 J	90.8	0.339 J	2.5
MW-310	03/29/22	11.83	677	0.21	6.95	154.3	22	--	--	--	--	--	--	--
MW-310	06/28/22	15.40	752	0.41	6.41	-98.6	37	--	--	--	--	--	--	--
MW-310	09/20/22	19.95	572	0.48	6.32	316.7	23	--	--	--	--	--	--	--
MW-310	12/13/22	10.61	399	0.31	6.39	-54.3	44	7.0	--	--	<0.100	22.2	7.74	0.857
MW-310	03/27/23	13.26	824	0.23	7.58	-92.5	29	--	--	--	--	--	--	--
MW-310	06/13/23	16.15	767	1.53	7.29	-83	35	--	--	--	--	--	--	--
MW-310	09/11/23	20.58	473	0.1	6.34	-148	21	--	--	--	--	--	--	--
MW-310	12/19/23	13.41	973	0.17	6.57	-51.1	42	--	--	--	0.107 J	22.2	10.8	1.49
MW-310	03/12/24	10.91	998	2.7	6.95	-68.5	21	--	--	--	--	--	--	--
MW-310	06/18/24	15.50	593	0.08	6.34	-12.4	21	--	--	--	--	--	--	--
MW-310	09/18/24	18.12	409	0.73	6.66	-12.0	18	--	--	--	--	--	--	--
MW-310	12/17/24	9.01	565	2.07	6.23	156.5	41	5.75	--	--	0.0506 J	<1.50	3.77 B	0.803 B
MW-311	11/05/14	16.57	606	0	7.42	-146	7	1.5	< 0.25	< 0.25	--	42.3	< 0.200	1.57
MW-311	12/10/15	14.15	482	0	6.35	-103	1.4	0.75	< 0.10	< 0.10	--	46.4	27.4	1.45
MW-311	02/22/16	13.84	583	0.26	6.45	-103.1	4.19	--	--	--	--	--	--	--
MW-311	05/04/16	14.42	564	1.02	6.49	-109.3	6.22	--	--	--	--	--	--	--
MW-311	08/29/16	22.58	384	1.01	6.89	22	7.66	--	--	--	--	--	--	--
MW-311	12/15/16	12.91	270	0.4	6.64	-107.3	7.38	3	< 0.0400	< 0.0400	--	23.7	22.7	0.801
MW-311	03/13/17	12.31	424	0.31	6.73	-98.5	0	--	--	--	--	--	--	--
MW-311	06/15/17	15.25	453	0.95	7.16	-87.5	--	--	--	--	--	--	--	--
MW-311	08/22/17	19.69	390	8.27	7.10	-72	0	--	--	--	--	--	--	--
MW-311	12/07/17	15.15	276	0.38	6.61	-33.2	0	3.75	< 0.0400 J	< 0.0400 J	--	28.4	8.42	0.703
MW-311	03/08/18	10.87	585	1.04	6.62	-17.2	0	--	--	--	--	--	--	--
MW-311	06/13/18	17.24	366	0.25	6.44	-45.7	0	--	--	--	--	--	--	--
MW-311	09/05/18	19.44	455	0.19	6.27	38.8	3.11	--	--	--	--	--	--	--
MW-311	12/20/18	14.60	522	1.15	7.33	-72.6	14	1.7	< 0.0400	< 0.0400	--	8.59	4.44	1.02
MW-311	03/18/19	14.80	530	0.32	6.71	-73.9	3	--	--	--	--	--	--	--
MW-311	05/16/19	14.30	519	0.1	6.82	-71.4	5	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-311	09/17/19	13.98	338	0.62	6.61	-22.9	3	--	--	--	--	--	--	--
MW-311	12/12/19	15.24	674	0.8	7.22	-84.4	3	4.5	<0.0600	<0.0600	--	8.28	41.5	1.81
MW-311	04/27/20	14.20	792	0.72	7.60	-83.2	9	--	--	--	--	--	--	--
MW-311	06/29/20	15.20	957	0.44	6.97	121.9	15	--	--	--	--	--	--	--
MW-311	09/21/20	17.50	763	0.26	6,53	-51.2	16	--	--	--	--	--	--	--
MW-311	12/15/20	14.11	877	0.20	7.80	118.0	30	2.80	<0.200	<0.400	--	74.20	18.30	2.04
MW-311	04/13/21	13.0	338	2.30	6.75	-71.2	18	--	--	--	--	--	--	--
MW-311	09/22/21	17.34	812	1.57	6.70	-50.1	9	--	--	--	--	--	--	--
MW-311	12/16/21	10.67	473	0.08	7.34	37.4	8	--	--	--	<0.150	4.42	0.144 J	1.77
MW-311	03/29/22	13.47	728	0.01	7.18	137.7	2	--	--	--	--	--	--	--
MW-311	06/28/22	15.70	636	0.46	6.48	-98.6	17	--	--	--	--	--	--	--
MW-311	09/20/22	19.90	764	0.03	6.42	380.4	6	--	--	--	--	--	--	--
MW-311	12/13/22	14.18	616	0.13	6.42	-48.6	6	7.0	--	--	<0.100	0.429 J	6.14	1.89
MW-311	03/28/23	12.43	718	0.36	7.22	-11.2	13	--	--	--	--	--	--	--
MW-311	06/14/23	15.28	751	5.49	7.78	5.3	16	--	--	--	--	--	--	--
MW-311	09/12/23	18.95	601	0.11	6.47	-127.5	14	--	--	--	--	--	--	--
MW-311	12/20/23	14.79	641	0.29	6.30	-38.3	9	1.0	--	--	<0.150	<1.5	3.1	1.58
MW-311	03/12/24	11.20	707	2.68	6.51	-37.9	5	--	--	--	--	--	--	--
MW-311	06/17/24	17.53	743	0.11	6.49	153.5	26	--	--	--	--	--	--	--
MW-311	09/19/24	17.10	569	0.75	6.32	129.3	15	--	--	--	--	--	--	--
MW-311	12/17/24	11.92	544	2.64	7.14	16.6	5	2.0	--	--	<0.100	<1.50	1.47 B	1.05 B
MW-312	11/05/14	17.07	459	0.58	6.78	-92	0	5.7	< 0.25	< 0.25	--	< 1.3	< 0.200	0.787
MW-312	12/10/15	13.74	434	0	6.30	-89	0	1.5	< 0.10	< 0.10	--	< 0.50	16.8	0.717
MW-312	02/23/16	13.69	578	0.22	6.63	-113.5	8.84	--	--	--	--	--	--	--
MW-312	05/04/16	14.77	539	1.19	6.63	-122.1	4.05	--	--	--	--	--	--	--
MW-312	08/29/16	24.31	480	1.01	6.89	28	0	--	--	--	--	--	--	--
MW-312	12/15/16	13.74	452	0.4	6.74	-121.8	9.47	4	< 0.0400	< 0.0400	--	< 0.500	20.4	0.924
MW-312	03/13/17	12.95	598	0	6.81	-126	0	--	--	--	--	--	--	--
MW-312	06/15/17	15.14	465	0.27	6.68	-106.8	--	--	--	--	--	--	--	--
MW-312	08/23/17	19.07	460	0	7.30	-81	0	--	--	--	--	--	--	--
MW-312	12/07/17	16.15	351	0.88	6.66	-107.7	1.17	2.6	< 0.0400	< 0.0400	--	488	3.95	0.664
MW-312	03/08/18	11.91	501	1.12	6.88	-6.3	0	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-312	06/13/18	15.38	349	1.59	6.58	-106.1	0.92	--	--	--	--	--	--	--
MW-312	09/05/18	20.03	417	0.16	6.55	-72.6	3.75	6	--	--	--	--	--	--
MW-312	12/20/18	14.10	429	0.75	7.29	-45.3	7	2.5	< 0.0400	< 0.0400	--	0.164 J	4.35	0.715
MW-312	03/19/19	12.60	553	0.58	7.74	-41	3	--	--	--	--	--	--	--
MW-312	05/16/19	13.80	524	0.67	6.70	-101.9	2	--	--	--	--	--	--	--
MW-312	09/17/19	13.84	289	0.55	6.54	-31.9	2	--	--	--	--	--	--	--
MW-312	12/12/19	14.76	514	0.36	8.17	-86.4	5	2	<0.0600	<0.0600	--	0.63	22	0.957
MW-312	04/28/20	14.90	596	0.36	7.64	-85.90	4	--	--	--	--	--	--	--
MW-312	06/29/20	15.03	491	0.94	6.39	-25.70	12	--	--	--	--	--	--	--
MW-312	09/21/20	17.50	607	0.33	6.56	-35.30	20	--	--	--	--	--	--	--
MW-312	12/15/20	13.39	571	0.28	7.75	118.20	35	3.00	<0.200	<0.400	--	<1.20	6.93	1.08
MW-312	04/13/21	12.30	286	2.10	6.78	-84.4	17	--	--	--	--	--	--	--
MW-312	06/16/21	8.65	476	2.05	6.93	17.3	3	--	--	--	--	--	--	--
MW-312	09/22/21	16.72	805	2.04	6.62	-30.2	10	--	--	--	--	--	--	--
MW-312	12/16/21	10.85	338	0.04	7.04	35.2	6	--	--	--	<0.150	<0.500	0.115 J	0.83
MW-312	03/29/22	12.62	452	0.03	6.89	158.7	1	--	--	--	--	--	--	--
MW-312	06/29/22	14.50	635	0.78	6.48	10.1	30	--	--	--	--	--	--	--
MW-312	09/20/22	19.81	714	0.32	6.80	361.9	9	--	--	--	--	--	--	--
MW-312	12/13/22	13.20	440	0.24	6.48	-12.9	19	7.0	--	--	<0.100	4.73	0.399 J	0.903
MW-312	03/28/23	12.05	573	0.18	8.38	-68.7	10	--	--	--	--	--	--	--
MW-312	06/14/23	16.40	552	2.13	7.90	-49.8	17	--	--	--	--	--	--	--
MW-312	09/12/23	18.90	543	0.19	6.52	-128.2	1	--	--	--	--	--	--	--
MW-312	12/20/23	15.16	614	0.08	6.37	-21.5	17	5.0	--	--	0.0974 J	<1.5	1.7	1.04
MW-312	03/12/24	9.63	698	2.92	6.85	-13.7	16	--	--	--	--	--	--	--
MW-312	06/18/24	15.20	495	0.09	6.39	-40.2	12	--	--	--	--	--	--	--
MW-312	09/19/24	17.49	497	0.45	6.80	7.8	6	--	--	--	--	--	--	--
MW-312	12/17/24	13.39	510	1.88	6.30	225.8	2	4.0	--	--	<0.100	<1.50	1.06 B	0.689 B
MW-313	08/29/16	21.96	489	1.07	6.88	23	0	--	--	--	--	--	--	--
MW-313	12/12/16	14.13	474	1.04	6.82	-34.9	9.06	--	--	--	--	--	--	--
MW-313	03/13/17	11.30	850	0.03	6.78	-23	3.5	--	--	--	--	--	--	--
MW-313	06/15/17	15.94	374	1.32	6.85	-24.6	--	--	--	--	--	--	--	--
MW-313	08/22/17	23.47	400	8.21	7.39	-62	0	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-313	12/07/17	15.72	395	0.99	6.95	24.8	3.22	--	--	--	--	--	--	--
MW-313	03/07/18	11.05	615	0.89	6.96	36.8	8.42	--	--	--	--	--	--	--
MW-313	06/13/18	16.73	400	0.46	6.76	-44.1	3.02	--	--	--	--	--	--	--
MW-313	09/05/18	20.55	447	0.18	6.76	-29.7	1.34	--	--	--	--	--	--	--
MW-313	12/20/18	14.70	555	1.03	7.07	-52.9	43	--	--	--	--	--	--	--
MW-313	03/19/19	11.10	686	0.73	7.81	-30.4	6	--	--	--	--	--	--	--
MW-313	05/16/19	14.50	781	0.42	7.05	-39.1	10	--	--	--	--	--	--	--
MW-313	09/17/19	15.71	343	0.71	6.65	-25.3	7	--	--	--	--	--	--	--
MW-313	12/12/19	14.86	574	0.64	7.99	-55.7	5	--	--	--	--	--	--	--
MW-313	04/27/20	15.60	683	1.21	7.87	3.40	11	--	--	--	--	--	--	--
MW-313	06/29/20	16.33	486	1.81	6.73	-74.50	32	--	--	--	--	--	--	--
MW-313	09/21/20	18.70	605	0.55	6.84	21.90	13	--	--	--	--	--	--	--
MW-313	12/15/20	13.54	718	0.22	7.93	109.70	69	--	--	--	--	--	--	--
MW-313	04/13/21	12.90	250	2.02	6.85	-69.0	48	--	--	--	--	--	--	--
MW-313	06/16/21	9.60	441	0.99	7.38	30.4	38	--	--	--	--	--	--	--
MW-313	09/22/21	17.25	668	1.34	6.95	-41.6	28	--	--	--	--	--	--	--
MW-313	12/16/21	11.89	401	0.19	7.16	30.7	80	--	--	--	--	--	--	--
MW-313	03/29/22	11.77	390	0.10	7.10	141.2	10	--	--	--	--	--	--	--
MW-313	06/28/22	17.40	631	1.12	6.65	10.8	154	--	--	--	--	--	--	--
MW-313	09/20/22	21.00	573	0.05	6.99	378.8	24	--	--	--	--	--	--	--
MW-313	12/13/22	11.68	548	0.15	6.38	-28.6	81	--	--	--	--	--	--	--
MW-313	03/28/23	10.12	553	1.48	8.42	-38.5	50	--	--	--	--	--	--	--
MW-313	06/14/23	16.96	632	0.32	8.03	-50.7	56	--	--	--	--	--	--	--
MW-313	09/12/23	20.47	440	0.22	6.70	28.4	41	--	--	--	--	--	--	--
MW-313	12/20/23	13.07	769	0.13	6.53	9.0	32	--	--	--	--	--	--	--
MW-313	03/12/24	10.34	600	3.59	7.03	24.3	50	--	--	--	--	--	--	--
MW-313	06/18/24	15.10	500	0.09	6.44	4.5	43	--	--	--	--	--	--	--
MW-313	09/19/24	18.35	367	0.93	6.77	79.7	10	--	--	--	--	--	--	--
MW-313	12/17/24	12.00	576	2.86	7.74	68.9	35	--	--	--	--	--	--	--
MW-314	08/30/16	20.60	565	1.23	6.87	82	8.52	--	--	--	--	--	--	--
MW-314	12/14/16	13.42	471	0.52	6.73	-90.3	9.44	--	--	--	--	--	--	--
MW-314	03/13/17	12.34	626	0	6.73	-53	3.9	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature	Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	Ferrous Iron	Nitrogen, Nitrate	Nitrogen, Nitrite	Nitrite Nitrate as N	Sulfate	Iron Dissolved	Manganese Dissolved
		°C	µS/cm	mg/L		mv	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-314	06/14/17	18.28	447	0.46	7.07	-87.9	8.2	--	--	--	--	--	--	--
MW-314	08/23/17	18.35	453	0	7.33	-35	3.6	--	--	--	--	--	--	--
MW-314	12/06/17	14.00	413	0.68	6.56	-62.5	4.2	--	--	--	--	--	--	--
MW-314	03/07/18	11.95	583	0.9	6.84	23.5	8.42	--	--	--	--	--	--	--
MW-314	06/12/18	15.92	455	0.74	6.70	-110	2.91	--	--	--	--	--	--	--
MW-314	09/05/18	18.90	427	0.4	6.49	-40.8	4.24	--	--	--	--	--	--	--
MW-314	12/20/18	14.70	567	0.16	6.79	-87	29	--	--	--	--	--	--	--
MW-314	03/19/19	11.40	564	0.97	7.12	-32.4	48	--	--	--	--	--	--	--
MW-314	05/16/19	11.01	714	0.77	6.27	-61	79	--	--	--	--	--	--	--
MW-314	09/17/19	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-314	12/10/19	13.97	725	1.55	5.67	-36	7	--	--	--	--	--	--	--
MW-314	04/28/20	13.20	749	0.44	7.55	-53.60	7	--	--	--	--	--	--	--
MW-314	06/29/20	18.27	639	1.02	6.53	-29.80	16	--	--	--	--	--	--	--
MW-314	09/22/20	16.50	758	0.49	6.28	22.60	16	--	--	--	--	--	--	--
MW-314	12/15/20	13.53	800	0.15	7.78	114.80	35	--	--	--	--	--	--	--
MW-314	04/13/21	10.70	272	2.02	6.54	-7.9	58	--	--	--	--	--	--	--
MW-314	03/28/22	12.03	731	0.06	7.77	76.2	83	--	--	--	--	--	--	--
MW-314	06/28/22	15.70	819	0.46	6.36	-58.1	14	--	--	--	--	--	--	--
MW-314	09/20/22	19.23	638	0.10	6.48	351.7	13	--	--	--	--	--	--	--
MW-314	03/27/23	11.49	699	0.60	8.17	21.0	54	--	--	--	--	--	--	--
MW-314	06/14/23	16.38	720	2.6	7.63	-56.9	25	--	--	--	--	--	--	--
MW-314	12/20/23	12.58	269	0.21	6.31	-17.6	30	--	--	--	--	--	--	--
MW-314	06/19/24	14.81	693	0.05	6.47	40.3	17	--	--	--	--	--	--	--
MW-314	12/17/24	13.30	856	2.03	6.01	305.8	8	--	--	--	--	--	--	--
MW-315	08/29/16	20.56	558	1.04	6.86	2	8.44	--	--	--	--	--	--	--
MW-315	12/12/16	12.07	488	1.45	6.74	-102	0	--	--	--	--	--	--	--
MW-315	03/13/17	12.81	522	0	6.77	-117	0	--	--	--	--	--	--	--
MW-315	06/15/17	14.20	450	1.27	7.21	-99	--	--	--	--	--	--	--	--
MW-315	08/23/17	18.20	465	0	7.30	-68	0	--	--	--	--	--	--	--
MW-315	12/07/17	14.59	372	0.84	6.68	-28.7	0	--	--	--	--	--	--	--
MW-315	03/08/18	11.74	448	1.34	6.84	20.7	0	--	--	--	--	--	--	--
MW-315	06/13/18	15.32	325	1	6.58	-41.5	0	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-315	09/05/18	18.81	378	0.12	6.39	-28.8	0.54	--	--	--	--	--	--	--
MW-315	12/20/18	14.50	460	0.32	7.15	-92	5	--	--	--	--	--	--	--
MW-315	03/18/19	14.70	497	0.81	6.74	-65.4	3	--	--	--	--	--	--	--
MW-315	05/16/19	13.60	508	0.2	6.83	-64.3	3	--	--	--	--	--	--	--
MW-315	09/17/19	13.01	311	0.58	6.37	-41.8	4	--	--	--	--	--	--	--
MW-315	12/12/19	14.40	587	0.79	7.98	-67.8	3	--	--	--	--	--	--	--
MW-315	04/27/20	14.80	591	0.53	7.67	-70	8	--	--	--	--	--	--	--
MW-315	06/29/20	14.30	584	0.64	6.92	189.80	9	--	--	--	--	--	--	--
MW-315	09/21/20	16.70	589	0.25	6.43	-26.20	14	--	--	--	--	--	--	--
MW-315	12/15/20	13.69	588	0.09	7.80	119.30	43	--	--	--	--	--	--	--
MW-315	04/13/21	13.10	289	2.23	6.65	-68.2	22	--	--	--	--	--	--	--
MW-315	06/16/21	8.01	501	1.37	6.79	0.9	3	--	--	--	--	--	--	--
MW-315	09/22/21	17.62	785	1.14	6.45	-19.0	10	--	--	--	--	--	--	--
MW-315	12/16/21	10.40	304	1.36	7.31	-8.2	10	--	--	--	--	--	--	--
MW-315	03/29/22	12.06	519	0.08	7.21	134.1	3	--	--	--	--	--	--	--
MW-315	06/28/22	14.40	583	0.48	6.44	-86.4	15	--	--	--	--	--	--	--
MW-315	09/20/22	17.79	634	0.10	7.32	356.7	5	--	--	--	--	--	--	--
MW-315	12/13/22	11.90	570	0.25	6.29	-23.1	87	--	--	--	--	--	--	--
MW-315	03/28/23	12.07	645	0.18	7.70	-76.2	14	--	--	--	--	--	--	--
MW-315	06/14/23	14.23	663	1.36	7.34	-43	20	--	--	--	--	--	--	--
MW-315	09/12/23	17.38	553	0.09	6.37	-112	8	--	--	--	--	--	--	--
MW-315	12/20/23	14.16	579	0.92	6.31	45.3	6	--	--	--	--	--	--	--
MW-315	03/12/24	10.85	630	2.82	6.96	-13.7	3	--	--	--	--	--	--	--
MW-315	06/19/24	16.15	583	0.02	6.47	-14.0	15	--	--	--	--	--	--	--
MW-315	09/19/24	16.58	499	1.00	6.63	54.2	11	--	--	--	--	--	--	--
MW-315	12/17/24	13.37	490	2.62	7.26	18.7	3	--	--	--	--	--	--	--
SH-04	05/05/16	14.18	129	1.43	6.47	-107.3	8.73	--	--	--	--	--	--	--
SH-04	12/14/16	8.88	133	0.39	6.41	-48.2	7.21	--	--	--	--	--	--	--
SH-04	06/14/17	17.02	116	0.27	6.33	52.7	1.67	--	--	--	--	--	--	--
SH-04	12/05/17	15.32	134	0.71	6.72	-65.4	3.51	--	--	--	--	--	--	--
SH-04	06/13/18	16.50	140	0.47	6.12	-54.2	1.05	--	--	--	--	--	--	--
SH-04	12/18/18	12.30	180	1.05	7.31	-30.6	19	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature	Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	Ferrous Iron	Nitrogen, Nitrate	Nitrogen, Nitrite	Nitrite Nitrate as N	Sulfate	Iron Dissolved	Manganese Dissolved
		°C	µS/cm	mg/L		mv	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SH-04	05/16/19	9.31	226	0.91	5.71	-126	13	--	--	--	--	--	--	--
SH-04	12/11/19	14.43	391	0.63	7.51	-12.1	19	--	--	--	--	--	--	--
SH-04	06/29/20	14.40	219	0.49	6.46	215.30	8	--	--	--	--	--	--	--
SH-04	12/14/20	14.00	371	0.29	7.56	151.80	21	--	--	--	--	--	--	--
SH-04	06/15/21	8.75	190	0.94	7.00	57.0	6	--	--	--	--	--	--	--
SH-04	12/15/21	11.60	140	0.15	9.84	-77.1	6	--	--	--	--	--	--	--
SH-04	04/18/22	9.00	220	0.09	8.12	64.6	39	--	--	--	--	--	--	--
SH-04	06/28/22	16.90	198	0.49	6.02	-11.9	16	--	--	--	--	--	--	--
SH-04	12/13/22	9.50	90	0.08	6.41	-25.2	20	--	--	--	--	--	--	--
SH-04	06/13/23	15.31	149	4.44	7.32	-48.1	18	--	--	--	--	--	--	--
SH-04	12/19/23	10.14	243	0.66	6.14	24.3	18	--	--	--	--	--	--	--
SH-04	06/18/24	14.42	352	0.20	6.34	206.1	19	--	--	--	--	--	--	--
SH-04	12/17/24	12.58	360	2.58	7.12	36.7	10	--	--	--	--	--	--	--
TX-03A	01/13/04	14.00	480	1.4	6.39	-59	1.8	--	--	--	--	--	--	--
TX-03A	04/19/04	13.70	560	1.44	6.18	21	2.4	6	--	--	--	< 1	--	--
TX-03A	07/27/04	17.90	589	1.31	6.26	68	3	--	--	--	--	--	--	--
TX-03A	10/18/04	16.70	595	2.77	6.63	-100	42	--	--	--	--	--	--	--
TX-03A	01/24/05	14.60	563	1.79	5.11	5	43.1	--	--	--	--	--	--	--
TX-03A	04/19/05	13.80	552	0	6.47	-86	20	4	--	--	--	< 1	--	--
TX-03A	07/12/05	17.30	477	0.16	6.55	-121	55.6	--	--	--	--	--	--	--
TX-03A	10/31/07	--	--	--	--	--	--	--	--	--	--	--	--	--
TX-03A	11/20/08	15.80	821	0.49	6.87	-59	31.8	30.4	--	--	--	< 1	--	--
TX-03A	04/08/09	12.84	236	0	6.58	-145	43.1	--	--	--	--	--	--	--
TX-03A	11/17/09	16.30	50.6	1.29	6.39	-102	9.7	36	--	--	--	1.2	--	--
TX-03A	04/27/10	13.20	52.8	0.21	5.76	-153	9.5	--	--	--	--	--	--	--
TX-03A	10/25/10	15.50	42.5	1.39	6.68	-115	48	30	--	--	--	6.8	--	--
TX-03A	05/23/11	--	--	--	--	--	--	--	--	--	--	--	--	--
TX-03A	10/27/11	15.44	478	1.72	8.50	-100.9	--	20.3	--	--	--	< 0.50	--	--
TX-03A	03/01/12	12.29	564	0	6.71	-118	12.6	--	--	--	--	--	--	--
TX-03A	06/12/12	14.00	507	4	7.19	-103	4.5	--	--	--	--	--	--	--
TX-03A	09/25/12	17.83	514	0	6.48	-139	15.2	--	--	--	--	--	--	--
TX-03A	11/28/12	13.79	439	0	6.70	-104	--	--	--	--	--	< 0.50	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature	Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	Ferrous Iron	Nitrogen, Nitrate	Nitrogen, Nitrite	Nitrite Nitrate as N	Sulfate	Iron Dissolved	Manganese Dissolved
		°C	µS/cm	mg/L		mv	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TX-03A	11/05/13	10.98	528	0.06	6.57	-114	0	4	--	--	--	< 0.50	< 0.200	0.47
TX-03A	11/04/14	16.80	424	0.38	6.49	-39	5.83	6	< 0.10	< 0.10	--	< 0.50	6.18	0.523
TX-03A	12/10/15	15.11	456	0.25	6.51	-103.5	6.7	0.5	< 0.10	< 0.10	--	< 0.50	31.7	0.5
TX-03A	02/22/16	12.73	484	0.3	6.34	-109.1	7.22	--	--	--	--	--	--	--
TX-03A	05/02/16	15.06	418	0.22	6.36	-103.1	3.96	--	--	--	--	--	--	--
TX-03A	08/29/16	18.69	395	2.27	6.84	18	0	--	--	--	--	--	--	--
TX-03A	12/15/16	12.31	295	0.29	6.54	-109.9	8.97	2	< 0.0400	< 0.0400	--	< 0.500	37.8	0.517
TX-03A	03/13/17	11.74	287	0.23	6.74	-109.5	0	--	--	--	--	--	--	--
TX-03A	06/13/17	14.63	322	0.24	6.32	-98	--	--	--	--	--	--	--	--
TX-03A	08/22/17	18.97	317	0	7.07	-87	0	--	--	--	--	--	--	--
TX-03A	12/05/17	13.23	477	1.83	6.57	-104.1	2.77	1.5	< 0.0400	< 0.0400	--	219	25.1	0.784
TX-03A	03/27/18	12.27	465	0.65	6.19	71.9	3.37	--	--	--	--	--	--	--
TX-03A	06/13/18	15.40	407	4.12	6.07	-82.4	0.69	--	--	--	--	--	--	--
TX-03A	09/06/18	19.90	551	0.14	6.24	-76.8	1.26	--	--	--	--	--	--	--
TX-03A	12/20/18	16.50	369	0.1	6.67	-116	16	4.5	< 0.0400	< 0.0400	--	19	6.46	0.465
TX-03A	03/19/19	13.90	550	0.45	7.55	-67.1	8	--	--	--	--	--	--	--
TX-03A	05/16/19	12.64	538	0.51	6.11	-84	12	--	--	--	--	--	--	--
TX-03A	09/17/19	16.79	348	0.97	6.41	3.1	8	--	--	--	--	--	--	--
TX-03A	12/11/19	16.75	1514	1.86	8.64	-94	5	3	<0.0600 J	<0.0600 J	--	704	104	2.99
TX-03A	04/28/20	14.10	881	0.46	7.50	-65.10	12	--	--	--	--	--	--	--
TX-03A	06/29/20	16.13	577	1.24	6.36	-20.20	13	--	--	--	--	--	--	--
TX-03A	09/21/20	18.10	505	0.32	6.22	74	15	--	--	--	--	--	--	--
TX-03A	12/15/20	13.20	501	0.31	7.59	114.00	15	2.40	<0.200	<0.400	--	42.30	26.20	1.16
TX-03A	04/12/21	11.60	259	1.91	6.26	-6.2	40	--	--	--	--	--	--	--
TX-03A	06/16/21	9.02	416	1.35	7.60	39.3	3	--	--	--	--	--	--	--
TX-03A	09/23/21	17.45	633	1.17	6.09	-5.6	7	--	--	--	--	--	--	--
TX-03A	03/28/22	12.57	540	0.12	7.24	126.9	12	--	--	--	--	--	--	--
TX-03A	06/28/22	15.40	521	0.5	6.49	-91.2	14	--	--	--	--	--	--	--
TX-03A	09/21/22	16.84	473	0.41	7.29	348.7	29	--	--	--	--	--	--	--
TX-03A	12/13/22	14.22	368	0.25	6.43	-49.9	8	7.0	--	--	<1.00	8.86	0.109 J	0.927
TX-03A	03/27/23	12.92	494	0.28	7.52	-64.4	19	--	--	--	--	--	--	--
TX-03A	06/14/23	16.15	441	0.89	7.21	-49.4	18	--	--	--	--	--	--	--
TX-03A	09/12/23	18.21	372	0.16	6.50	-109.7	1	--	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	Sample Date	Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Nitrite Nitrate as N mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
TX-03A	12/20/23	14.33	339	0.79	6.42	-24.3	17	2.0	--	--	0.121 J	<1.5	0.36 J	0.803
TX-03A	03/11/24	11.84	378	2.82	6.76	-5.8	8	--	--	--	--	--	--	--
TX-03A	06/19/24	15.30	345	0.27	6.23	218.3	13	--	--	--	--	--	--	--
TX-03A	09/19/24	17.50	327	0.85	6.84	-29.2	9	--	--	--	--	--	--	--
TX-03A	12/17/24	12.22	289	2.63	7.26	15.2	13	2.5	--	--	0.0617 J	1.03 J	<0.500	0.525 B
TES-MW-1	12/13/16	8.37	99	7.01	5.86	89	0	--	--	--	--	--	--	--
TES-MW-1	12/06/17	10.00	69	6.02	5.67	39.9	5.7	--	--	--	--	--	--	--
TES-MW-1	12/19/18	11.20	172	1.3	6.68	-96	24	--	--	--	--	--	--	--
TES-MW-1	12/09/19	13.42	172	6.2	6.51	63.9	11	--	--	--	--	--	--	--
TES-MW-1	12/16/20	12.07	98	0.92	7.72	135.70	36	--	--	--	--	--	--	--
TES-MW-1	12/14/21	11.20	93	0.70	7.71	132.1	34	--	--	--	--	--	--	--
TES-MW-1	12/12/22	11.24	430	0.61	6.89	130.7	1	--	--	--	--	--	--	--
TES-MW-1	12/19/23	12.39	90	5.91	5.63	147.3	2	--	--	--	--	--	--	--
TES-MW-1	12/16/24	12.26	106	3.54	6.96	379.3	3	--	--	--	--	--	--	--
TX-04	12/12/16	10.65	353	0.82	7.02	-108	0	--	--	--	--	--	--	--
TX-04	12/05/17	12.06	167	0.68	7.01	-10.8	23.2	--	--	--	--	--	--	--
TX-04	12/18/18	14.50	233	1.26	7.69	-48.3	44	--	--	--	--	--	--	--
TX-04	12/12/19	14.81	295	0.44	8.46	-83.3	14	--	--	--	--	--	--	--
TX-04	12/14/20	14.54	334	0.17	7.81	136.90	7	--	--	--	--	--	--	--
TX-04	12/15/21	10.40	207	0.21	8.32	-3.0	17	--	--	--	--	--	--	--
TX-04	12/13/22	12.40	199	0.07	6.40	-47.2	77	--	--	--	--	--	--	--
TX-04	12/19/23	13.95	185	0.11	6.53	-11.2	42	--	--	--	--	--	--	--
TX-04	12/17/24	11.72	313	1.95	6.39	202.1	24	--	--	--	--	--	--	--
TX-06A	12/12/16	11.95	212	0.55	6.55	-97.3	6.56	--	--	--	--	--	--	--
TX-06A	12/05/17	14.43	248	1.15	6.69	-63.6	5.63	--	--	--	--	--	--	--
TX-06A	12/20/18	14.50	257	0.17	6.76	-99	11	--	--	--	--	--	--	--
TX-06A	12/10/19	13.58	230	4.49	5.62	8.6	12	--	--	--	--	--	--	--
TX-06A	12/14/20	13.92	341	0.20	7.74	123.80	17	--	--	--	--	--	--	--
TX-06A	12/15/21	12.10	174	0.25	7.85	9.5	10	--	--	--	--	--	--	--
TX-06A	12/19/23	12.61	1,147	0.07	6.22	3.6	64	2.0	--	--	--	--	--	--

Table 5

Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

		Field Parameters							Laboratory Parameters					
Sample ID	**Sample Date**	**Temperature** °C	**Conductivity** µS/cm	**Dissolved Oxygen** mg/L	**pH**	**ORP** mv	**Turbidity** NTU	**Ferrous Iron** mg/L	**Nitrogen, Nitrate** mg/L	**Nitrogen, Nitrite** mg/L	**Nitrite Nitrate as N** mg/L	**Sulfate** mg/L	**Iron Dissolved** mg/L	**Manganese Dissolved** mg/L
TX-06A	12/16/24	13.70	571	1.87	6.18	389.4	109	--	--	--	--	--	--	--

Notes:

= Indicates data collected during this progress report period

°C = degrees Celsius

B = indicates compound was found in the blank and sample

J = indicates a estimated value

J+ = The result is an estimated quantity, but the result may be biased high.

< = not detected at or above the indicated limit. Beginning June 12, 2012, limits shown are laboratory Method Detection Limits (MDLs). Prior to June 12, 2012, limits shown are laboratory Reporting Limits (RLs).

mg/L = milligrams per liter

mV = millivolts

NM = not measured

NTU = nephelometric turbidity unit

ORP = oxidation-reduction potential

µS/cm = microsiemens per centimeter

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-05	01/15/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.37	< 0.5	--
MW-05	04/21/04	0.0015	< 0.001	0.0053	< 0.001	< 0.25	0.41	< 0.5	--
MW-05	07/28/04	0.0015	0.001	< 0.001	0.0017	< 0.25	< 0.25	< 0.5	--
MW-05	10/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-05	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-05	04/18/05	< 0.001	< 0.001	< 0.001	< 0.001	0.072	< 0.25	< 0.5	--
MW-05	07/12/05	< 0.001	< 0.001	< 0.001	< 0.001	0.25	< 0.25	< 0.5	--
MW-05	10/19/05	< 0.001	< 0.001	< 0.001	< 0.001	0.11	< 0.25	< 0.5	--
MW-05	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	< 0.238	< 0.476	--
MW-05	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.25	< 0.5	--
MW-05	11/17/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-05	10/29/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.14	< 0.1	--
MW-05	05/23/11	<.0003	<.0005	<.0003	<.0007	0.0744	--	--	--
MW-05	10/25/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	0.115	< 0.095	< 0.19	--
MW-05	11/29/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0954	< 0.095	--
MW-05	11/07/13	< 0.00020	0.00083 J	< 0.00020	0.00087 J	0.345	< 0.049	< 0.097	--
MW-05	11/06/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	0.0507 J	0.137	< 0.094	--
MW-05	12/08/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	< 0.233	< 0.388	--
MW-05	05/04/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000162	70.9 J	< 0.0398	< 0.0598	--
MW-05	12/14/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	< 0.0436	< 0.0654	--
MW-05	06/14/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.0860	< 0.129	--
MW-05	12/07/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.0968 J	0.105 J	< 0.121	--
MW-05	06/12/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.114	< 0.124	--
MW-05	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.230 J	0.119 J	--
MW-05	05/15/19	< 0.000200	< 0.000170	< 0.000190	< 0.000580	0.0589	< 0.108	< 0.118	--
MW-05	12/10/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.111 J	< 0.121	--
MW-05	06/30/20	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.113	< 0.124	--
MW-05	12/14/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	0.163	<0.340	--
MW-05	06/15/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.240	<0.401	--
MW-05	12/15/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.254	<0.424	--
MW-05	04/18/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.235	<0.392	--
MW-05	06/29/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.243	<0.405	--
MW-05	12/14/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.387	0.191 J	--
MW-05	06/13/23	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.241	<0.401	--
MW-05	12/18/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.100	0.238	0.680	--
MW-05	06/17/24	<0.00100	<0.00100	<0.00100	<0.00200	<0.150	0.122 J	0.224 J	--
MW-05	12/18/24	<0.00100	<0.00100	<0.00100	<0.00200	<0.150	<0.208	0.154 J	--
MW-101	01/16/04	< 0.001	< 0.001	< 0.001	0.0028	0.55	< 0.25	< 0.5	--
MW-101	04/20/04	0.0016	< 0.001	< 0.001	0.0014	0.67	< 0.25	< 0.5	--
MW-101	07/28/04	0.0012	< 0.001	< 0.001	0.0011	1.0	< 0.25	< 0.5	--
MW-101	10/18/04	0.0011	< 0.001	< 0.001	< 0.001	0.42	< 0.25	< 0.5	--
MW-101	01/26/05	< 0.001	< 0.001	< 0.001	0.0011	0.51	< 0.25	< 0.5	--
MW-101	04/19/05	0.0016	< 0.001	< 0.001	< 0.001	0.58	< 0.25	< 0.5	--
MW-101	07/13/05	< 0.001	< 0.001	< 0.001	< 0.001	0.31	< 0.25	< 0.5	--
MW-101	10/10/05	< 0.001	< 0.001	< 0.001	< 0.001	0.16	< 0.25	< 0.5	--
MW-101	01/27/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	0.223	< 0.236	< 0.476	--
MW-101	11/18/08	< 0.005	< 0.005	< 0.005	< 0.005	0.1	< 0.25	< 0.5	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-101	11/18/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-101	10/26/10	< 0.0005	< 0.001	< 0.001	< 0.001	0.15	0.13	< 0.1	--
MW-101	10/27/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	0.0936	< 0.10	< 0.20	--
MW-101	11/26/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	0.188 J	0.0937 J	< 0.10	--
MW-101	11/06/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	0.118 J	< 0.0048	< 0.0095	--
MW-101	11/04/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.0048	< 0.0095	--
MW-101	12/09/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	0.129	< 0.201	--
MW-101	12/13/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.101	0.0983 J	< 0.0632	--
MW-101	12/06/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.237	0.246 J	< 0.127	--
MW-101	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.127 J	0.157 J	< 0.115	--
MW-101	12/09/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.155 J	< 0.125	--
MW-101	12/16/20	<0.00020 J	<0.0002 J	<0.00020 J	<0.0005 J	<0.250	<0.238	<0.397	--
MW-101	12/14/21	<0.000400	<0.00100	<0.00100	<0.00300	0.433	0.305	0.128 J	--
MW-101	12/12/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.247	<0.411	--
MW-101	12/19/23	<0.00100	<0.00100	<0.00100	<0.00200	0.208	0.139	0.127 J	--
MW-101	12/16/24	<0.00100	<0.00100	<0.00100	<0.00200	0.322	2.85	0.480	--
MW-102	01/14/04	0.0021	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-102	04/21/04	0.0036	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-102	07/28/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-102	10/18/04	0.0011	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-102	01/25/05	0.0024	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-102	04/18/05	0.0027	< 0.001	< 0.001	< 0.001	< 0.05	< 0.25	< 0.5	--
MW-102	07/13/05	< 0.001	< 0.001	< 0.001	< 0.001	0.077	< 0.25	< 0.5	--
MW-102	10/19/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	< 0.25	< 0.5	--
MW-102	01/26/06	0.00498	< 0.0005	0.00174	0.00201	< 0.05	< 0.238	< 0.472	--
MW-102	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.25	< 0.5	--
MW-102	11/18/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-102	10/28/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-102	10/26/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	0.113	< 0.20	--
MW-102	11/28/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.050	< 0.10	--
MW-102	11/07/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.047	0.144 J	--
MW-102	11/04/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0568 J	< 0.094	--
MW-102	12/08/15	< 0.0020	< 0.0010	< 0.0010	< 0.0030	< 0.100	< 0.233	< 0.388	--
MW-102	12/14/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	< 0.0413	< 0.0620	--
MW-102	12/05/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.0834	< 0.125	--
MW-102	12/05/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.0834	< 0.125	--
MW-102	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.774	0.197 J	--
MW-102	12/10/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.151 J	<0.123	--
MW-102	12/16/20	<0.00020 J	<0.0002 J	<0.00020 J	<0.0005 J	<0.250	<0.248	<0.413	--
MW-102	12/16/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.240	<0.401	--
MW-102	12/12/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.226	0.143 J	--
MW-102	12/18/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.100	0.0869 J	0.133 J	--
MW-102	12/16/24	<0.00100	<0.00100	<0.00100	<0.00200	<0.150	0.440	0.356 J	--
MW-104	01/15/04	0.0019	< 0.001	0.15	0.1028	**2.7**	1.2	< 0.5	0.00555
MW-104	01/15/04	0.0012	< 0.001	0.1	0.0706	**2**	1.3	< 0.5	< 0.005
MW-104	04/21/04	0.0066	0.0025	0.35	0.0931	**4.3**	1.7	< 0.5	0.00575

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-104	07/28/04	0.0018	< 0.001	0.048	0.017	**2.2**	0.87	< 0.5	< 0.005
MW-104	07/28/04	0.0017	< 0.001	0.049	0.019	**2.1**	1.3	< 0.5	< 0.005
MW-104	10/19/04	< 0.001	< 0.001	0.0021	0.0016	< 0.25	0.61	< 0.5	< 0.005
MW-104	01/24/05	< 0.001	< 0.001	0.0012	< 0.001	< 0.25	0.74	< 0.5	< 0.005
MW-104	04/18/05	< 0.001	< 0.001	0.057	0.0067	**1.4**	1.2	< 0.5	< 0.005
MW-104	07/12/05	0.0014	< 0.001	0.11	0.012	**1.8**	0.7	< 0.5	< 0.005
MW-104	10/19/05	< 0.001	< 0.001	0.024	0.0049	0.29	0.62	< 0.5	< 0.005
MW-104	01/25/06	0.00245	0.00129	0.33	0.0273	**2.07**	3.73	< 0.962	0.0077
MW-104	10/30/07	--	--	--	--	**1.25**	--	--	< 0.002
MW-104	05/20/08	--	--	--	--	**4.00**	2.10	< 0.5	--
MW-104	11/18/08	--	--	--	--	0.13	0.69	< 0.5	< 0.005
MW-104	04/08/09	--	--	--	--	**1.80**	1.60	< 0.1	0.00326
MW-104	11/17/09	< 0.0005	< 0.001	0.0016	< 0.001	0.21	0.17	< 0.1	0.00778
MW-104	04/27/10	--	--	--	--	**3.90**	2.50	0.27	0.00232
MW-104	10/26/10	--	--	--	--	0.23	0.23	< 0.1	--
MW-104	05/23/11	<0.0006	0.003	0.104	0.0018	**4.44**	0.45	<0.097	< 0.01
MW-104	10/25/11	--	--	--	--	**3.38**	0.413	< 0.20	< 0.01
MW-104	03/01/12	0.00079 J	0.0015	0.0467	0.0016 J	**3.69**	--	--	--
MW-104	06/13/12	--	--	--	--	**4.78**	0.423	< 0.10	< 0.01
MW-104	09/26/12	0.00066 J	0.0024	0.0509	0.0019 J	**4.54**	--	--	--
MW-104	11/29/12	0.00038 J	0.00037 J	0.0113	< 0.00046	0.592	0.315	< 0.098	--
MW-104	05/14/13	--	--	--	--	**5.07**	0.601	< 0.096	< 0.01
MW-104	11/07/13	--	--	--	--	**3.62**	0.666 J	< 0.095	< 0.01
MW-104	04/24/14	--	--	--	--	**5.68**	1.13	0.100 J	< 0.01
MW-104	11/05/14	--	--	--	--	0.441	0.527	0.221	< 0.01
MW-104	05/20/15	--	--	--	--	**2.82**	0.686	< 0.097	< 0.01
MW-104	12/09/15	--	--	--	--	< 0.100	0.408	< 0.398	< 0.00200
MW-104	05/05/16	--	--	--	--	**7.45**	2.85	0.144 J	0.00285
MW-104	12/14/16	--	--	--	--	**3.61**	2.22	0.155 J	0.000902 J
MW-104	06/14/17	--	--	--	--	**4.85**	2.9	0.159 J	0.00444
MW-104	12/07/17	< 0.0000993	< 0.000312	0.00411	< 0.000442	0.53	1.34	0.126 J	--
MW-104	06/12/18	--	--	--	--	**3.04**	1.86	< 0.122	0.00207 J
MW-104	12/19/18	--	--	--	--	0.552	2.25	0.967	0.00185 J
MW-104	05/15/19	--	--	--	--	**2.59**	1.64	0.316 J	0.00163 J
MW-104	12/10/19	--	--	--	--	0.956	0.713	< 0.122	< 0.000995
MW-104	06/30/20	--	--	--	--	**1.02**	0.914	0.117 J	0.00408
MW-104	12/14/20	<0.00020	<0.0002	0.00171	<0.0005	0.487	1.56	1.31	<0.004
MW-104	06/15/21	--	--	--	--	0.948	0.753	<0.395	<0.0600
MW-104	12/15/21	--	--	--	--	0.300	0.456	0.175 J	<0.0600
MW-104	04/18/22	--	--	--	--	0.896	0.503	<0.393	<0.0600
MW-104	06/29/22	<0.000400	<0.00100	0.00106	<0.00300	0.648	0.381	<0.413	<0.0600
MW-104	12/14/22	--	--	--	--	0.153	2.57	1.01	<0.0600
MW-104	06/13/23	--	--	--	--	0.160	0.261	<0.393	0.00195 J
MW-104	12/19/23	--	--	--	--	0.466	1.68	1.14	0.00118 J
MW-104	06/19/24	--	--	--	--	**1.20**	1.24	0.856	0.00368
MW-104	12/18/24	--	--	--	--	0.0979 J	0.152 J	0.166 J	0.00305
MW-105	01/15/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	1.4	< 0.5	0.00647

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	**Sample Date**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**TPHg**	**TPHd**	**TPHo**	**Total**
Site-Specific Cleanup Level*		**0.071**	**200**	**29**	**NE**	**1**	**10**	**10**	**0.0058**
		mg/L	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
MW-105	04/21/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.65	< 0.5	0.00793
MW-105	07/27/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	2.2	< 0.5	0.0128
MW-105	10/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	1.8	< 0.5	0.0311
MW-105	01/24/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	3	< 0.5	0.00824
MW-105	04/18/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	1.3	0.78	0.00615
MW-105	07/12/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	1.7	< 0.5	< 0.005
MW-105	10/18/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	1.7	0.66	< 0.005
MW-105	01/25/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	3.95	< 0.962	0.00321
MW-105	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	--	--	< 0.005
MW-105	11/17/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.17	< 0.1	0.021
MW-105	10/26/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	--	--	--
MW-105	10/25/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	0.253	< 0.20	< 0.01
MW-105	11/26/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.291	< 0.098	< 0.01
MW-105	11/07/13	< 0.00020	< 0.00020	< 0.00020	< 0.000046	< 0.050	0.189	< 0.095	**0.0179**
MW-105	11/05/14	< 0.00020	< 0.00020	< 0.00020	< 0.000046	< 0.050	0.377	0.192	< 0.01
MW-105	12/08/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	0.406	0.408	**0.0152**
MW-105	12/14/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	0.850	0.377	**0.0116**
MW-105	12/06/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.146 J	0.624	0.176 J	< 0.00200
MW-105	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.672	0.737	0.0107
MW-105	12/11/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.388	0.382 J	**0.00754**
MW-105	12/14/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	1.81	0.972	0.00421
MW-105	12/15/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.523	0.670	**0.0324 J**
MW-105	12/14/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	1.25	0.679	**0.0143 J**
MW-105	12/18/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.100	1.47	1.29	**0.0336**
MW-105	12/17/24	<0.00100	<0.00100	<0.00100	<0.00200	<0.150	0.153 J	0.416	**0.00921**
MW-111	01/15/04	0.047	< 0.001	< 0.001	< 0.001	< 0.25	0.98	< 0.5	--
MW-111	04/21/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.48	< 0.5	--
MW-111	07/27/04	0.015	< 0.001	< 0.001	0.0012	< 0.25	0.45	< 0.5	--
MW-111	10/19/04	0.036	0.0012	< 0.001	0.0035	0.35	0.45	< 0.5	--
MW-111	01/25/05	**0.079**	< 0.005	< 0.005	< 0.005	0.58 J	0.63	< 0.5	--
MW-111	04/18/05	< 0.001	< 0.001	< 0.001	< 0.001	0.096	< 0.25	< 0.5	--
MW-111	07/12/05	0.0094	< 0.001	< 0.001	< 0.001	0.23	0.26	< 0.5	--
MW-111	10/18/05	0.017	< 0.001	< 0.001	0.0013	0.26	0.27	< 0.5	--
MW-111	01/25/06	**0.0956**	0.00189	0.000796	0.0037	0.683	0.998	< 0.481	--
MW-111	11/19/08	0.014	< 0.005	< 0.005	< 0.005	0.230	0.370	< 0.5	--
MW-111	11/17/09	0.041	< 0.001	< 0.001	< 0.001	0.240	0.110	< 0.1	--
MW-111	10/26/10	0.0043	< 0.001	< 0.001	< 0.001	< 0.1	0.120	< 0.1	--
MW-111	05/23/11	0.00064	<.0005	<.0003	<.0007	<0.050	--	--	--
MW-111	10/25/11	0.00094	< 0.0010	< 0.0010	< 0.0020	< 0.20	0.122	< 0.20	--
MW-111	11/29/12	0.0248	0.001	< 0.00020	0.0012 J	0.371	0.269	< 0.10	--
MW-111	11/07/13	**0.0845**	0.001	0.00023 J	0.00069 J	0.208	0.174	< 0.095	--
MW-111	11/05/14	0.0574	0.0012	0.00083 J	0.00047 J	0.232	0.167	0.118 J	--
MW-111	12/08/15	**0.386**	0.00649	0.00291	0.00333	0.944	0.335	<0.388	--
MW-111	05/04/16	**0.0719**	0.00157	0.00158	0.00125 J	0.294	0.141	< 0.0598	--
MW-111	12/14/16	**0.248**	0.00375 J	0.00243 J	<0.00442	0.739 J	0.343	0.0883 J	--
MW-111	06/14/17	0.00575	0.000480 J	< 0.000198	0.000466 J	0.0836 J	0.142 J	< 0.123	--
MW-111	12/06/17	**0.202**	0.00632	0.00214	0.00507	0.792	0.597	< 0.132	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-111	06/12/18	0.0273	0.00181	0.000334 J	0.00238 J	0.227	0.210 J	< 0.123	--
MW-111	12/19/18	0.0592	0.00574	0.0012	0.00475	0.766	1.27	0.462	--
MW-111	05/15/19	0.00484	< 0.000170	< 0.000190	< 0.000580	0.149	0.195 J	< 0.117	--
MW-111	12/11/19	0.000270 J	< 0.000312	< 0.000198	< 0.000422	< 0.0704	0.255 J	< 0.125	--
MW-111	06/29/20	0.00124	0.000637 J	< 0.000198	0.000648 J	0.0898 J	< 0.110	< 0.120	--
MW-111	12/14/20	0.00163	0.000945	<0.00020	0.00118	<0.250	0.346	0.348	--
MW-111	06/15/21	0.000251 J	0.000593 J	<0.00100	0.00100 J	0.120 J	<0.233	<0.389	--
MW-111	12/15/21	0.00337	0.00161	0.000247 J	0.00166 J	0.421	0.340	0.149 J	--
MW-111	04/18/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.229	<0.381	--
MW-111	06/27/22	0.00274	<0.00100	<0.00100	<0.00300	0.110 J	0.118 J	<0.402	--
MW-111	12/14/22	0.0538	0.00333	0.000527 J	0.00259 J	0.490	1.31	0.326 J	--
MW-111	06/13/23	0.00132	<0.00100	<0.00100	<0.00300	<0.150	<0.232	<0.387	--
MW-111	12/19/23	0.0424	0.00191	<0.00100	0.00187 J	0.129	0.616	0.445	--
MW-111	06/17/24	0.00441	<0.00100	<0.00100	<0.00200	<0.150	0.142 J	0.199 J	--
MW-111	12/18/24	0.00904	0.000709 J	<0.00100	<0.00200	0.105 J	0.320	0.323 J	--
MW-112A	01/15/04	0.02	< 0.001	< 0.001	< 0.001	0.25	0.63	< 0.5	--
MW-112A	04/21/04	< 0.005	< 0.005	< 0.005	< 0.005	< 1.2	0.56	< 0.75	--
MW-112A	07/27/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.51	< 0.5	--
MW-112A	10/19/04	0.0013	< 0.001	< 0.001	< 0.001	< 0.25	0.68	< 0.5	--
MW-112A	01/24/05	0.003	0.0012	< 0.001	0.001	0.44	0.65	< 0.5	--
MW-112A	04/20/05	< 0.001	< 0.001	< 0.001	< 0.001	0.42	1.4	< 0.5	--
MW-112A	07/12/05	0.0029	< 0.001	< 0.001	< 0.001	0.28	0.48	< 0.5	--
MW-112A	10/18/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	< 0.25	< 0.5	--
MW-112A	01/26/06	0.00211	< 0.0005	< 0.0005	< 0.001	0.236	0.602	< 0.485	--
MW-112A	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	0.300	1.30	< 0.5	--
MW-112A	11/18/09	0.00075	< 0.001	< 0.001	< 0.001	0.200	0.230	< 0.1	--
MW-112A	10/29/10	0.036	< 0.001	< 0.001	0.0015	0.770	0.600	< 0.1	--
MW-112A	05/24/11	0.00041	<0.0005	<0.0003	<0.0007	0.129	--	--	--
MW-112A	10/25/11	0.0055	< 0.0010	< 0.0010	< 0.0020	0.292	0.200	< 0.20	--
MW-112A	11/25/12	0.0058	0.00022 J	0.00037 J	< 0.00046	0.197 J	0.282	< 0.10	--
MW-112A	11/04/13	0.0238	0.00068 J	0.0376	0.0012 J	0.909	1.72	< 0.19	--
MW-112A	11/06/14	0.0156	0.0014	0.028	0.0016 J	0.760	1.43	0.295	--
MW-112A	12/08/15	0.0297	0.00368	0.00219	0.00406	**1.31**	5.89	< 0.389	--
MW-112A	05/05/16	0.0248	0.00131	0.0992	0.00688	**1.75**	7.96	0.132 J	--
MW-112A	12/12/16	0.0426	0.00666	0.0109	0.0103	**2.27**	2.77	0.180 J	--
MW-112A	06/15/17	0.0348	0.0037	0.02	0.00464 J	**1.46**	7.34	0.210 J	--
MW-112A	12/07/17	0.00111	0.00169	< 0.000198	0.00196 J	0.811	1.71	0.151 J	--
MW-112A	06/13/18	0.0289	0.00297	0.134	0.00748	**2.39**	**12.6**	0.150 J	--
MW-112A	12/20/18	0.00166	0.00171	0.000248 J	0.00196 J	0.728	2.93	0.789	--
MW-112A	05/16/19	0.0111	0.00173	0.0231	0.00208 J	**2.00**	2.37	0.222 J	--
MW-112A	12/12/19	0.0149	0.00296	0.00154	0.00385	**1.91**	**12.2**	0.419 J	--
MW-112A	06/30/20	0.00354 J	0.000903 J	0.0215 J	0.00155 J	**1.05**	3.62	0.204 J	--
MW-112A	12/14/20	0.00442	0.00253	0.00186	0.00375	**1.77 J+**	2.30	1.02	--
MW-112A	06/15/21	0.00207	0.000659 J	0.00702	0.00189 J	0.976	2.58	0.161 J	--
MW-112A	12/15/21	0.00235	0.00147	0.000665 J	0.00213 J	**2.34**	1.10	0.215 J	--
MW-112A	04/18/22	0.00102	0.000759 J	0.0279	0.00269 J	**1.87**	1.39	<0.389	--
MW-112A	06/28/22	0.00139	0.000935 J	0.0106	0.00263 J	**1.26**	0.675	<0.407	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-112A	12/13/22	0.00263	0.00159	0.000729 J	0.00225 J	**1.06**	2.67	0.686	--
MW-112A	06/13/23	0.00246	0.00125	0.0289	0.00317	**1.29**	2.56	<0.389	--
MW-112A	12/19/23	0.00244	0.00245	0.00129	0.00423	**1.09**	3.22	0.883	--
MW-112A	06/18/24	0.00195	0.00148	0.0471	0.00349	**1.78**	5.30	0.644	--
MW-112A	12/17/24	0.00170	0.00175	0.000914 J	0.00157 J	**1.43**	4.44	1.19	--
MW-113	06/27/22	**0.156**	0.00522	0.00405	0.00540	<15	0.933	0.156 J	--
MW-113	12/14/22	0.0650	0.00466	<0.00100	<0.00300	0.177	1.24	0.440	--
MW-113	06/13/23	**0.396**	0.0322	0.00572	0.00476	0.488	1.30	<0.389	--
MW-113	12/19/23	0.0513	0.0156	<0.00100	0.000649 J	0.153	0.868	0.481	--
MW-113	06/17/24	**0.162**	0.0248	0.00724 J	0.0209	0.412	3.56 J-	1.18 J-	--
MW-113	12/17/24	0.0246	0.00357	0.00164	0.00304	0.172	0.757	0.381	--
MW-114	06/27/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.413	0.16 J	--
MW-114	12/14/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.339	0.523	--
MW-114	06/13/23	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.246	<0.411	--
MW-114	12/19/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.100	0.144	0.447	--
MW-114	06/17/24	<0.00100	<0.00100	<0.00100	<0.00200	<0.150	0.118 J	0.286 J	--
MW-114	12/17/24	<0.00100	<0.00100	<0.00100	<0.00200	<0.150	0.209 J	0.641 J-	--
MW-115	06/27/22	<0.000400	<0.00100	<0.00100	<0.00300	0.372	4.93	0.24 J	--
MW-115	12/14/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	1.24	0.42 J	--
MW-115	06/13/23	<0.000400	<0.00100	<0.00100	<0.00300	0.328	2.77	<0.39	--
MW-115	12/19/23	<0.00100	<0.00100	<0.00100	<0.00200	0.334	2.46	0.872	--
MW-115	06/17/24	<0.00100	<0.00100	<0.00100	<0.00200	0.993	4.01	1.34	--
MW-115	12/17/24	<0.00100	<0.00100	<0.00100	<0.00200	0.193	0.756	0.637	--
MW-201	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-201	04/20/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-201	01/26/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.33	< 0.5	--
MW-201	04/20/05	< 0.001	< 0.001	< 0.001	0.0021	< 0.25	< 0.25	< 0.5	--
MW-201	07/13/05	< 0.001	< 0.001	< 0.001	< 0.001	0.12	0.7	< 0.5	--
MW-201	10/20/05	< 0.001	< 0.001	< 0.001	< 0.001	0.22	4.6	2.3	--
MW-201	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.050	0.342	< 0.476	--
MW-201	11/20/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	0.41	< 0.5	--
MW-201	11/19/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-201	10/27/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.18	< 0.1	--
MW-201	10/26/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	0.0899	1.46	0.181	--
MW-201	11/27/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.122	< 0.10	--
MW-201	11/06/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	0.0964 J	0.520	< 0.094	--
MW-201	11/06/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.173	0.195	--
MW-201	12/10/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	0.121	0.323	< 0.389	--
MW-201	12/13/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	0.203	0.174 J	--
MW-201	12/06/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.159 J	< 0.132	--
MW-201	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.281	0.383 J	--
MW-201	12/16/20	<0.00020 J	<0.0002 J	<0.00020 J	<0.0005 J	<0.250	0.315	<0.368	--
MW-201	12/12/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.556	0.163 J	--
MW-201	12/18/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.100	0.255	0.551	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-201	12/18/24	<0.00100	<0.00100	<0.00100	<0.00200	<0.150	0.204	0.419	--
MW-202	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	**2.5**	**15**	< 10	--
MW-202	04/20/04	0.014	0.0062	0.074	0.021	**4.4**	**28**	< 10	--
MW-202	01/26/05	< 0.005	< 0.005	< 0.005	< 0.005	**7.7**	5.2	< 5	--
MW-202	04/20/05	0.016	0.0022	0.036	0.0237	**3.7**	6.2	< 5	--
MW-202	07/13/05	0.016	0.0033	0.067	0.0191	**3.5**	6.2	< 1	--
MW-202	10/20/05	0.019	0.0021	0.058	0.0056	**3.3**	5.9	< 2.5	--
MW-202	01/26/06	0.0224	0.00598	0.041	0.0191	**5.79**	**11.2**	< 4.76	--
MW-202	04/25/06	0.00749	0.00378	0.062	0.0124	**6.78**	8.7	<4.85	--
MW-202	10/12/06	0.00936	0.00339	0.0828	0.00616	**5.65**	**11.5**	0.834	--
MW-202	04/26/07	0.00825	0.0048	0.063	<0.015	**4.78**	8.24	1.05	--
MW-202	10/30/07	--	--	--	--	**4.55**	**10.9**	< 1	--
MW-202	05/20/08	--	--	--	--	**2.3**	1.8	< 2.5	--
MW-202	11/20/08	--	--	--	--	**5.0**	2.2	< 0.5	--
MW-202	04/07/09	--	--	--	--	**4.8**	**14**	< 0.1	--
MW-202	11/19/09	--	--	--	--	**6.6**	**20**	< 0.5	--
MW-202	04/27/10	--	--	--	--	**3.3**	6.4	0.12	--
MW-202	10/27/10	0.0081	0.0031	0.066	0.0022	**6.0**	5.4	< 0.1	--
MW-202	05/23/11	--	--	--	--	**3.5**	1.84	< 0.097	--
MW-202	10/26/11	--	--	--	--	**4.3**	1.02	< 0.21	--
MW-202	03/02/12	0.0053	0.0019	0.0107	0.0013 J	**3.87**	--	--	--
MW-202	06/13/12	--	--	--	--	**3.31**	1.54	< 0.10	--
MW-202	09/26/12	0.0058	0.0029 J	0.0378	< 0.0018	**4.07**	--	--	--
MW-202	11/27/12	0.0113	0.0034	0.0274	0.0022	**6.07**	2.67	< 0.30	--
MW-202	05/15/13	--	--	--	--	**3.83**	1.62	< 0.096	--
MW-202	11/06/13	< 0.00020	0.0027	0.0335	0.0012 J	**4.68**	1.29	< 0.095	--
MW-202	04/22/14	--	--	--	--	**3.22**	2.18	< 0.28	--
MW-202	11/06/14	0.0083	0.0026	0.0154	0.0011	**5.10**	2.45	0.282 J	--
MW-202	05/19/15	--	--	--	--	**2.96**	0.842	< 0.096	--
MW-202	12/10/15	0.00419	0.00124	0.00277	< 0.0030	**5.67**	**27.2**	0.565	--
MW-202	05/03/16	--	--	--	--	**2.89**	2.29	0.111 J	--
MW-202	12/13/16	0.00606	0.0028	0.00901	0.00110 J	**2.92**	4.04	0.201	--
MW-202	06/14/17	--	--	--	--	**2.58**	3.68	0.134 J	--
MW-202	12/06/17	0.00102	< 0.000312	0.00144	0.00129 J	**3.02**	**25.8**	0.402 J	--
MW-202	06/14/18	--	--	--	--	**1.49**	4.10	0.166 J	--
MW-202	12/19/18	0.00178	0.000839 J	0.00444	0.00187 J	**4.74**	**48.3**	1.69	--
MW-202	05/16/19	--	--	--	--	**3.04**	**11.8**	0.718	--
MW-202	12/10/19	0.00179	0.00159	0.0128	0.00202 J	**4.29**	**24**	0.534	--
MW-202	06/29/20	--	--	--	--	**1.78**	**13.1**	0.412	--
MW-202	12/16/20	0.00132 J	0.000409 J-	0.00236 J	<0.0005 J	**3.47**	**36.6**	0.641	--
MW-202	06/14/21	--	--	--	--	**1.32**	4.52	0.327 J	--
MW-202	12/16/21	0.00275	0.000751 J	0.00121	0.00169 J	**3.71**	**17.0**	0.706	--
MW-202	06/29/22	--	--	--	--	**3.33**	2.84	1.09	--
MW-202	12/12/22	0.00314	0.00111	0.00193	0.00155 J	**2.98**	**22.1**	0.505	--
MW-202	06/12/23	--	--	--	--	0.947	2.18	0.365 J	--
MW-202	12/18/23	0.00276	0.000818 J	0.000989 J	0.00672 J	**1.05**	**14.5**	0.990	--
MW-202	06/18/24	--	--	--	--	0.488	3.43	0.688	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-202	12/18/24	0.00278	0.000939 J	0.00142	0.000739 J	**1.08**	6.90	0.843	--
MW-203	01/13/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-203	04/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.26	< 0.5	--
MW-203	07/27/04	0.013	< 0.001	0.0069	< 0.001	**2.6**	0.45	< 0.5	--
MW-203	10/19/04	0.013	< 0.001	0.015	0.0025	**1.6**	< 0.25	< 0.5	--
MW-203	10/19/04	0.017	< 0.001	0.012	0.0018	**1.4**	< 0.25	< 0.5	--
MW-203	01/25/05	0.0063	< 0.001	0.011	0.0013	**1.6**	0.52	0.68	--
MW-203	04/19/05	0.0068	< 0.001	0.0018	< 0.001	0.63	< 0.25	0.55	--
MW-203	07/13/05	0.01	< 0.001	0.0077	< 0.001	0.89	< 0.25	< 0.5	--
MW-203	10/20/05	0.023	0.002	0.021	0.0026	**4.2**	2.1	1.1	--
MW-203	01/23/06	0.00186	< 0.0005	0.00182	0.00125	0.76	0.565	< 0.943	--
MW-203	04/26/16	0.00694	0.00076	0.00079	<0.003	**1.38**	0.660	0.625	--
MW-203	10/13/16	0.023	0.00553	0.00448	0.00652	**6.22**	7.39	1.34	--
MW-203	04/27/17	0.00502	<0.0005	0.00053	<0.003	**1.24**	0.507	0.515	--
MW-203	05/20/08	--	--	--	--	0.60	0.32	< 0.5	--
MW-203	11/18/08	--	--	--	--	0.17	< 0.25	< 0.5	--
MW-203	04/08/09	--	--	--	--	< 0.1	0.12	0.11	--
MW-203	11/17/09	--	--	--	--	< 0.1	< 0.1	< 0.1	--
MW-203	04/26/10	--	--	--	--	0.16	0.18	< 0.1	--
MW-203	10/25/10	--	--	--	--	0.92	0.36	< 0.1	--
MW-203	05/23/11	--	--	--	--	0.333	0.0854	0.314	--
MW-203	10/26/11	--	--	--	--	**1.38**	0.262	0.118	--
MW-203	06/13/12	--	--	--	--	0.459	0.134	0.332	--
MW-203	11/27/12	--	--	--	--	**1.05**	0.0943 J	< 0.10	--
MW-203	05/15/13	--	--	--	--	0.144 J	< 0.048	< 0.096	--
MW-203	11/06/13	--	--	--	--	0.680	< 0.047	< 0.094	--
MW-203	04/22/14	--	--	--	--	0.164	0.210 J	0.732 J	--
MW-203	11/06/14	--	--	--	--	0.102	0.0933 J	0.168 J	--
MW-203	05/19/15	--	--	--	--	0.285	0.166	0.170 J	--
MW-203	12/09/15	--	--	--	--	< 0.100	0.319	< 0.394	--
MW-203	05/04/16	--	--	--	--	0.575	0.161	0.133 J	--
MW-203	5/5/2016 DUP	--	--	--	--	0.534	0.151	0.134 J	--
MW-203	12/13/16	--	--	--	--	0.203	0.234	0.125 J	--
MW-203	06/14/17	--	--	--	--	0.0898 J	0.212 J	0.172 J	--
MW-203	12/08/17	--	--	--	--	**1.56**	0.323	< 0.122	--
MW-203	06/14/18	--	--	--	--	0.156	0.152 J	0.167 J	--
MW-203	12/20/18	--	--	--	--	0.107 J	0.806	0.944	--
MW-203	05/16/19	--	--	--	--	0.471	0.185 J	0.159 J	--
MW-203	12/10/19	--	--	--	--	**1.74**	0.495	0.189 J	--
MW-203	06/29/20	--	--	--	--	0.256	0.209 J	0.181 J	--
MW-203	12/15/20	--	--	--	--	0.282	<0.229	0.930	--
MW-203	06/15/21	--	--	--	--	<0.150	<0.246	0.267 J	--
MW-203	12/16/21	--	--	--	--	0.129 J	0.138 J	0.273 J	--
MW-203	06/28/22	--	--	--	--	0.0343 J	0.645	1.56	--
MW-203	12/14/22	--	--	--	--	0.227	0.993	0.350 J	--
MW-203	06/12/23	--	--	--	--	0.944	2.91	0.383	--
MW-203	12/20/23	--	--	--	--	<0.100	0.0750 J	0.226 J	--

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Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-203	06/18/24	--	--	--	--	0.0923 J	0.397	0.754	--
MW-203	12/16/24	--	--	--	--	0.823	0.470	0.665	--
MW-204	07/27/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	1.6	< 0.5	--
MW-204	01/26/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	6.2	< 1	--
MW-204	04/18/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	1.5	0.79	--
MW-204	07/13/05	< 0.001	< 0.001	< 0.001	< 0.001	0.076	1.1	0.59	--
MW-204	10/19/05	< 0.001	< 0.001	< 0.001	< 0.001	0.082	0.45	< 0.5	--
MW-204	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	5.53	< 0.952	--
MW-204	04/25/06	<0.0005	<0.0005	<0.0005	<0.003	0.0755	2.51	1.11	--
MW-204	10/12/06	<0.0005	<0.0005	<0.0005	<0.003	0.0634	0.896	0.519	--
MW-204	04/26/07	<0.0005	<0.0005	<0.0005	<0.003	0.0855	1.81	0.749	--
MW-204	10/30/07	--	--	--	--	< 0.05	--	--	--
MW-204	11/20/08	< 0.005	< 0.005	< 0.005	< 0.005	0.13	1	< 0.5	--
MW-204	11/19/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	3.5	0.16	--
MW-204	10/27/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.29	< 0.1	--
MW-204	10/27/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	0.066	0.599	< 0.20	--
MW-204	11/27/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.975	< 0.10	--
MW-204	11/06/13	0.00057 J	< 0.00020	< 0.00020	< 0.00046	0.0762 J	0.28	0.0976 J	--
MW-204	11/06/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.505	0.321	--
MW-204	12/10/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	0.579	< 0.388	--
MW-204	12/13/16	0.000187 J	< 0.000312	0.000555 J	< 0.000442	< 0.0178	0.507	0.215	--
MW-204	12/06/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.786	0.232 J	--
MW-204	12/19/18	0.000204 J	< 0.000312	< 0.000198	< 0.000442	0.138 J	0.599	0.729	--
MW-204	12/10/19	0.00105	< 0.000312	< 0.000198	< 0.000442	<0.0704	0.238 J	0.128 J	--
MW-204	12/16/20	0.0003 J	0.000245 J-	<0.00020 J	<0.0005 J	<0.250	0.303	0.405	--
MW-204	12/16/21	0.000342 J	<0.00100	<0.00100	<0.00300	<0.150	0.379	0.413	--
MW-204	12/12/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.351	0.458	--
MW-204	12/18/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.100	0.364	0.601	--
MW-204	12/16/24	0.000287 J	<0.00100	<0.00100	<0.00200	<0.150	0.386	0.730	--
MW-206A	01/22/04	< 0.001	< 0.001	< 0.001	0.004	< 0.25	< 0.25	< 0.5	--
MW-206A	04/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-206A	07/27/04	< 0.005	< 0.005	< 0.005	< 0.005	< 1.2	1.8	0.78	--
MW-206A	10/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	2	1.1	--
MW-206A	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	2.1	2.2	--
MW-206A	04/18/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	1.3	1.5	--
MW-206A	07/13/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	1.2	1.9	--
MW-206A	10/20/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	2.1	7.9	--
MW-206A	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	4.41	2.54	--
MW-206A	11/20/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.25	2.1	1.7	--
MW-206A	11/19/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.1	< 0.1	--
MW-206A	10/25/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	0.18	--
MW-206A	10/26/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	0.141	< 0.20	--
MW-206A	11/27/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.116	0.111 J	--
MW-206A	11/06/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.047	< 0.094	--
MW-206A	11/06/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.236	0.392	--
MW-206A	12/08/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	< 0.242	< 0.403	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-206A	12/12/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	0.180	0.135 J	--
MW-206A	12/08/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.258	0.239 J	--
MW-206A	12/20/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	2.25	3.96	--
MW-206A	12/10/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.591	0.396	--
MW-206A	12/16/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	<0.236	<0.394	--
MW-206A	12/16/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.150 J	0.215 J	--
MW-206A	12/12/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.264	0.575	--
MW-206A	12/18/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.100	0.246	0.783	--
MW-206A	12/16/24	<0.00100	<0.00100	<0.00100	<0.00200	<0.150	0.238	0.639	--
MW-213	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-213	04/20/04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.25	< 0.25	< 0.5	--
MW-213	07/28/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-213	10/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-213	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-213	04/19/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	< 0.25	< 0.5	--
MW-213	07/12/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	< 0.25	< 0.5	--
MW-213	10/20/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	0.34	< 0.5	--
MW-213	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	0.653	< 0.495	--
MW-213	10/30/07	< 0.001	< 0.001	< 0.001	< 0.003	--	--	--	--
MW-213	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.25	< 0.25	< 0.5	--
MW-213	04/07/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-213	11/18/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-213	04/26/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-213	10/28/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-213	05/24/11	<0.0003	<0.0005	<0.0003	<0.0007	< 0.050	< 0.049	< 0.098	--
MW-213	10/25/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	< 0.11	< 0.21	--
MW-213	06/12/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.050	< 0.10	--
MW-213	11/29/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.050	< 0.10	--
MW-213	05/15/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.096	--
MW-213	11/05/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0625 J	< 0.095	--
MW-213	04/23/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0586	< 0.094	--
MW-213	11/05/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0782 J	< 0.094	--
MW-213	05/19/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.102	< 0.10	--
MW-213	12/09/15	< 0.00020	<0.0010	<0.0010	<0.0030	<0.100	< 0.235	< 0.392	--
MW-213	05/03/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000162	< 0.100	0.0415 J	< 0.0593	--
MW-213	12/13/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.100	0.115 J	< 0.0622	--
MW-213	06/14/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.128 J	< 0.123	--
MW-213	12/07/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.158 J	< 0.121	--
MW-213	06/12/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.111	< 0.121	--
MW-213	12/19/18	< 0.0000930	0.000320 J	< 0.000198	< 0.000442	0.0717 J	0.434	0.411	--
MW-213	05/16/19	< 0.000200	0.000349 J	< 0.000190	< 0.000580	0.0912	0.153 J	< 0.123	--
MW-213	12/11/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.147 J	< 0.117	--
MW-213	06/29/20	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-213	12/16/20	<0.00020 J	<0.0002 J	<0.00020 J	<0.0005 J	<0.250	<0.233	<0.388	--
MW-213	06/14/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.235	<0.392	--
MW-213	12/16/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.158 J	0.199 J	--
MW-213	06/29/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.163 J	<0.475	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-213	12/12/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.270	0.268 J	--
MW-213	06/12/23	<0.000400	<0.00100	<0.00100	<0.00300	0.0426 J	<0.224	<0.373	--
MW-213	12/18/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.100	0.271	0.396	--
MW-213	06/19/24	<0.00100	<0.00100	<0.00100	<0.00200	0.0946 J	0.288	0.349	--
MW-213	12/16/24	<0.00100	<0.00100	<0.00100	<0.00200	<0.150	0.332	0.420	--
MW-214	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-214	04/20/04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.25	< 0.25	< 0.5	--
MW-214	07/28/04	< 0.005	< 0.005	< 0.005	< 0.005	< 1.2	< 0.25	< 0.5	--
MW-214	10/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-214	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.36	< 0.5	--
MW-214	04/19/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	0.3	< 0.5	--
MW-214	07/12/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	0.29	< 0.5	--
MW-214	10/20/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	0.33	< 0.5	--
MW-214	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	0.91	< 0.476	--
MW-214	10/30/07	< 0.001	< 0.001	< 0.001	< 0.003	--	--	--	--
MW-214	05/05/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.25	0.91	< 0.5	--
MW-214	07/10/08	--	--	--	--	--	< 0.5	< 1	--
MW-214	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.25	0.8	< 0.5	--
MW-214	04/07/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.17	< 0.1	--
MW-214	11/18/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.11	< 0.1	--
MW-214	04/26/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.19	< 0.1	--
MW-214	10/28/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-214	05/24/11	<0.0003	<0.0005	<0.0003	<0.0007	<0.050	0.127	<0.097	--
MW-214	10/25/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	0.126	< 0.21	--
MW-214	06/12/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.050	0.135 J	--
MW-214	11/29/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.095	--
MW-214	05/15/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0857 J	< 0.096	--
MW-214	11/05/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0552 J	< 0.094	--
MW-214	04/23/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.118	< 0.094	--
MW-214	11/05/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.168	0.103	--
MW-214	05/19/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.106	< 0.094	--
MW-214	12/09/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	0.248	< 0.392	--
MW-214	05/03/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000162	< 0.100	0.123	< 0.0594	--
MW-214	12/14/16	< 0.0000930	< 0.000312	0.000275 J	< 0.000442	0.0226 J	0.130	< 0.0600	--
MW-214	06/14/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.214 J	< 0.121	--
MW-214	12/07/17	< 0.0000930 J	< 0.000312 J	< 0.000198 J	< 0.000442 J	< 0.0704 J	0.305	< 0.128	--
MW-214	06/12/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.170 J	< 0.120	--
MW-214	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.547	0.415	--
MW-214	05/16/19	< 0.000200	0.000303 J	< 0.000190	< 0.000580	< 0.0550	0.213 J	< 0.122	--
MW-214	12/11/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.239 J	< 0.121	--
MW-214	06/29/20	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-214	12/16/20	<0.00020 J	<0.0002 J	<0.00020 J	<0.0005 J	<0.250	<0.218	<0.363	--
MW-214	06/14/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.122 J	<0.395	--
MW-214	12/16/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.172 J	0.129 J	--
MW-214	06/29/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.181 J	0.135 J	--
MW-214	12/12/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.367	0.275 J	--
MW-214	06/12/23	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.233	<0.389	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-214	12/18/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.100	0.293	0.398	--
MW-214	06/19/24	<0.00100	<0.00100	<0.00100	<0.00200	<0.150	<0.210	<0.368	--
MW-214	12/16/24	<0.00100	<0.00100	<0.00100	<0.00200	<0.150	0.165 J	<0.374	--
MW-301	03/02/12	**0.24**	0.0138	0.0099	0.0212	**3.37**	--	--	--
MW-301	09/25/12	**0.333**	0.0131	0.0186	0.0192	**4.02**	--	--	--
MW-301	11/28/12	**0.241**	0.0099	0.0125	0.0106	**2.76**	--	--	--
MW-301	02/21/13	**0.659**	0.0175	0.0264	0.0173 J	**3.98**	0.315	< 0.10	--
MW-301	05/15/13	**0.357**	0.0122	0.0231	0.0145	**3.63**	--	--	--
MW-301	11/04/13	**0.16**	0.0097	0.0164	0.0109	**2.29**	--	--	--
MW-301	04/23/14	**0.252**	0.0072	0.0135	0.0075	**3.57**	--	--	--
MW-301	07/24/14	**0.314**	0.008	0.0143	0.0096	**3.70**	0.361	< 0.094	--
MW-301	11/03/14	**0.108**	0.0043 J	0.0046 J	0.0051 J	**1.76**	--	--	--
MW-301	03/09/15	**0.222**	0.0067	0.0065	0.0062 J	**2.27**	--	--	--
MW-301	05/21/15	**0.194**	0.0069	0.01	0.0060 J	**2.24**	--	--	--
MW-301	07/28/15	**0.116**	0.0036	0.0037	0.0019 J	**2.09**	--	--	--
MW-301	12/10/15	0.0437	0.00351	0.00104	0.00551	**1.34**	--	--	--
MW-301	02/22/16	**0.28**	0.00881	0.0104	0.00746	**3.65**	--	--	--
MW-301	05/02/16	**0.17**	0.00834	0.0138	0.00663	**3.32**	--	--	--
MW-301	08/29/16	0.0647	0.00551	0.0103	0.0064	**2.9**	--	--	--
MW-301	12/12/16	**0.251**	0.00745	0.0173	0.00633	**3.00**	--	--	--
MW-301	03/13/17	**0.206**	0.00771	0.0117	0.00585	**3.02**	--	--	--
MW-301	06/13/17	**0.111**	0.00659 J	0.0128	0.00713 J	**2.50**	--	--	--
MW-301	08/22/17	0.0652	0.00472	0.0108	0.00366	**1.93**	--	--	--
MW-301	12/05/17	0.0222	0.00228	0.00217	0.00272 J	**1.67**	--	--	--
MW-301	03/06/18	**0.207**	0.00303	0.00542	0.00248 J	**1.32**	--	--	--
MW-301	06/13/18	0.0132	0.00108	0.00239	0.000821 J	**1.27**	--	--	--
MW-301	09/06/18	0.00368	0.000585 J	0.000352 J	0.000489 J	**1.45**	--	--	--
MW-301	12/20/18	0.0175	0.000688 J	0.00259	0.000536 J	0.445	--	--	--
MW-301	03/19/19	**0.0999**	0.00182	0.00923	0.00182 J	**1.34**	--	--	--
MW-301	05/16/19	0.00684	< 0.000170	0.000357 J	< 0.000580	0.483	--	--	--
MW-301	09/19/19	0.0000937 J	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-301	12/11/19	0.000093	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-301	04/28/20	0.0399	0.00115	0.00676	0.000676 J	0.368	--	--	--
MW-301	06/29/20	0.0163	< 0.000312	0.00205	< 0.000442	0.114 J	--	--	--
MW-301	09/21/20	0.00732	<0.001	0.00127	0.000442 J	0.167	--	--	--
MW-301	12/15/20	0.0416	0.00146	0.0109	0.00117	0.441	--	--	--
MW-301	04/13/21	0.0238	0.00105	0.00767	0.000879	**1.69**	--	--	--
MW-301	06/15/21	0.0168	0.00103	0.00822	0.00101 J	0.439	--	--	--
MW-301	09/22/21	0.00333	<0.00100	0.00200	0.000535 J	0.226	--	--	--
MW-301	12/16/21	0.0185	0.000723 J	0.00439	0.000768 J	0.471	--	--	--
MW-301	03/29/22	0.0308	0.000663 J	0.00248	0.00113 J	0.572	--	--	--
MW-301	06/28/22	0.0215	0.000854 J	0.00316	0.000735 J	0.478	--	--	--
MW-301	09/21/22	0.00932	0.000952 J	0.00172	0.000953 J	0.245	--	--	--
MW-301	12/13/22	0.0242	0.00151	0.000703 J	0.00148 J	--	--	--	--
MW-301	03/28/23	**0.0782**	0.00502	0.0129	0.00396	0.952	--	--	--
MW-301	06/14/23	**0.11**	0.00408	0.00609	0.00315	0.794	--	--	--
MW-301	09/11/23	0.0704	0.00526	0.000846 J	0.00300	0.590	--	--	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-301	12/20/23	0.0289	0.00480	0.00380	0.00384	0.804	--	--	--
MW-301	03/12/24	0.0193	0.00346	0.00339	0.00351	**1.02**	--	--	--
MW-301	06/18/24	**0.0864**	0.00359	0.00121	0.00896	**1.44**	--	--	--
MW-301	09/18/24	0.0371	0.00514	0.000608 J	0.00710	**1.15**	--	--	--
MW-301	12/17/24	0.0526	0.00842	0.00170	0.00793	**1.08**	--	--	--
MW-302	03/01/12	**0.831**	0.0275	0.213	0.248	**5.33**	--	--	--
MW-302	06/12/12	**0.574**	0.0156	0.0183	0.0244	**4.18**	--	--	--
MW-302	06/28/12	**1.23**	0.0437	0.403	0.289	**5.65**	--	--	--
MW-302	09/25/12	**0.657**	0.0247	0.18	0.106	**4.07**	--	--	--
MW-302	11/25/12	**0.449**	0.0152	0.191	0.177	**4.58**	--	--	--
MW-302	02/22/13	**0.393**	0.0149	0.124	0.116	**4.15**	0.435	< 0.10	--
MW-302	05/14/13	**0.873**	0.0231	0.236	0.145	**4.19**	--	--	--
MW-302	09/05/13	**0.783**	0.0189	0.162	0.0746	**3.70**	--	--	--
MW-302	11/05/13	**0.607**	0.0112	0.0977	0.0529	**2.69**	--	--	--
MW-302	01/16/14	**0.404**	0.0161	0.0843	0.0504	**3.54**	--	--	--
MW-302	04/23/14	**0.98**	0.0269	0.276	0.232	**5.86**	--	--	--
MW-302	07/24/14	**0.656**	0.0206	0.178	0.131	**4.66**	0.363	< 0.094	--
MW-302	11/03/14	**0.506**	0.0159	0.221	0.176	**4.06**	0.361	< 0.094	--
MW-302	05/21/15	**0.454**	0.0161	0.174	0.15	**3.44**	--	--	< 0.010
MW-302	12/10/15	**0.372**	0.00853	0.0139	0.0176	**2.16**	1	< 0.391	--
MW-302	05/04/16	**0.595**	0.0145	0.27	0.153	**3.75**	--	--	--
MW-302	12/15/16	**0.759**	0.0263	0.453	0.117	**5.08**	1.73	< 0.0630	--
MW-302	06/13/17	**0.487**	0.0146 J	0.215	0.0524 J	**1.98**	--	--	--
MW-302	08/23/17	0.047	0.00305	0.00823	0.00647	0.709	--	--	--
MW-302	12/05/17	0.0414	0.00196	0.00271	0.003	**1.79**	9.96	0.209 J	--
MW-302	03/07/18	0.0707	0.00314	0.043	0.00763	**1.61**	--	--	--
MW-302	06/13/18	0.0591	0.00363	0.0481	0.0227	1.00	--	--	--
MW-302	09/06/18	0.0312	0.00138	0.0242	0.00479	0.526	--	--	--
MW-302	12/20/18	0.00121	< 0.000312	0.00431	0.000625 J	0.232	2.5	0.386	--
MW-302	03/19/19	0.0133	0.000823 J	0.0122	0.00433	**1.84 J**	--	--	--
MW-302	05/16/19	0.0035	0.000363 J	0.00678	0.00177 J	0.578	--	--	--
MW-302	09/19/19	0.0174	0.00115	0.0217	0.00428	0.662	--	--	--
MW-302	12/11/19	0.0132	0.000741 J	0.00976	0.00222 J	0.297	3.69	0.179 J	--
MW-302	04/28/20	0.027	0.00181	0.0397	0.00698	**1.23**	--	--	--
MW-302	06/30/20	0.0219	0.00152	0.0368	0.00590 J	**1.23**	--	--	--
MW-302	09/21/20	0.00148	<0.001	0.00888	0.00108 J	0.205	--	--	--
MW-302	12/15/20	0.0404 J	0.00282 J-	0.0684 J	0.0117 J-	**1.84**	**10.80**	0.529	--
MW-302	04/13/21	0.00616 J-	0.000526 J	0.0178 J-	0.00419 J-	**1.85**	--	--	--
MW-302	06/15/21	0.0203	0.00193	0.0614	0.0101	0.886	--	--	--
MW-302	09/23/21	0.0184	0.00373	0.0585	0.00883	0.637	--	--	--
MW-302	12/16/21	0.00644	0.000755 J	0.0211	0.00374	**1.19**	6.39	0.622	--
MW-302	03/28/22	0.00516	0.000712 J	0.0122	0.00292 J	**1.18**	--	--	--
MW-302	06/28/22	0.00282	0.000505 J	0.0214	0.00456	0.414	--	--	--
MW-302	09/21/22	0.00527	0.00190	0.0296	0.00693	0.540	--	--	--
MW-302	12/13/22	<0.000400	<0.00100	<0.00100	<0.00300	0.198	0.387	0.145 J	--
MW-302	03/27/23	0.00557	<0.00100	<0.00100	0.00369	0.508	--	--	--
MW-302	06/13/23	0.0298	0.00162	0.00816	0.00170 J	0.554	--	--	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-302	09/12/23	0.0373	0.00480	<0.00100	0.00694	**1.26**	--	--	--
MW-302	12/20/23	0.00329	0.000795 J	<0.00100	0.00154 J	0.680	2.90	0.878	--
MW-302	03/11/24	0.00668	<0.00100	<0.00100	<0.00200	0.297	--	--	--
MW-302	06/18/24	0.0352	0.00207	<0.00100	0.00479	0.659	--	--	--
MW-302	09/19/24	**0.112**	0.00532 J	<0.0100	0.00688 J	**1.20 J**	--	--	--
MW-302	12/17/24	0.0123 J+	0.00262 J+	0.000549 J	0.00366 J+	0.879	2.53	0.692	--
MW-303	03/02/12	**3.13**	0.0759	0.76	0.232	**12.3**	--	--	--
MW-303	06/13/12	**2.9**	0.0957	0.884	0.268	**12.5**	--	--	--
MW-303	09/25/12	**1.83**	0.0635	0.474	0.146	**9.14**	--	--	--
MW-303	11/28/12	**1.94**	0.0873	1.18	0.319	**12.6**	--	--	--
MW-303	02/21/13	**2.34**	0.0955	1.29	0.338	**12.8**	0.674	< 0.10	--
MW-303	05/15/13	**1.9**	0.0864	0.983	0.272	**10.6**	--	--	--
MW-303	11/04/13	**0.884**	0.0278	0.219	0.0544	**6.11**	--	--	--
MW-303	04/23/14	**1.58**	0.071	1.114	0.224	**11.8**	--	--	--
MW-303	07/24/14	**0.808**	0.0471	0.653	0.161	**9.76**	0.622	< 0.094	--
MW-303	11/04/14	**1.42**	0.0618	0.924	0.18	**11.5**	1.00	1.15	--
MW-303	05/20/15	**0.669**	0.0432	0.713	0.157	**7.90**	--	--	--
MW-303	12/08/15	**1.19**	0.071	1.33	< 0.300	**7.60**	2.45	< 0.398	--
MW-303	05/04/16	**0.704**	0.0625	1.82	0.287	**8.60**	--	--	--
MW-303	12/12/16	**0.831**	0.0482	1.45	0.176	**8.31**	2.52	< 0.0602	--
MW-303	06/13/17	**0.353**	0.0408	1.54	0.19	**5.69**	--	--	--
MW-303	12/05/17	**0.104**	0.0116 J	0.3	0.0400 J	**4.29**	7.49	< 0.125	--
MW-303	03/06/18	0.039	0.0154	0.147 J	0.0352	**2.50**	--	--	--
MW-303	06/13/18	**0.157**	0.0151 J	0.39	0.0317 J	**2.94 J**	--	--	--
MW-303	09/06/18	0.000729	< 0.000312	0.00117	< 0.000442	< 0.0704	--	--	--
MW-303	12/20/18	0.000581	0.000342 J	0.00136	0.00088 J	0.382	8.25	0.505	--
MW-303	03/19/19	0.0346	0.00611	0.194	0.0111	**2.48**	--	--	--
MW-303	05/16/19	0.0173	0.0017	0.0869	0.00541	**1.33**	--	--	--
MW-303	09/19/19	0.00776	0.00207	0.0717	0.00326	0.785	--	--	--
MW-303	12/11/19	0.00114	0.000373 J	0.0404	0.00134 J	0.371	2.73	0.281 J	--
MW-303	04/28/20	0.00258	< 0.000312	0.00511	0.00705	**2.46**	--	--	--
MW-303	06/30/20	0.0152	0.000897 J	0.0386	0.00696	**2.64**	--	--	--
MW-303	09/22/20	0.02	0.00254	0.153	0.00623	**1.86**	--	--	--
MW-303	12/15/20	0.0150 J-	0.00412 J-	0.119 J-	0.0146 J-	**3.34**	5.28	<0.389	--
MW-303	04/13/21	0.0135 J-	0.00170 J-	0.0371 J-	0.0104 J-	**4.07**	--	--	--
MW-303	06/15/21	0.0258	0.00343	0.133	0.00867	**1.94**	--	--	--
MW-303	09/22/21	**0.252**	0.00724	0.344	0.0194	**2.29**	--	--	--
MW-303	12/15/21	0.0248	0.000620 J	0.0142	0.00435	**2.39**	6.51	0.385 J	--
MW-303	03/28/22	0.0270	0.00196	0.0638	0.00892	**2.63**	--	--	--
MW-303	06/28/22	**0.107**	0.00303	0.0272	0.00922	**2.25**	--	--	--
MW-303	09/21/22	**0.216**	0.00710	0.0558	0.0121	**1.99**	--	--	--
MW-303	12/13/22	**0.139**	0.00483	0.0580	0.00982	**1.18**	3.73	0.321 J	--
MW-303	03/28/23	0.0282	0.00281	0.14	0.0122	**1.14**	--	--	--
MW-303	06/14/23	**0.0999**	0.00403	0.0399	0.00813	**1.26**	--	--	--
MW-303	09/11/23	**0.366**	0.0119	0.0674	0.0179	**2.22**	--	--	--
MW-303	12/20/23	0.0271	0.00114	0.0133	0.00344	0.924	3.47	0.6	--
MW-303	03/12/24	0.0137	0.00125	0.0298	0.00490	**1.33**	--	--	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-303	06/18/24	0.0443	0.00238	0.0748	0.00929	**2.59**	--	--	--
MW-303	09/18/24	**0.305**	0.00821 J	0.101	0.0147 J	**2.91**	--	--	--
MW-303	12/17/24	0.0686	<0.0100	0.106	0.0106 J	**2.63**	3.99	0.665	--
MW-304	03/01/12	**0.686**	0.0351	0.214	0.264	**5.64**	--	--	--
MW-304	06/12/12	**1.04**	0.0408	0.27	0.218	**5.98**	--	--	--
MW-304	09/25/12	**0.63**	0.024	0.198	0.105	**3.93**	--	--	--
MW-304	11/28/12	**0.411**	0.0244	0.306	0.252	**5.89**	--	--	--
MW-304	02/22/13	**0.507**	0.0225	0.208	0.149	**5.56**	0.762	0.186 J	--
MW-304	05/14/13	**0.645**	0.0283	0.209	0.144	**4.73**	--	--	--
MW-304	09/05/13	**0.862**	0.0188	0.0849	0.0616	**3.09**	--	--	--
MW-304	11/05/13	**0.695**	0.0163	0.0629	0.054	**2.67**	--	--	--
MW-304	01/16/14	**0.79**	0.0194	0.0472	0.0571	**4.89**	--	--	--
MW-304	04/23/14	**0.778**	0.0248	0.185	0.147	**5.93**	--	--	--
MW-304	07/24/14	**0.437**	0.0173	0.109	0.0666	**3.59**	0.557	< 0.094	--
MW-304	11/03/14	**1.11**	0.0421	0.48	0.214	**3.32**	0.366	< 0.094	--
MW-304	05/20/15	**0.486**	0.0136	0.115	0.0373	**3.30**	--	--	< 0.010
MW-304	12/10/15	**0.775**	0.0312	0.336	0.114	**4.37**	1.55	< 0.387	--
MW-304	05/04/16	**0.527**	0.0187	0.355	0.0559	**4.05**	--	--	--
MW-304	12/15/16	**0.749**	0.0271	0.586	0.0664	**5.75**	1.78	0.0686 J	--
MW-304	06/13/17	**0.209**	0.0113	0.413	0.0246 J	**2.20**	--	--	--
MW-304	08/23/17	0.021	0.00437	0.0124	0.00494	0.566	--	--	--
MW-304	12/05/17	0.000217 J	< 0.000312	< 0.000494 J	0.00118 J	0.291	3.20	< 0.122	--
MW-304	03/06/18	0.000493	< 0.000312	0.000337 J	< 0.000442	0.562	--	--	--
MW-304	06/13/18	0.00107	< 0.000312	0.00561	0.00104 J	0.425	--	--	--
MW-304	09/06/18	0.000535	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-304	12/20/18	< 0.000093	< 0.000312	< 0.000198	< 0.000442	< 0.0704	1.50	0.219 J	--
MW-304	03/19/19	0.000448	< 0.000312	0.000514 J	< 0.000442	0.105 J	--	--	--
MW-304	05/16/19	< 0.000200	< 0.000170	< 0.000190	< 0.000580	< 0.055	--	--	--
MW-304	09/19/19	0.000242 J	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-304	12/11/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.188 J	0.120 U	--
MW-304	04/28/20	0.00171	< 0.000312	0.000281 J	< 0.000442	0.113 J	--	--	--
MW-304	06/30/20	0.0399	0.000627 J	0.000544 J	< 0.000442	0.131 J	--	--	--
MW-304	09/21/20	0.0623	0.000391 J	0.00109	0.000491 J	0.191	--	--	--
MW-304	12/15/20	0.0363	0.000932	0.00188	0.000883	0.26	4.22	<0.393	--
MW-304	04/13/21	0.00194	<0.000200	0.00107 J+	<0.000500	0.307	--	--	--
MW-304	06/15/21	0.0263	<0.00100	0.000697 J	<0.00300	0.230	--	--	--
MW-304	09/22/21	0.0389	<0.00100	0.000696 J	<0.00300	0.225	--	--	--
MW-304	12/16/21	0.00339	<0.00100	0.00132	0.000646 J	0.406	1.86	0.292 J	--
MW-304	03/28/22	0.0276	0.000750 J	0.00125	0.000843 J	0.624	--	--	--
MW-304	06/28/22	0.0169	0.000903 J	0.00318	0.00112 J	0.549	--	--	--
MW-304	09/20/22	**0.133**	0.000434 J	0.00181	0.00134 J	0.594	--	--	--
MW-304	12/13/22	0.00466	<0.00100	0.000588 J	0.000748 J	0.364	2.15	0.674	--
MW-304	03/27/23	0.0692	0.00300	0.000721 J	0.00585	0.609	--	--	--
MW-304	06/14/23	**0.116**	0.00502	0.000506 J	0.00815	0.734	--	--	--
MW-304	09/11/23	**0.0911**	0.00648	0.00167	0.0147	0.938	--	--	--
MW-304	12/20/23	0.0249	0.00186	<0.00100	0.00558	0.613	2.23	0.692	--
MW-304	03/12/24	0.0127	<0.00100	<0.00100	0.00255	0.574	--	--	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-304	06/18/24	**0.273**	0.0132	0.000734 J	0.0313	**1.72**	--	--	--
MW-304	09/18/24	**0.290**	0.0119	<0.0100	0.0347	**1.82**	--	--	--
MW-304	12/17/24	**0.234**	0.0112	<0.0100	0.0335	**2.30**	1.52	0.329 J	--
MW-305	03/01/12	**1.14**	0.0227	0.0389	0.0375 J	**5.84**	--	--	--
MW-305	06/11/12	**1.34**	0.0221	0.0517	0.0331 J	**5.97**	--	--	--
MW-305	09/26/12	**1.27**	0.0229	0.0388	0.0355 J	**5.89**	--	--	--
MW-305	11/28/12	**0.286**	0.0061	0.0032 J	0.014	**1.53**	--	--	--
MW-305	05/15/13	**0.397**	0.0263	0.290	0.0867	**6.28**	--	--	--
MW-305	11/07/13	**0.0844**	0.0250	0.216	0.0919	**3.59**	--	--	--
MW-305	04/23/14	**0.0884**	0.0139	0.0941	0.0454	**2.82**	--	--	--
MW-305	11/06/14	0.0419	0.0052	0.002	0.0306	**1.16**	--	--	--
MW-305	05/21/15	**0.120**	0.0101	0.191	0.108	**2.81**	--	--	--
MW-306	03/01/12	**0.606**	0.015	0.0353	0.718	**4.74**	--	--	--
MW-306	06/11/12	**0.393**	0.0115	0.0509	0.763	**5.09**	--	--	--
MW-306	09/26/12	**1.05**	0.0261	0.135	0.147	**6.56**	--	--	--
MW-306	11/28/12	**0.393**	0.0125	0.0183	0.0895	**3.06**	--	--	--
MW-306	05/15/13	**0.746**	0.0472	0.837	3.70	**18.5**	--	--	--
MW-306	11/07/13	**0.101**	0.0502	0.482	2.65	**12.8**	--	--	--
MW-306	04/23/14	**0.0762**	0.0345	0.325	1.97	**11.0**	--	--	--
MW-306	11/06/14	**0.119**	0.0226	0.302 J	0.939 J	**5.59**	--	--	--
MW-306	05/21/15	**0.106**	0.0354 J	0.874	5.15	**20.6**	--	--	--
MW-307	11/26/12	**2.15**	0.0858	0.833	0.513	**10.9**	--	--	--
MW-307	02/22/13	**0.497**	0.0358	0.226	0.145	**6.02**	0.604	< 0.094	--
MW-307	05/15/13	**0.437**	0.0461	0.167	0.120	**4.56**	--	--	--
MW-307	09/05/13	**0.643**	0.0645	0.154	0.131	**5.30**	--	--	--
MW-307	11/06/13	**0.568**	0.0448 J	0.104	0.0912	**4.39**	--	--	--
MW-307	04/22/14	**0.520**	0.0408	0.241	0.152	**5.68**	--	--	--
MW-307	11/04/14	**0.596**	0.039	0.176	0.095	**5.16**	0.632	< 0.095	--
MW-307	03/09/15	**0.444**	0.0358	0.271	0.104	**5.41**	--	--	--
MW-307	05/19/15	**0.306**	0.0273	0.140	0.0673	**3.44**	0.479	< 0.096	--
MW-307	07/29/15	**0.298**	0.0245	0.109	0.0434	**4.09**	--	--	--
MW-307	12/09/15	**0.699**	0.0585	0.334	0.131	**5.03**	1.63	< 0.392	--
MW-307	02/23/16	**0.498**	0.0417	0.578	0.110 J	**4.98**	--	--	--
MW-307	05/03/16	**0.469**	0.0338	0.456	0.0981	**5.04**	1.55	< 0.0597	--
MW-307	08/30/16	**0.261**	0.0299	0.222	0.195	**5.13**	--	--	--
MW-307	12/13/16	**0.275**	0.0255	0.302	0.102	**4.02**	1.34	0.0812 J	--
MW-307	03/14/17	**0.418**	0.0311	0.540	0.136	**6.33**	--	--	--
MW-307	06/15/17	**0.166**	0.0242	0.283	0.194 J	**4.18**	1.32	< 0.121	--
MW-307	08/23/17	**0.102 J**	0.0162	0.095	0.0912	**3.22**	1.33	< 0.126	--
MW-307	12/06/17	0.0501	0.00663	0.0479	0.0134	0.977	1.04	< 0.128	--
MW-307	03/08/18	**0.150**	0.0158	0.134	0.0255	**2.09**	--	--	--
MW-307	06/14/18	**0.243**	0.0256	0.315	0.0329	**2.71**	1.45	< 0.120	--
MW-307	09/05/18	0.0507	0.00339	0.016	0.00343	**1.45**	--	--	--
MW-307	12/19/18	0.027	0.000413 J	0.0119	0.00153 J	**1.17**	1.79	0.396 J	--
MW-307	03/18/19	0.0587	0.00269	0.0500	0.00393	0.965	--	--	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-307	05/16/19	0.0324	0.00693	0.0260	0.0113	**2.47**	2.74	0.265 J	--
MW-307	09/19/19	0.0126	< 0.000312	0.00135	< 0.000442	0.444	--	--	--
MW-307	12/10/19	0.00497	< 0.000312	0.000291 J	< 0.000442	0.28	0.66	< 0.118	--
MW-307	04/27/20	**0.0974**	0.00608	0.159	0.0267	**1.45**	--	--	--
MW-307	06/29/20	**0.0946**	0.00479	0.0909	0.0164	**1.18**	7.11	0.273 J	--
MW-307	09/21/20	**0.210**	0.0102	0.156	0.0516	**2.01**	--	--	--
MW-307	12/16/20	**0.106 J-**	0.0072 J-	0.0622 J	0.0336 J-	**1.52**	7.75	<0.379	--
MW-307	04/12/21	**0.133 J**	0.0228 J-	0.0930 J	0.0950 J	**4.06 J+**	--	--	--
MW-307	06/14/21	**0.230**	0.0180	0.282	0.0885	**2.02**	6.68	0.422	--
MW-307	09/22/21	**0.135**	0.0145	0.109	0.0717	**1.83**	--	--	--
MW-307	12/14/21	0.0426	0.00493	0.0921	0.0402	**2.39**	4.92	0.492	--
MW-307	03/28/22	**0.0982**	0.0223	0.147	0.0988	**3.69**	--	--	--
MW-307	06/29/22	**0.149**	0.0318	0.176	0.158 J	**2.87**	4.02	0.33 J	--
MW-307	09/20/22	**0.16**	0.0199	0.117	0.108	**2.49**	--	--	--
MW-307	12/12/22	**0.0820**	0.0190	0.0740	0.0793	**2.00**	5.93	0.699	--
MW-307	03/27/23	0.0698	0.00305	0.000735 J	0.00571	0.569	--	--	--
MW-307	06/13/23	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.247	<0.412	--
MW-307	09/11/23	0.0545	0.0216	0.0856	0.0928	**2.87**	--	--	--
MW-307	12/19/23	0.0303	0.0101	0.0260	0.0431	**2.00**	6.73	0.923	--
MW-307	03/11/24	0.0183	0.00743	0.0267	0.0276	**1.09**	--	--	--
MW-307	06/19/24	0.0498	0.0164 J+	0.0679	0.0416	**2.46**	3.55 J-	0.440 J-	--
MW-307	09/18/24	0.0440	0.0124	0.0284	0.0356	**2.37**	--	--	--
MW-307	12/16/24	0.0503	0.0120	0.0228	0.0311	**1.82**	2.50	0.499	--
MW-308	11/26/12	**0.144**	0.0010 J	0.0072	0.0013 J	0.778	--	--	--
MW-308	02/22/13	**0.668**	0.0078 J	0.0443	0.0059 J	**3.48**	0.354	< 0.10	--
MW-308	05/15/13	**0.392**	0.0052 J	0.0427	< 0.0046	**2.54**	--	--	--
MW-308	11/06/13	**0.237**	0.0033 J	0.0056	0.0026 J	**1.65**	--	--	--
MW-308	04/22/14	0.0165	< 0.00020	0.00036 J	< 0.00046	0.146	--	--	--
MW-308	11/04/14	**0.132**	0.0012	0.0044	0.00058	0.782	< 0.048	< 0.095	--
MW-308	03/09/15	**0.121 J**	0.002	0.00064 J	0.0013 J	**1.10**	--	--	--
MW-308	05/19/15	**0.213**	0.0013 J	< 0.00050	< 0.0012	0.973	--	--	--
MW-308	07/29/15	**0.242**	0.0017 J	0.0014 J	< 0.0012	**1.77**	--	--	--
MW-308	12/09/15	**0.146**	0.00361	0.0284	0.00527	**1.19**	--	--	--
MW-308	02/23/16	0.00711	< 0.0000380	0.000101 J	< 0.0000160	0.0619	--	--	--
MW-308	05/03/16	**0.281**	0.000903 J	0.00376	0.000680 J	**1.41**	--	--	--
MW-308	08/30/16	**0.196**	< 0.00312	< 0.00198	< 0.00162	**1.48**	--	--	--
MW-308	12/13/16	0.0309	< 0.000312	0.000529 J	< 0.000442	0.207	--	--	--
MW-308	03/14/17	0.000861	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-308	06/15/17	**0.383**	0.00147	0.00107	0.000477 J	**1.28**	--	--	--
MW-308	08/23/17	**0.234**	< 0.00312	< 0.00198	< 0.00442	0.812 J	--	--	--
MW-308	12/06/17	**0.085**	< 0.000312	0.000717 J	< 0.000442	0.245	--	--	--
MW-308	03/08/18	**0.252**	0.000314 J	< 0.000198	< 0.000442	0.550	--	--	--
MW-308	06/14/18	**0.238**	0.000765 J	0.00226	< 0.000442	0.487	--	--	--
MW-308	09/05/18	0.00741	< 0.000312	< 0.000198	< 0.000442	0.118 J	--	--	--
MW-308	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-308	03/18/19	0.000815	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-308	05/16/19	0.00703	< 0.000170	< 0.000190	< 0.000580	0.397	--	--	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-308	09/19/19	0.0096	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-308	12/09/19	0.000322 J	< 0.000312	< 0.000198	< 0.000442	0.118 J	--	--	--
MW-308	04/27/20	0.00314	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-308	06/29/20	0.00406	< 0.000312	0.000292 J	< 0.000442	0.140 J	--	--	--
MW-308	09/21/20	0.0175	0.00145	<0.001	<0.003	0.185	--	--	--
MW-308	12/16/20	**0.0730 J**	0.0954 J	0.026 J	0.0417 J	0.300	--	--	--
MW-308	04/12/21	0.0365 J+	0.000521 J+	0.000515 J+	<0.000500	0.267	--	--	--
MW-308	06/14/21	0.0572	0.00139	0.000975 J	0.00155 J	0.793	--	--	--
MW-308	09/22/21	**0.129**	0.00408	0.000975 J	0.00257 J	**1.25**	--	--	--
MW-308	12/14/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	--	--	--
MW-308	03/28/22	0.00476	<0.00100	0.000244 J	<0.00300	0.106 J	--	--	--
MW-308	06/29/22	<0.000400	<0.00100	0.000281 J	0.000485 J	0.0545 J	--	--	--
MW-308	09/20/22	0.0461	0.00355	0.000888 J	0.00171 J	0.696	--	--	--
MW-308	12/12/22	0.00143	<0.00100	<0.00100	<0.00300	<0.150	--	--	--
MW-308	03/27/23	0.0418	0.00257	0.0254	0.0100	0.854	--	--	--
MW-308	06/13/23	<0.000400	<0.00100	0.000368 J	<0.00300	0.175	--	--	--
MW-308	09/11/23	0.000979 J	0.000845 J	<0.00100	<0.00200	0.154	--	--	--
MW-308	12/19/23	0.00426	<0.00100	<0.00100	<0.00200	<0.100	--	--	--
MW-308	03/11/24	<0.00100	<0.00100	<0.00100	<0.00200	<0.100	--	--	--
MW-308	06/19/24	<0.00100	<0.00100	<0.00100	<0.00200	0.0777 J	--	--	--
MW-308	09/18/24	0.00192	0.00107	<0.00100	0.000598 J	0.482	--	--	--
MW-308	12/16/24	<0.00100	<0.00100	<0.00100	<0.00200	<0.150	--	--	--
MW-309	11/28/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-309	02/21/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0790 J	< 0.10	--
MW-309	05/16/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-309	11/06/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-309	04/23/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-309	07/24/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.102	< 0.094	--
MW-309	11/03/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.095	--
MW-309	05/20/15	< 0.00020	< 0.00020	0.00027 J	< 0.00046	0.0542 J	--	--	--
MW-309	12/08/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	< 0.241	< 0.402	--
MW-309	05/04/16	< 0.0000930	< 0.000312	0.000337 J	< 0.000162	< 0.100	--	--	--
MW-309	12/12/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	0.0834 J	< 0.0595	--
MW-309	06/13/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-309	12/05/17	0.000184 J	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.0877 J	< 0.128	--
MW-309	06/12/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-309	12/20/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.220 J	< 0.118	--
MW-309	05/16/19	< 0.000200	< 0.000170	< 0.000190	< 0.000580	0.300	--	--	--
MW-309	12/11/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.0804 J	0.614	<0.120	--
MW-309	06/29/20	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.123 J	--	--	--
MW-309	12/15/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	0.292	<0.390	--
MW-309	06/15/21	<0.000400	<0.00100	<0.00100	<0.00300	0.150	--	--	--
MW-309	12/15/21	<0.000400	<0.00100	<0.00100	<0.00300	0.113 J	0.273	0.140 J	--
MW-309	06/28/22	<0.000400	<0.00100	<0.00100	<0.00300	0.108 J	--	--	--
MW-309	12/13/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.249	<0.391	--
MW-309	06/14/23	<0.000400	<0.00100	<0.00100	<0.00300	0.0514 J	--	--	--
MW-309	12/20/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.100	0.149	0.144 J	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-309	06/18/24	<0.00100	<0.00100	<0.00100	<0.00200	0.129 J	--	--	--
MW-309	12/17/24	<0.00100	<0.00100	<0.00100	<0.00200	0.0861 J	0.202 J	0.175 J	--
MW-310	11/28/12	**0.86**	0.0265	0.211	0.147	**5.74**	--	--	--
MW-310	02/21/13	**1.80**	0.0768	0.506	0.180	**8.37**	0.603	< 0.10	--
MW-310	05/14/13	**0.993**	0.0703	0.654	0.175	**6.49**	--	--	--
MW-310	09/05/13	**0.960**	0.0598	0.310	0.110	**5.51**	--	--	--
MW-310	11/05/13	**0.772**	0.0409	0.226	0.0846	**4.92**	--	--	--
MW-310	01/16/14	**0.821**	0.0414	0.189	0.0775	**5.94**	--	--	< 0.001[1]
MW-310	04/23/14	**0.796**	0.0432	0.187	0.0607	**5.88**	--	--	--
MW-310	07/24/14	**0.920**	0.0489	0.368	0.0647	**6.36**	0.605	< 0.094	--
MW-310	11/04/14	**0.739**	0.0387	0.132	0.0538	**5.15**	0.613	< 0.094	--
MW-310	03/09/15	**0.736**	0.0475	0.189	0.0606	**4.71**	--	--	--
MW-310	05/21/15	**0.641**	0.0464	0.169	0.0572	**4.39**	--	--	< 0.010
MW-310	07/28/15	**0.714**	0.0428	0.181	0.0488	**3.72**	--	--	--
MW-310	12/10/15	**0.405**	0.0396	0.0771	0.0564	**3.89**	2.75	< 0.390	--
MW-310	02/23/16	**0.755**	0.0436	0.303	0.0615	**4.86**	--	--	--
MW-310	05/02/16	**0.655**	0.0349	0.324	0.0721	**4.82**	--	--	--
MW-310	08/29/16	**0.734**	0.0608	0.209	0.0885	**5.38**	--	--	--
MW-310	12/15/16	**0.673**	0.0504	0.289	0.0747	**5.92**	1.72	< 0.0624	--
MW-310	03/13/17	**0.809**	0.0541	0.387	0.0848	**5.58**	--	--	--
MW-310	06/15/17	**0.984**	0.0504	0.318	0.0635	**4.29**	--	--	--
MW-310	08/22/17	0.0562	0.0135	0.0416	0.0297	**2.17**	--	--	--
MW-310	12/05/17	0.00444	0.000430 J	0.0122	0.0172	0.459	1.66	< 0.122	--
MW-310	03/06/18	0.0293	< 0.000312	0.00108	0.00167 J	0.724	--	--	--
MW-310	06/13/18	0.0448	0.00103	0.0098	0.00308	0.748	--	--	--
MW-310	09/06/18	0.0182	0.000905 J	< 0.000198	0.000637 J	0.284	--	--	--
MW-310	12/20/18	0.00126	< 0.000312	< 0.000198	< 0.000442	0.0782 J	0.652	0.126 J	--
MW-310	03/19/19	0.00127	< 0.000312	0.000226 J	< 0.000442	0.297	--	--	--
MW-310	05/16/19	< 0.000200	< 0.000170	< 0.000190	< 0.000580	0.240	--	--	--
MW-310	09/19/19	0.000104 J	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-310	12/11/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.0739 J	0.453	< 0.120	--
MW-310	04/28/20	0.00595	< 0.000312	0.000357 J	< 0.000442	0.579	--	--	--
MW-310	06/30/20	0.00523	< 0.000312	0.000481 J	< 0.000442	0.669 J	--	--	--
MW-310	09/21/20	0.00903	<0.001	0.000681 J	<0.003	0.427	--	--	--
MW-310	12/15/20	0.00622	<0.0002	0.00156	<0.0005	0.726	8.62	0.508	--
MW-310	04/12/21	0.0221 J-	0.000414 J	0.00269 J-	0.000570 J-	**1.61**	--	--	--
MW-310	06/15/21	0.0289	0.000421 J	0.00359	0.00117 J	0.554	--	--	--
MW-310	09/22/21	0.0159	<0.00100	0.00137	<0.00300	0.343	--	--	--
MW-310	12/16/21	0.0166	<0.00100	0.00170	0.000730 J	**1.40**	6.76	0.667	--
MW-310	03/29/22	0.0313	0.000978 J	0.00948	0.00296 J	**1.55**	--	--	--
MW-310	06/28/22	0.0392	0.000966 J	0.0179	0.00550	0.924	--	--	--
MW-310	09/20/22	0.0244	0.00129	0.00162	0.00206 J	0.770	--	--	--
MW-310	12/13/22	0.0163	0.00103	0.000555 J	0.00144 J	0.463	4.64	0.743	--
MW-310	03/27/23	0.0369	0.00237	0.0216	0.00890	0.879	--	--	--
MW-310	06/13/23	0.0275	0.00153	0.00761	0.00148 J	0.474	--	--	--
MW-310	09/11/23	0.0163	0.00112	<0.00100	0.00163 J	0.872	--	--	--
MW-310	12/19/23	0.0104	0.00150	0.00344	0.00339	0.987	5.56	2.42	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-310	03/12/24	0.0124	0.00183	0.00604	0.00613	0.896	--	--	--
MW-310	06/18/24	0.0233	0.00164	0.00145	0.00245	**1.06**	--	--	--
MW-310	09/18/24	0.0228	0.00366	0.000534 J	0.00796	**1.21**	--	--	--
MW-310	12/17/24	0.0201	0.00315	<0.00100	0.00788	**1.01**	3.23	0.905	--
MW-311	11/05/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.095	< 0.010
MW-311	03/09/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-311	06/11/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-311	07/28/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-311	12/10/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	--	--	--
MW-311	02/23/16	< 0.0000320	< 0.0000380	< 0.0000860	< 0.0000160	< 0.0178	--	--	--
MW-311	05/04/16	0.000716	< 0.000312	< 0.000198	< 0.000162	0.0260 J	--	--	--
MW-311	08/29/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000162	< 0.0178	--	--	--
MW-311	12/15/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	--	--	--
MW-311	03/13/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	06/15/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	08/22/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	12/07/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	03/08/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	06/13/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	09/05/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	12/20/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	03/18/19	0.000107 J	0.000409 J	< 0.000198	< 0.000442	0.300	--	--	--
MW-311	05/16/19	0.000237 J	0.000976 J	< 0.000190	< 0.000580	0.618	--	--	--
MW-311	09/19/19	0.000211 J	< 0.000312	< 0.000198	< 0.000442	0.461	--	--	--
MW-311	12/12/19	< 0.0000930	< 0.000312	0.000290 J	0.000839 J	0.751	--	--	--
MW-311	04/27/20	0.000221 J	0.00104	0.000292 J	0.000654 J	0.919	--	--	--
MW-311	06/30/20	0.000252 J	0.000799 J	0.000361 J	0.000883 J	**1.41 J**	--	--	--
MW-311	09/22/20	0.000313 J	0.00122	0.000351 J	0.000558 J	0.894	--	--	--
MW-311	12/15/20	0.000211	0.000865	0.000386	0.000641	**1.66 J+**	--	--	--
MW-311	04/13/21	<0.000200	0.00102	0.000247	<0.000500	**1.32**	--	--	--
MW-311	09/23/21	0.00207	0.00309	0.000899 J	0.000789 J	**1.20**	--	--	--
MW-311	12/16/21	0.000347 J	0.000923 J	0.000343 J	0.00105 J	**1.63**	--	--	--
MW-311	03/29/22	0.000243 J	0.000909 J	0.000302 J	0.000828 J	**1.66**	--	--	--
MW-311	06/28/22	0.00253	0.00349	0.000596 J	0.000644 J	**2.05**	--	--	--
MW-311	09/20/22	0.00223	0.00339	0.000472 J	0.00113 J	**1.57**	--	--	--
MW-311	12/13/22	0.00374	0.00260	0.000542 J	0.00100 J	**1.32**	--	--	--
MW-311	03/28/23	0.00191	0.00233	0.000746 J	<0.00300	**1.64**	--	--	--
MW-311	06/14/23	0.00239	0.00281	0.000568 J	0.00115 J	**1.53**	--	--	--
MW-311	09/12/23	0.00217	0.00312	0.000520 J	0.000984 J	**2.49**	--	--	--
MW-311	12/20/23	0.00189	0.00206	<0.00100	0.00105 J	**1.84**	--	--	--
MW-311	03/12/24	0.00144	0.00207	0.000510 J	<0.00200	**2.82**	--	--	--
MW-311	06/17/24	0.000662 J	0.00186	<0.00100	<0.00200	**3.01**	--	--	--
MW-311	09/19/24	0.00126	0.00256	0.000584 J	0.000930 J	**2.80**	--	--	--
MW-311	12/17/24	0.0106	0.00263	0.000552 J	0.00161 J	**2.50**	--	--	--
MW-312	11/05/14	**0.239**	0.0058	0.0065	0.0102	**1.64**	1.13	0.132 J	< 0.010
MW-312	03/09/15	**0.357**	0.0044 J	0.0086	0.0050 J	**1.91**	--	--	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-312	06/11/15	**0.204**	0.0034 J	0.0023 J	0.0027 J	**1.35**	--	--	--
MW-312	07/28/15	**0.313**	0.0041 J	0.0030 J	0.0032 J	**1.65**	--	--	--
MW-312	12/10/15	**0.0718**	0.00333	0.00222	0.00461	**1.26**	--	--	--
MW-312	02/23/16	**0.327**	0.00354	0.00759	0.00416	**1.96**	--	--	--
MW-312	05/04/16	**0.414**	0.00399	0.00662	0.00376	**2.22**	--	--	--
MW-312	08/29/16	**0.370**	0.00457 J	0.00354 J	0.00394 J	**2.30**	--	--	--
MW-312	12/15/16	**0.356**	0.00336 J	0.00556 J	< 0.000442	**2.27**	--	--	--
MW-312	03/13/17	**0.350**	0.00362	0.00527	0.00375	**2.07**	--	--	--
MW-312	06/15/17	**0.383**	0.00372	0.00425	0.00368 J	**1.89**	--	--	--
MW-312	08/23/17	**0.330**	0.00395	0.00279	0.00422	**2.02**	--	--	--
MW-312	12/07/17	**0.241**	0.00441	0.00223	0.00708	**1.72**	--	--	--
MW-312	03/08/18	**0.261**	0.00273 J	0.00260 J	0.00311 J	**1.77**	--	--	--
MW-312	06/13/18	**0.284**	0.0044	0.00243	0.0048	**1.69**	--	--	--
MW-312	09/05/18	**0.283**	0.00405	0.00306	0.0041	**2.06**	--	--	--
MW-312	12/20/18	**0.126**	0.00284	0.00231	0.00361	**1.44**	--	--	--
MW-312	03/19/19	**0.183**	0.00372	0.00472	0.00447	**2.07**	--	--	--
MW-312	05/16/19	**0.189**	0.00286	0.00353	0.00290 J	**2.50**	--	--	--
MW-312	09/19/19	**0.0928**	0.00233	0.00307	0.00220 J	**1.64**	--	--	--
MW-312	12/12/19	**0.094**	0.00251	0.00341	0.00275 J	**1.70**	--	--	--
MW-312	04/28/20	**0.0721**	0.00213	0.00315	0.00274 J	**1.66**	--	--	--
MW-312	06/30/20	**0.0792**	0.00238	0.00406	0.00208 J	**1.47**	--	--	--
MW-312	09/22/20	**0.176**	0.00286	0.0068	0.00295 J	**2.69**	--	--	--
MW-312	12/15/20	0.0498	0.00251	0.00437	0.00284	**2.56 J+**	--	--	--
MW-312	04/13/21	**0.121**	0.00244	0.00453	0.00219	--	--	--	--
MW-312	06/16/21	0.0472	0.00214	0.00250	0.00199 J	**1.57**	--	--	--
MW-312	09/23/21	0.0398	0.00264	0.00329	0.00226 J	**1.83**	--	--	--
MW-312	12/16/21	0.0300	0.00225	0.00290	0.00237 J	**2.99**	--	--	--
MW-312	03/29/22	0.0136	0.00172	0.00240	0.00180 J	**2.77**	--	--	--
MW-312	06/29/22	0.0358	0.00269	0.00230	0.00205 J	**2.28**	--	--	--
MW-312	09/20/22	0.0203	0.00240	0.00207	0.00231 J	**1.90**	--	--	--
MW-312	12/13/22	0.00392	0.00214	0.00126	0.00198 J	**1.72**	--	--	--
MW-312	03/28/23	0.00491	0.00205	0.00101	<0.00300	**1.32**	--	--	--
MW-312	06/14/23	0.00488	0.00196	0.00104	0.00179 J	**1.23**	--	--	--
MW-312	09/12/23	0.0110	0.00227	0.00118	0.00208	**2.58**	--	--	--
MW-312	12/20/23	0.0110	0.00246	0.00127	0.00236	**2.15**	--	--	--
MW-312	03/12/24	0.0108	0.00269	0.00194	0.00244	**3.18**	--	--	--
MW-312	06/18/24	0.00659	0.00210	0.00123	<0.00200	**3.61**	--	--	--
MW-312	09/19/24	0.00716	0.00241	0.00114	0.00208	**2.98**	--	--	--
MW-312	12/17/24	0.00549	0.00247	0.00141	0.00238	**2.75**	--	--	--
MW-313	08/29/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000162	<0.0178	0.218	< 0.0603	--
MW-313	12/12/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.100	0.207	< 0.0598	--
MW-313	03/13/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.146 J	< 0.121	--
MW-313	06/15/17	< 0.0000930	< 0.000312	< 0.000198	0.000463 J	< 0.0704	0.165 J	< 0.122	--
MW-313	08/22/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.222 J	< 0.121	--
MW-313	12/07/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.153 J	< 0.120	--
MW-313	03/07/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.120	< 0.131	--
MW-313	06/13/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.139 J	< 0.123	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-313	09/05/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.362	0.255 J	--
MW-313	12/20/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.468	0.327 J	--
MW-313	03/19/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.174 J	< 0.117	--
MW-313	05/16/19	< 0.000200	< 0.000170	< 0.000190	< 0.000580	0.0807	0.207 J	0.164 J	--
MW-313	09/19/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.237	< 0.114	--
MW-313	12/12/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.473	0.153 J	--
MW-313	04/27/20	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.149 J	< 0.122	--
MW-313	06/30/20	0.000136 J	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.260	< 0.116	--
MW-313	09/22/20	<0.0004	<0.001	<0.001	<0.003	<0.150	0.309	<0.408	--
MW-313	12/15/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	0.288	<0.388	--
MW-313	04/13/21	<0.000200	<0.000200	<0.000200	<0.000500	<0.250	0.272	<0.350	--
MW-313	06/16/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.156 J	<0.401	--
MW-313	09/23/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.161 J	<0.392	--
MW-313	12/16/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.359	0.185 J	--
MW-313	03/29/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.237	<0.395	--
MW-313	06/28/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.177 J	0.140 J	--
MW-313	09/20/22	<0.000400	<0.00100	<0.00100	<0.00300	0.0407 J	<0.230	<0.383	--
MW-313	12/13/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.523	0.333 J	--
MW-313	03/28/23	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.224	<0.373	--
MW-313	06/14/23	<0.000400	<0.00100	<0.00100	<0.00300	0.0325 J	<0.244	<0.407	--
MW-313	09/12/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.0500	0.157	0.140 J	--
MW-313	12/20/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.100	0.627	0.517	--
MW-313	03/12/24	<0.00100	<0.00100	<0.00100	<0.00200	0.0740 J	0.184	0.260 J	--
MW-313	06/18/24	<0.00100	<0.00100	<0.00100	<0.00200	<0.150	0.0992 J	0.150 J	--
MW-313	09/19/24	<0.00100	<0.00100	<0.00100	<0.00200	<0.150	0.125 J	0.186 J	--
MW-313	12/17/24	<0.00100	<0.00100	<0.00100	<0.00200	<0.150	0.243	0.351 J	--
MW-314	08/30/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000162	0.182	0.293	< 0.0599	--
MW-314	12/14/16	0.00432	0.000374 J	< 0.000198	< 0.000442	0.298	0.401	0.0679 J	--
MW-314	03/13/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.0891 J	0.245	<0.120	--
MW-314	06/14/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.227 J	< 0.122	--
MW-314	08/23/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.136 J	0.283	< 0.124	--
MW-314	12/06/17	0.000153 J	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.285	< 0.122	--
MW-314	03/07/18	0.00726	< 0.000312	< 0.000198	< 0.000442	0.131 J	0.336	< 0.127	--
MW-314	06/12/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.121 J	0.460	< 0.121	--
MW-314	09/05/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.203	0.825	0.501	--
MW-314	12/20/18	0.000564	0.000600 J	< 0.000198	< 0.000442	0.138 J	0.788	0.471	--
MW-314	03/19/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.157	0.608	0.139 J	--
MW-314	05/16/19	< 0.000200	< 0.000170	< 0.000190	< 0.000580	0.201	2.09	0.248 J	--
MW-314	12/10/19	< 0.000105 J	0.000400 J	< 0.000198	< 0.000442	0.260	1.44	0.178 J	--
MW-314	04/28/20	0.000578	< 0.000312	< 0.000198	< 0.000442	0.283	2.36	0.186 J	--
MW-314	06/29/20	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.147 J	2.57	0.214 J	--
MW-314	09/22/20	0.00584	0.000903 J	<0.001	0.000807 J	0.345	1.60	0.155 J	--
MW-314	12/15/20	0.0146	0.00182	0.00036	0.00186	0.578	1.84	<0.379	--
MW-314	04/13/21	<0.000200	0.000391 J+	<0.000200	<0.000500	0.363	2.75	0.745	--
MW-314	03/28/22	0.000477	0.000624 J	<0.00100	0.000682 J	0.253	0.682	<0.391	--
MW-314	06/28/22	<0.000400	0.000346 J	<0.00100	<0.00300	0.253	0.936	0.166 J	--
MW-314	09/20/22	0.00523	0.00187	0.0294	0.00795	0.634	2.63	0.237 J	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-314	03/27/23	0.000964	<0.00100	<0.00100	<0.00300	0.150	0.664	<0.393	--
MW-314	06/14/23	<0.000400	<0.00100	<0.00100	<0.00300	0.123 J	0.666	<0.405	--
MW-314	12/20/23	0.00147	0.000584 J	<0.00100	0.000741 J	0.331	1.28	0.466	--
MW-314	06/19/24	0.000334 J	<0.00100	<0.00100	<0.00200	0.376	1.34	0.442	--
MW-314	12/17/24	0.000406 J	0.00110	<0.00100	0.00144 J	0.522	1.62	0.535	--
MW-315	08/29/16	**0.0965**	0.00265	0.000548 J	0.00135 J	0.453	1.55	< 0.0600	--
MW-315	12/12/16	0.0174	0.00361	0.0023	0.00408	**1.17**	1.29	0.0871 J	--
MW-315	03/13/17	0.0295	0.00478	0.00153	0.00793	**1.24**	1.64	< 0.121	--
MW-315	06/15/17	**0.0804**	0.00426	0.000634 J	0.00965	**1.20**	2.95	< 0.122	--
MW-315	08/23/17	**0.0727**	0.00403	0.000909 J	0.00871	**1.71**	2.74	< 0.123	--
MW-315	12/07/17	0.00479	0.00377	0.000382 J	0.00756	**1.19**	2.21	< 0.121	--
MW-315	03/08/18	0.0435	0.00411	0.000736 J	0.00712	**1.39**	1.15	< 0.125	--
MW-315	06/13/18	0.0619	0.00529	0.000648 J	0.00762	**1.19**	1.78	< 0.120	--
MW-315	09/05/18	0.0178	0.00461	0.000476 J	0.00904	**1.33**	2.89	0.267 J	--
MW-315	12/20/18	0.00283	0.00464	0.000599 J	0.0106	**1.16**	3.06	0.310 J	--
MW-315	03/18/19	0.0233	0.00363	0.000959 J	0.0039	**1.40**	1.89	0.149 J	--
MW-315	05/16/19	0.0565	0.00393	0.000584 J	0.00399	**2.16**	2.38	0.179 J	--
MW-315	09/19/19	0.0361	0.0036	0.000542 J	0.00353	**1.29**	2.61	0.133 J	--
MW-315	12/12/19	0.00334	0.00389	0.000667 J	0.005	**1.68**	3.96	0.266 J	--
MW-315	04/27/20	0.051	0.00406	0.000695 J	0.00368	**1.66**	2.81	0.126 J	--
MW-315	06/30/20	0.0699	0.00574	0.000878 J	0.00413	**1.82**	2.74	0.155 J	--
MW-315	09/22/20	0.0297	0.00383	0.000625 J	0.00266 J	**1.78**	2.89	0.171 J	--
MW-315	12/15/20	0.0028	0.0044	0.000673	0.00368	**2.26 J+**	3.34	<0.385	--
MW-315	04/13/21	0.0666 J	0.00493	0.00141	0.00256	**2.90 J+**	5.04	0.691	--
MW-315	06/16/21	0.0578	0.00411	0.00182	0.00289 J	**1.66**	3.32	0.218 J	--
MW-315	09/23/21	0.00915	0.00392	0.000428 J	0.00276 J	**1.48**	3.27	0.180 J	--
MW-315	12/16/21	0.00421	0.00375	0.000543 J	0.00251 J	**2.81**	3.23	0.296 J	--
MW-315	03/29/22	0.0452	0.00420	0.000890 J	0.00252 J	**2.41**	2.44	0.136 J	--
MW-315	06/28/22	0.0177	0.00382	0.000548 J	0.00284 J	**2.37**	2.31	0.207 J	--
MW-315	09/20/22	0.00610	0.00379	0.000566 J	0.00230 J	**2.21**	2.98	0.194 J	--
MW-315	12/13/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.15	0.47	0.323 J	--
MW-315	03/28/23	0.0273	0.00410	0.00102	0.00384	**1.72**	2.01	<0.368	--
MW-315	06/14/23	0.0169	0.00427	0.00118	0.00292 J	**1.65**	2.50	<0.394	--
MW-315	09/12/23	0.00101	0.00354	<0.00100	0.00296	**3.02**	4.17	0.290 J	--
MW-315	12/20/23	0.00658	0.00466	0.000664 J	0.00362	**2.74**	3.02	0.399	--
MW-315	03/12/24	0.00534	0.00315	0.000641 J	0.00251	**3.82**	4.73	0.531	--
MW-315	06/19/24	0.0174	0.00340	0.000941 J	0.00229	**4.09**	4.49	0.408	--
MW-315	09/19/24	0.0118	0.00316	0.000502 J	0.00289	**3.51**	4.05	0.377	--
MW-315	12/17/24	0.00171	0.00320	<0.00100	0.00297	**2.79**	4.17	0.488	--
SH-04	01/13/04	**1.20**	0.21	0.14	2.11	**15.0**	4.7	< 2.5	--
SH-04	04/20/04	**1.50**	0.49	0.64	5.79	**26.0**	6.2	< 10	--
SH-04	07/27/04	**1.30**	0.13	0.55	1.78	**15.0**	5.4	0.53	--
SH-04	04/20/05	**0.98**	0.061	0.36	1.07	**11.0**	4.2	< 1.5	--
SH-04	04/25/06	**1.25**	0.089	0.65	2.31	**20.0**	8.23	2.52	--
SH-04	10/30/07	**0.884**	0.0315	0.315	0.0814	**<5.0**	--	--	--
SH-04	05/20/08	**1.10**	0.048	0.52	0.657	**8.9**	4.80	0.92	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SH-04	11/20/08	**0.79**	0.032	0.23	0.0384	**6.6**	2.70	< 0.5	--
SH-04	04/08/09	**0.87**	0.04	0.25	0.19	**9.2**	4.70	< 0.1	--
SH-04	11/16/09	**0.48**	0.023	0.068	0.016	**4.9**	3.70	< 0.1	--
SH-04	04/27/10	**0.71**	0.027	0.27	0.13	**7.3**	4.70	0.39	--
SH-04	10/25/10	**0.58**	0.019	0.18	0.013	**4.0**	2.80	< 0.1	--
SH-04	05/23/11	**0.655**	0.0145	0.151	0.034	**5.4**	1.84	0.13	--
SH-04	10/27/11	**0.393**	0.02	0.0926	0.0279	**5.35**	1.22	< 0.19	--
SH-04	03/01/12	**0.614**	0.0227	0.0932	0.0124 J	**5.53**	--	--	--
SH-04	06/11/12	**0.426**	0.0142	0.112	0.0198 J	**6.00**	1.49	0.393	--
SH-04	09/25/12	**0.124**	0.0184	0.461	0.139	**6.52**	--	--	--
SH-04	11/25/12	**0.073**	0.0079 J	0.609	0.326	**8.15**	0.762	< 0.098	--
SH-04	05/15/13	0.0016 J	0.0005	0.0042	0.0032 J	**2.16**	0.376	< 0.096	--
SH-04	11/04/13	0.0032	0.00043 J	0.0071	0.005	**1.05**	0.134	< 0.094	--
SH-04	04/24/14	0.0091	0.00053 J	0.00090 J	0.0014 J	0.938	0.469	0.0944 J	--
SH-04	11/06/14	0.0249	0.0023	0.0173	0.0072	0.984	0.608	< 0.094	--
SH-04	05/21/15	0.0094	0.00048 J	0.0035	0.0021	0.78	0.171	< 0.094	--
SH-04	12/08/15	0.0155	0.00118	0.00359	0.00409	0.927	1.74	0.422	--
SH-04	05/05/16	0.000454	< 0.000312	0.000939 J	0.000887 J	0.941	0.23	< 0.0601	--
SH-04	12/14/16	0.00534	0.000990 J	0.0199	0.0123	0.843	1.00	0.102 J	--
SH-04	06/14/17	0.00158	0.000468 J	0.00192	0.00208 J	0.702	0.242 J	0.138 J	--
SH-04	12/07/17	0.00934	0.0015	0.00205	0.00351	0.796	1.78	< 0.136	--
SH-04	06/13/18	0.0052	0.000593 J	0.0042	0.00212 J	0.724	0.187 J	< 0.123	--
SH-04	12/19/18	0.0118	0.00195	0.0125	0.00477	0.804	0.954	0.210 J	--
SH-04	05/16/19	0.00169	0.000346 J	0.00225	0.00227 J	**1.35**	0.582	0.174 J	--
SH-04	12/11/19	0.012	0.00186	0.00139	0.00342	0.0805	1.26	< 0.121	--
SH-04	06/30/20	0.00239	0.000477 J	0.00124	0.00123 J	0.379	0.256	< 0.119	--
SH-04	12/14/20	0.0118	0.00164	0.00587	0.00262	0.359	2.78	0.472	--
SH-04	06/15/21	0.00525	0.000511 J	0.00294	0.00162 J	0.472	0.209 J	<0.404	--
SH-04	12/15/21	0.0167	0.00172	0.00150	0.00380	**1.29**	2.67	0.400 J	--
SH-04	04/18/22	0.00626	0.00105	0.00384	0.00457	**1.17**	0.549	<0.392	--
SH-04	06/28/22	0.0117	0.00110	0.00263	0.00226 J	0.813	0.38	0.14 J	--
SH-04	12/13/22	0.00697	0.00107	0.00327	0.00283 J	0.369	1.82	0.417	--
SH-04	06/13/23	0.00265	0.000486 J	0.00175	0.00192 J	0.367	0.231 J	<0.398	--
SH-04	12/19/23	0.00223	0.000787 J	0.00329	0.00458	0.363	0.573	0.279 J	--
SH-04	06/18/24	0.00349	<0.00100	0.00106	<0.00200	0.232	0.904	0.287 J	--
SH-04	12/17/24	0.00478	0.00115	<0.00100	0.00163 J	0.247	2.57	0.361	--
TES-MW-1	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
TES-MW-1	04/20/04	0.0067	< 0.001	0.011	0.043	< 0.25	< 0.25	< 0.5	--
TES-MW-1	04/20/04	0.0075	< 0.001	0.013	0.049	< 0.25	< 0.25	< 0.5	--
TES-MW-1	07/28/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
TES-MW-1	10/18/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
TES-MW-1	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
TES-MW-1	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
TES-MW-1	04/19/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	< 0.25	< 0.5	--
TES-MW-1	07/13/05	0.001	< 0.001	0.006	0.0189	0.10	< 0.25	< 0.5	--
TES-MW-1	10/20/05	0.0039	< 0.001	0.013	0.0437	0.23	< 0.25	< 0.5	--
TES-MW-1	01/27/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	< 0.240	< 0.481	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TES-MW-1	11/18/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.25	< 0.5	--
TES-MW-1	11/18/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
TES-MW-1	10/26/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
TES-MW-1	05/24/11	<0.0003	<0.0005	<0.0003	<0.0007	<0.050	--	--	--
TES-MW-1	10/27/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	< 0.10	< 0.20	--
TES-MW-1	11/26/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.050	< 0.10	--
TES-MW-1	11/06/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.095	--
TES-MW-1	11/04/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.095	--
TES-MW-1	12/09/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	< 0.234	< 0.390	--
TES-MW-1	12/13/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	< 0.0466	< 0.0699	--
TES-MW-1	12/06/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.0816	< 0.122	--
TES-MW-1	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.106	< 0.116	--
TES-MW-1	12/09/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.111	< 0.121	--
TES-MW-1	12/16/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	<0.238	<0.397	--
TES-MW-1	12/14/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.237	0.162 J	--
TES-MW-1	12/12/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.256	<0.427	--
TES-MW-1	12/19/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.100	<0.110	0.115 J	--
TES-MW-1	12/16/24	<0.00100	<0.00100	<0.00100	<0.00200	<0.150	<0.216	<0.378	--
TX-03A	01/13/04	**2.9**	0.018	0.038	0.091	**2.7**	0.86	< 0.5	--
TX-03A	04/19/04	**4.4**	0.047	0.12	0.11	**12**	1.3	< 0.5	--
TX-03A	07/27/04	**1.7**	0.011	0.016	0.037	**5.2**	0.81	< 0.5	--
TX-03A	10/18/04	**3.2**	0.024	0.062	0.093	**7.5**	1.2	< 0.5	--
TX-03A	01/24/05	**2.5**	0.02	< 0.01	0.065	**8.2**	0.54	< 0.5	--
TX-03A	04/19/05	**2.5**	0.021	0.026	0.049	**6.1**	0.47	< 0.5	--
TX-03A	07/12/05	**3.1**	0.024	0.044	0.054	**10**	0.32	< 0.5	--
TX-03A	10/31/07	**2.2**	0.0233	0.0601	0.0503	<5.0	--	--	--
TX-03A	05/20/08	**0.88**	0.007	0.016	0.01	**3**	--	--	--
TX-03A	11/20/08	**2.1**	0.019	0.038	0.018	**4.5**	--	--	--
TX-03A	04/08/09	**1.2**	< 0.025	0.028	< 0.025	**3.5**	--	--	--
TX-03A	11/17/09	**0.97**	0.0078	0.016	0.011	**2.4**	--	--	--
TX-03A	04/27/10	**1.7**	0.0096	0.0087	0.0099	**4.6**	--	--	--
TX-03A	10/25/10	**1.7**	0.011	0.067	0.013	**3.3**	--	--	--
TX-03A	05/23/11	**1.78**	<0.025	0.044	<0.035	**7.53**	--	--	--
TX-03A	10/27/11	**3.44**	0.0712	0.147	0.111	**8.51**	--	--	--
TX-03A	03/01/12	**1.74**	0.0261	0.0272	0.0345 J	**5.58**	--	--	--
TX-03A	06/12/12	**1.57**	0.0200 J	0.0139 J	0.0300 J	**6.78**	--	--	--
TX-03A	09/25/12	**1.7**	0.0298	0.041	0.0501	**5.53**	--	--	--
TX-03A	11/28/12	**1.18**	0.0188 J	0.0232	0.0357 J	**4.91**	--	--	--
TX-03A	02/21/13	**2.81**	0.0403	0.0421	0.0489 J	**8.20**	0.32	< 0.10	--
TX-03A	05/15/13	**2.15**	0.0459 J	0.189	0.0643 J	**3.11**	--	--	--
TX-03A	11/05/13	**2.72**	0.0343 J	0.0364 J	0.0411 J	**6.01**	--	--	--
TX-03A	04/23/14	**1.22**	0.0171	0.0251	0.027	**5.76**	--	--	--
TX-03A	07/24/14	**1.64**	0.0317	0.0698	0.052	**7.55**	0.382	< 0.094	--
TX-03A	11/04/14	**0.941**	0.0137	0.0366	0.0269	**5.76**	0.448	< 0.094	--
TX-03A	03/09/15	**1.86**	0.0246 J	0.0581	0.0390 J	**7.16**	--	--	--
TX-03A	05/21/15	**1.15**	0.0144 J	0.0462	0.0260 J	**3.40**	--	--	--
TX-03A	07/28/15	**1.72**	0.0213 J	0.118	0.0355 J	**5.42**	--	--	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		**0.071**	**200**	**29**	**NE**	**1**	**10**	**10**	**0.0058**
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TX-03A	12/10/15	**0.635**	0.0126	0.026	0.0253	**3.32**	1.34	< 0.391	--
TX-03A	02/23/16	**1.78**	0.0274	0.0882	0.0385	**5.17**	--	--	--
TX-03A	05/02/16	**1.54**	0.037	0.208	0.0503	**6.30**	--	--	--
TX-03A	08/29/16	**0.844**	0.0257	0.246	0.053	**5.89**	--	--	--
TX-03A	12/15/16	**0.995**	0.0197 J	0.0697	0.0357 J	**4.81**	1.73	0.125 J	--
TX-03A	03/13/17	**0.76**	0.0208	0.0901	0.0352 J	**3.66**	--	--	--
TX-03A	06/13/17	**1.37**	0.0361	0.246	0.0618 J	**5.36**	--	--	--
TX-03A	08/22/17	**1.08**	0.0233	0.137	0.0363	**4.55**	--	--	--
TX-03A	12/05/17	**0.258**	0.00697 J	0.0172 J	0.0126 J	**3.07**	2.03	0.172 J	--
TX-03A	03/27/18	**0.135**	0.00114	0.00395	0.000969 J	**1.21**	--	--	--
TX-03A	06/13/18	**0.204**	0.0024	0.015	0.000713 J	0.97	--	--	--
TX-03A	09/06/18	**0.263**	0.00308	0.0252	0.00115 J	**1.31**	--	--	--
TX-03A	12/20/18	0.0278	0.000612 J	0.00282	0.000499 J	0.768	2.88	1.05	--
TX-03A	03/19/19	0.0131 J	< 0.000312	0.00143	< 0.000442	0.938	--	--	--
TX-03A	05/16/19	**0.102 J**	< 0.000170 J	0.00115 J	< 0.000580 J	0.991	--	--	--
TX-03A	09/19/19	0.00642	< 0.000312	0.00722	< 0.000442	0.446	--	--	--
TX-03A	12/11/19	0.00173	< 0.000312	0.0017	< 0.000442	0.521	1.72	0.154 J	--
TX-03A	04/28/20	0.023	< 0.000312	0.000578 J	< 0.000442	0.181	--	--	--
TX-03A	06/30/20	0.00796	< 0.000312	0.00135	< 0.000442	0.129 J	--	--	--
TX-03A	09/21/20	0.00527	<0.001	0.00293	<0.003	0.139 J	--	--	--
TX-03A	12/15/20	0.00499	0.00022	0.0029	<0.0005	<0.250	0.520	<0.371	--
TX-03A	04/12/21	0.0665 J	0.00151	0.00955	<0.000500	0.465	--	--	--
TX-03A	06/16/21	0.0416	0.00151	0.0192	0.000832 J	0.285	--	--	--
TX-03A	09/23/21	0.0183	0.000973 J	0.00677	0.000651 J	0.221	--	--	--
TX-03A	03/28/22	**0.121**	0.00255	0.0120	0.00163 J	0.998	--	--	--
TX-03A	06/28/22	**0.114**	0.00632	0.0132	0.00356	**1.39**	--	--	--
TX-03A	09/21/22	0.00895	0.000999 J	0.00181	0.00111 J	0.294	--	--	--
TX-03A	12/13/22	**0.122**	0.00701	0.00140	0.00682	**1.05**	1.51	0.598	--
TX-03A	03/27/23	**0.165**	0.00807	0.00532	0.00904	**1.50**	--	--	--
TX-03A	06/14/23	**0.241**	0.00880	0.00497	0.00791	**1.37**	--	--	--
TX-03A	09/12/23	**0.0890**	0.00760	0.000770 J	0.00860	**1.98**	--	--	--
TX-03A	12/20/23	**0.0886**	0.00846	0.00165	0.0108	**1.99**	1.20	0.374	--
TX-03A	03/11/24	**0.169**	<0.0100	<0.0100	<0.0200	**2.84**	--	--	--
TX-03A	06/19/24	**0.152**	<0.0100	<0.0100	<0.0200	**2.33**	--	--	--
TX-03A	09/19/24	**0.213**	0.0122	<0.0100	0.0147 J	**2.42**	--	--	--
TX-03A	12/17/24	**0.132**	0.00840 J	0.00506 J	0.0110 J	**1.92**	1.50	0.639	--
TX-04	01/13/04	0.025	0.0055	< 0.001	0.0194	0.65	0.59	< 0.5	--
TX-04	04/21/04	0.0025	0.0017	< 0.001	0.0031	0.47	2.2	< 0.75	--
TX-04	07/27/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	1.5	< 0.5	--
TX-04	10/18/04	< 0.001	< 0.001	< 0.001	0.0022	0.28	1.2	< 0.5	--
TX-04	01/24/05	0.031	0.0071	< 0.001	0.0204	0.87	0.64	< 0.5	--
TX-04	04/20/05	0.014	0.0036	< 0.001	0.0085	0.54	0.73	< 0.5	--
TX-04	07/12/05	< 0.001	< 0.001	< 0.001	0.0014	0.34	0.82	< 0.5	--
TX-04	10/18/05	< 0.001	< 0.001	< 0.001	< 0.001	0.20	1.1	< 0.5	--
TX-04	01/25/06	0.00127	0.001	< 0.0005	0.00151	0.206	0.835	< 0.476	--
TX-04	11/18/08	< 0.005	< 0.005	< 0.005	< 0.005	0.076	< 0.25	< 0.5	--
TX-04	11/16/09	< 0.0005	< 0.001	< 0.001	< 0.001	0.17	0.13	< 0.1	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TX-04	10/25/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.17	< 0.1	--
TX-04	05/23/11	<0.0003	<0.0005	<0.0003	<0.0007	0.0554	--	--	--
TX-04	10/26/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	0.0966	< 0.20	--
TX-04	11/26/12	0.0013	0.00038 J	< 0.00020	0.00052 J	0.0980 J	0.0807 J	< 0.10	--
TX-04	11/04/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0492 J	< 0.095	--
TX-04	11/06/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.096	--
TX-04	12/08/15	0.000268	< 0.0010	< 0.0010	< 0.0030	< 0.100	< 0.245	< 0.408	--
TX-04	12/12/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	0.0762 J	< 0.0608	--
TX-04	12/05/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.0834	< 0.125	--
TX-04	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.104	< 0.114	--
TX-04	12/12/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.122 J	< 0.119	--
TX-04	12/14/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	<0.110	<0.351	--
TX-04	12/15/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.247	<0.411	--
TX-04	12/13/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.232	<0.386	--
TX-04	12/19/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.100	<0.120	0.125 J	--
TX-04	12/17/24	<0.00100	<0.00100	<0.00100	<0.00200	<0.150	0.160 J	0.194 J	--
TX-06A	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	5.8	< 1	--
TX-06A	04/21/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	3.4	< 0.75	--
TX-06A	07/27/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	3.6	< 0.5	--
TX-06A	10/18/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	4.1	< 0.5	--
TX-06A	01/24/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	2.7	< 0.5	--
TX-06A	04/20/05	< 0.001	< 0.001	< 0.001	< 0.001	0.18	6.3	< 1.5	--
TX-06A	07/13/05	< 0.001	< 0.001	< 0.001	< 0.001	0.26	2.5	< 0.5	--
TX-06A	10/18/05	< 0.001	< 0.001	< 0.001	< 0.001	0.072	0.93	< 0.5	--
TX-06A	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	0.126	1.57	< 0.476	--
TX-06A	11/18/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	0.49	< 0.5	--
TX-06A	11/17/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.24	< 0.1	--
TX-06A	10/28/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.72	< 0.1	--
TX-06A	10/25/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	0.0519	0.499	< 0.21	--
TX-06A	11/25/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.50	0.716	< 0.098	--
TX-06A	11/07/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.358	< 0.095	--
TX-06A	11/06/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.758	0.184	--
TX-06A	12/08/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	1.03	<0.388	--
TX-06A	12/12/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	0.433	0.0707 J	--
TX-06A	12/05/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.36	< 0.122	--
TX-06A	12/20/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.592	0.244 J	--
TX-06A	12/10/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.244	< 0.119	--
TX-06A	12/14/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	1.32	0.589	--
TX-06A	12/15/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.589	0.146 J	--
TX-06A	12/12/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.659	0.210 J	--
TX-06A	12/19/23	<0.00100	<0.00100	<0.00100	<0.00200	<0.100	0.816	0.483	--
TX-06A	12/16/24	<0.00100	<0.00100	<0.00100	<0.00200	<0.150	0.885	0.527	--
MW-01	07/28/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--

Table 6

BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

		Volatile Organic Compounds				Hydrocarbons			Lead
Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Site-Specific Cleanup Level*		**0.071**	**200**	**29**	**NE**	**1**	**10**	**10**	**0.0058**
		mg/L	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**

Notes:
= Indicates data collected during this progress report period
* = Cleanup levels per the Cleanup Action Plan (Ecology, 1998)
[1] = Dissolved lead result
Bold = indicate detected concentration greater than cleanup level
TPHg = Total petroleum hydrocarbons as gasoline analyzed by Northwest Method NWTPH-Gx.
TPHd = Total petroleum hydrocarbons as diesel analyzed by Northwest Method NWTPH-Dx.
TPHo = Total petroleum hydrocarbons as oil analyzed by Northwest Method NWTPH-Dx.
NE = not established
mg/L = milligrams per liter
< = not detected at or above the indicated limit. Beginning June 12, 2012, limits shown are laboratory Method Detection Limits (MDLs). Prior to Ju
-- = not analyzed
J = Result is less than the reporting limit, but greater than or equal to the method detection limit, and the concentration is an approximate value.
J+ = The result is an estimated quantity, but the result may be biased high.
J- = The result is an estimated quantity, but the result may be biased low.

Table 7

Carcinogenic PAHs in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	PAHs							
		Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Indeno(1,2,3-cd)pyrene	cPAH TEQ
Site-Specific Cleanup Level*		--	--	--	--	--	--	--	0.000031
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-213	01/14/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	04/20/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	07/28/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	10/19/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	01/25/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	04/19/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	07/12/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	10/20/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	01/26/06	< 0.0000943	< 0.0000943	< 0.0000943	< 0.0000943	< 0.0000943	< 0.0000943	< 0.0000943	< 0.0000943
MW-213	10/30/07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MW-213	11/19/08	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MW-213	04/07/09	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	11/18/09	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	04/26/10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	10/28/10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	05/24/11	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
MW-213	10/25/11	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
MW-213	06/12/12	< 0.000050	< 0.000041	< 0.000035	< 0.000039	< 0.000045	< 0.000035	< 0.000035	< 0.000050
MW-213	11/29/12	< 0.000053	< 0.000041	< 0.000035	< 0.000039	< 0.000045	< 0.000035	< 0.000035	< 0.000053
MW-213	05/15/13	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033	< 0.000050
MW-213	11/05/13	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000043	< 0.000033	< 0.000033	< 0.000050
MW-213	04/23/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000043	< 0.000033	< 0.000033	< 0.000050
MW-213	11/05/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033	< 0.000050
MW-213	05/19/15	< 0.0014	< 0.0011	< 0.0013	< 0.0013	< 0.0016	< 0.0012	< 0.0013	< 0.0016
MW-213	12/09/15	< 0.0000948	< 0.0000948	< 0.0000948	< 0.0000948	< 0.0000948	< 0.0000948	< 0.0000948	< 0.0000948
MW-213	05/03/16	< 0.00000920	< 0.0000101	< 0.0000101	< 0.0000138	< 0.00000644	< 0.0000120	< 0.0000202	< 0.0000202
MW-213	12/13/16	0.0000122	< 0.0000887	< 0.0000108	< 0.0000148	< 0.00000690	< 0.0000128	< 0.0000217	0.00000122
MW-213	06/14/17	< 0.0000888	< 0.0000109	< 0.0000109	< 0.0000148	< 0.00000691	< 0.0000128	< 0.0000217	< 0.0000128
MW-213	12/07/17	< 0.00000965	< 0.0000106	< 0.0000106	< 0.0000145	< 0.00000676	< 0.0000125	< 0.0000212	< 0.0000212
MW-213	06/12/18	< 0.0000103	< 0.0000113	< 0.0000113	< 0.0000154	< 0.00000720	< 0.0000134	< 0.0000226	< 0.0000226
MW-213	12/19/18	< 0.0000119	< 0.0000119	< 0.0000109	< 0.0000149	< 0.00000893	< 0.0000129	< 0.0000218	< 0.0000218
MW-213	05/16/19	< 0.0000119	< 0.0000119	< 0.0000109	< 0.0000149	< 0.00000893	< 0.0000129	< 0.0000218	< 0.0000218
MW-213	12/11/19	< 0.0000119	< 0.0000896	< 0.0000109	< 0.0000149	< 0.00000995	< 0.0000129	< 0.0000219	< 0.0000219
MW-213	06/29/20	<0.0000124	<0.0000124	<0.0000113	<0.0000154	<0.0000103	<0.0000134	<0.0000226	<0.0000226
MW-213	12/16/20	<0.0000503	<0.000101	<0.0000503	<0.0000503	<0.000101	<0.000101	<0.0000503	<0.000101
MW-213	06/14/21	<0.0000506	<0.000101	<0.0000506	<0.0000506	<0.000101	<0.000101	<0.0000506	<0.000101
MW-213	12/16/21	<0.0000895	<0.0000895	<0.0000895	<0.0000895	<0.0000895	<0.0000895	<0.0000895	<0.0000895
MW-213	06/29/22	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905
MW-213	12/12/22	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905
MW-213	06/12/23	<0.0000907	<0.0000907	<0.0000907	<0.0000907	<0.0000907	<0.0000907	<0.0000907	<0.0000907
MW-213	12/18/23	<0.0000530	<0.000106	<0.000106	<0.0000530	<0.000106	<0.000106	<0.0000530	<0.000106
MW-213	06/19/24	<0.0000529	<0.000106	<0.000106	<0.0000529	<0.000106	<0.000106	<0.0000529	<0.000106
MW-213	12/16/24	<0.0000537	<0.000107	<0.000107	<0.0000537	<0.000107	<0.000107	<0.0000537	<0.000107
MW-214	01/30/03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	04/17/03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	07/17/03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	10/16/03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	01/14/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	04/20/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	07/28/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	10/19/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	01/25/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Table 7

Carcinogenic PAHs in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	PAHs							
		Benzo(a)-anthracene --	Benzo(a)-pyrene --	Benzo(b)-fluoranthene --	Benzo(k)-fluoranthene --	Chrysene --	Dibenz(a,h)-anthracene --	Indeno(1,2,3-cd)pyrene --	cPAH TEQ
Site-Specific Cleanup Level*		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**0.000031 mg/L**
MW-214	04/19/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	07/12/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	10/20/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	01/26/06	< 0.000099	< 0.000099	< 0.000099	< 0.000099	< 0.000099	< 0.000099	< 0.000099	< 0.000099
MW-214	10/30/07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MW-214	05/05/08	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MW-214	11/19/08	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MW-214	04/07/09	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	11/18/09	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	04/26/10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	10/28/10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	05/24/11	< 0.000029	< 0.000029	< 0.000029	< 0.000029	< 0.000029	< 0.000029	< 0.000029	< 0.000029
MW-214	10/25/11	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
MW-214	06/12/12	< 0.000051	< 0.000040	< 0.000034	< 0.000038	< 0.000044	< 0.000034	< 0.000034	< 0.000051
MW-214	11/29/12	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033	< 0.000050
MW-214	05/15/13	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033	< 0.000050
MW-214	11/05/13	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033	< 0.000050
MW-214	04/23/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000043	< 0.000033	< 0.000033	< 0.000050
MW-214	11/05/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033	< 0.000050
MW-214	05/19/15	< 0.0013	< 0.0010	< 0.0012	< 0.0013	< 0.0015	< 0.0012	< 0.0013	< 0.0015
MW-214	12/09/15	< 0.0000908	< 0.0000908	< 0.0000908	< 0.0000908	< 0.0000908	< 0.0000908	< 0.0000908	< 0.0015
MW-214	05/04/16	< 0.00000926	< 0.0000102	< 0.0000102	< 0.0000139	< 0.00000648	< 0.0000120	< 0.0000204	< 0.0000204
MW-214	12/14/16	0.00000994	< 0.0000883	< 0.0000108	< 0.0000147	< 0.00000687	< 0.0000128	< 0.0000216	0.000000994
MW-214	06/14/17	< 0.0000850	< 0.0000104	< 0.0000104	< 0.0000142	< 0.00000661	< 0.0000123	< 0.0000208	< 0.0000208
MW-214	12/07/17	< 0.0000102	< 0.0000112	< 0.0000112	< 0.0000153	< 0.00000713	< 0.0000132	< 0.0000224	< 0.0000224
MW-214	06/12/18	< 0.00000976	< 0.0000107	< 0.0000107	< 0.0000146	< 0.00000683	< 0.0000127	< 0.0000215	< 0.0000215
MW-214	12/19/18	< 0.0000119	< 0.0000119	< 0.0000109	< 0.0000149	< 0.00000894	< 0.0000129	< 0.0000219	< 0.0000219
MW-214	05/16/19	< 0.0000119	< 0.0000119	< 0.0000109	< 0.0000149	< 0.00000894	< 0.0000129	< 0.0000219	< 0.0000219
MW-214	12/11/19	0.0000141 J	< 0.0000921	< 0.0000113	< 0.0000154	< 0.0000102	< 0.0000133	< 0.0000225	0.00000141
MW-214	06/29/20	<0.0000117	<0.0000117	<0.0000108	<0.0000147	<0.00000977	<0.0000127	<0.0000215	<0.0000215
MW-214	12/16/20	<0.0000517	<0.000103	<0.0000517	<0.0000517	<0.000103	<0.000103	<0.0000517	<0.0000517
MW-214	06/14/21	<0.0000499	<0.0000999	<0.0000499	<0.0000499	<0.0000999	<0.0000999	<0.0000499	<0.0000499
MW-214	12/16/21	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905
MW-214	06/29/22	<0.0000910	0.0000123 J	<0.0000910	<0.0000910	0.0000148 J	<0.0000910	<0.0000910	0.0000124
MW-214	12/12/22	<0.0000904	<0.0000904	<0.0000904	<0.0000904	<0.0000904	<0.0000904	<0.0000904	<0.0000904
MW-214	06/12/23	0.0000224 J	<0.0000903	<0.0000903	<0.0000903	<0.0000903	<0.0000903	<0.0000903	0.00000224
MW-214	12/18/23	0.0000275 J	0.0000243 J	0.0000275 J	0.0000243 J	<0.0000984	<0.0000984	0.0000228 J	**0.0000345 J**
MW-214	06/19/24	<0.0000504	<0.000101	<0.000101	<0.0000504	<0.000101	<0.000101	<0.0000504	<0.000101
MW-214	12/16/24	<0.0000519	<0.000104	<0.000104	<0.0000519	<0.000104	<0.000104	<0.0000519	<0.000104
MW-301	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033	< 0.000050
MW-301	05/21/15	< 0.0014	< 0.0011	< 0.0013	< 0.0013	< 0.0016	< 0.0012	< 0.0013	< 0.0016
MW-302	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033	< 0.000050
MW-302	05/21/15	< 0.0013	< 0.0010	< 0.0012	< 0.0013	< 0.0015	< 0.0012	< 0.0013	< 0.0015
MW-303	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000043	< 0.000033	< 0.000033	< 0.000050
MW-303	05/20/15	< 0.0014	< 0.0011	< 0.0013	< 0.0013	< 0.0016	< 0.0012	< 0.0013	< 0.0016
MW-304	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033	< 0.000050
MW-304	05/20/15	< 0.0013	< 0.0010	< 0.0012	< 0.0013	< 0.0015	< 0.0012	< 0.0013	< 0.0015
MW-309	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033	< 0.000050

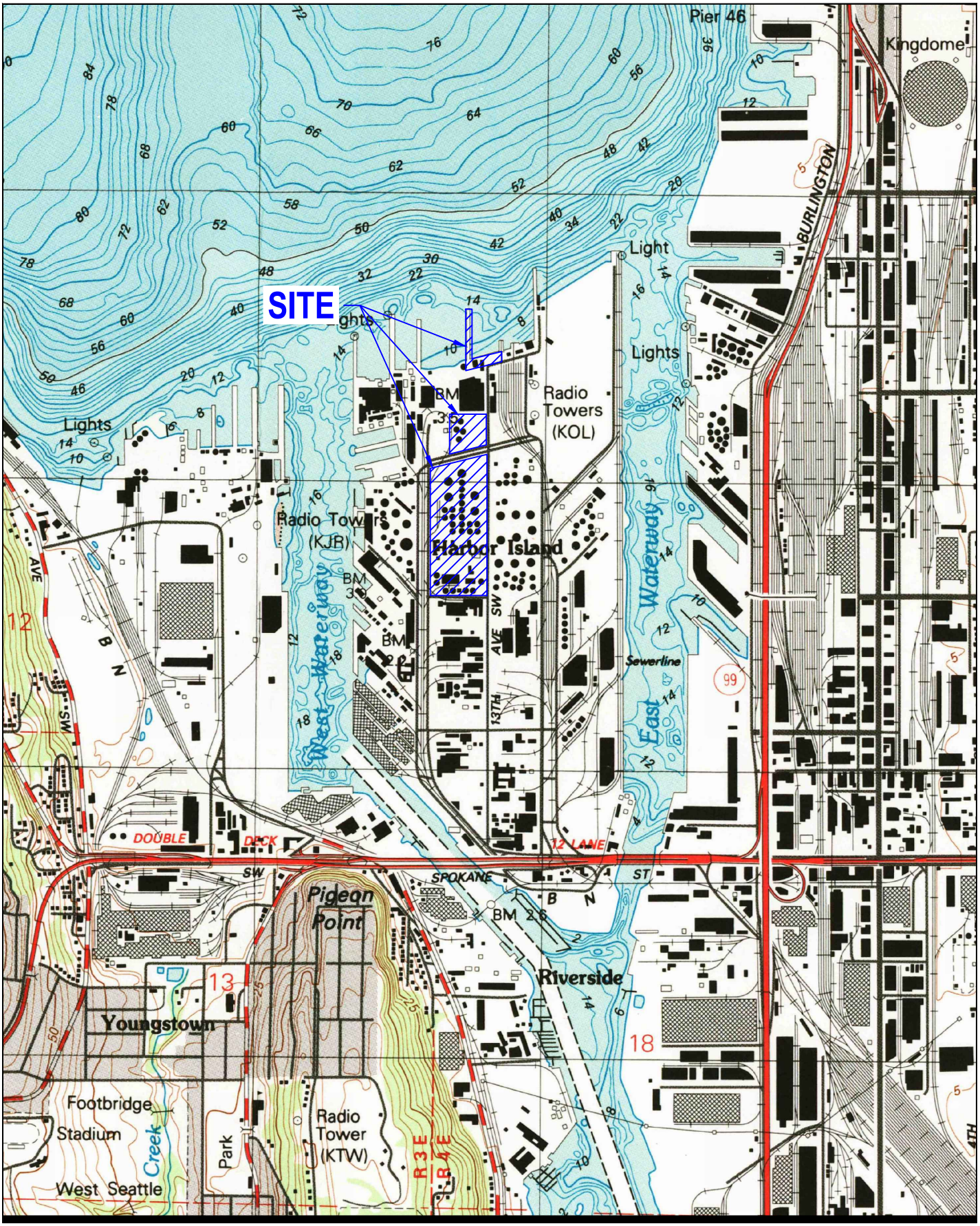
Table 7

Carcinogenic PAHs in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	PAHs							
		Benzo(a)-anthracene --	Benzo(a)-pyrene --	Benzo(b)-fluoranthene --	Benzo(k)-fluoranthene --	Chrysene --	Dibenz(a,h)-anthracene --	Indeno(1,2,3-cd)pyrene --	cPAH TEQ 0.000031
Site-Specific Cleanup Level*		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
MW-309	05/20/15	< 0.0014	< 0.0011	< 0.0013	< 0.0014	< 0.0016	< 0.0012	< 0.0013	< 0.0016
MW-310	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033	< 0.000050
MW-310	05/21/15	< 0.0013	< 0.0010	< 0.0012	< 0.0013	< 0.0015	< 0.0012	< 0.0013	< 0.0015
MW-311	11/05/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033	< 0.000050
MW-312	11/05/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033	< 0.000050
TX-03A	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033	< 0.000050
TX-03A	05/21/15	< 0.0014	< 0.0010	< 0.0013	< 0.0013	< 0.0016	< 0.0012	< 0.0013	< 0.0016

Notes:
= Indicates data collected during this progress report period
PAHs = polycyclic aromatic hydrocarbons
cPAHs = carcinogenic polycyclic aromatic hydrocarbons
*** =** Cleanup levels per the Cleanup Action Plan (Ecology, 1998)
-- = There are not established individual cleanup levels for polycyclic aromatic hydrocarbons (PAHs). The carcinogenic PAHs total toxic equivalent concentration is calculated and compare to the established cleanup level
mg/L = milligrams per liter
< = not detected at or above the indicated limit. Beginning June 12, 2012, limits shown are laboratory Method Detection Limits (MDLs). Prior to June 12, 2012, limits shown are laboratory Reporting Limits (RLs).
J = Result is less than the reporting limit, but greater than or equal to the method detection limit, and the concentration is an approximate value.

Figures



0 750 1500 ft

N

GHD

SHELL HARBOR ISLAND TERMINAL
2555 13th AVENUE SW
SEATTLE, WASHINGTON

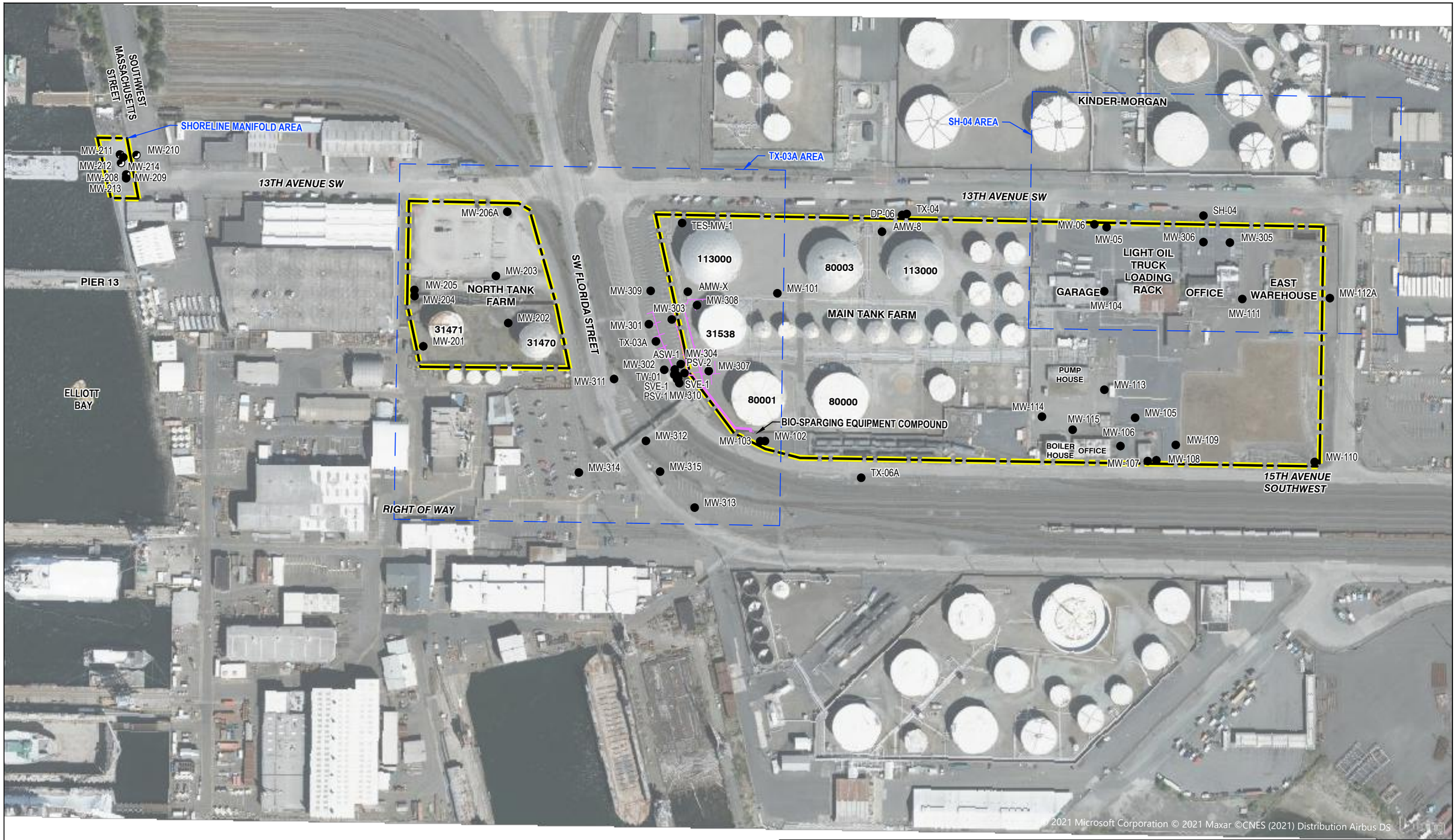
Project No. **11218519**
Date **February 2025**

SITE LOCATION MAP

FIGURE 1

Filename: N:\US\Santa Rosa\Projects\561\11218519\Digital_Design\ACAD 2020\Figures\RPT007\11218519-GHD-00-00-RPT-EN-D101_DE-007.dwg
Plot Date: 08 February 2024 10:21 AM

Data Source: USGS Quad Map Seattle South, WA 1983.



LEGEND

- SHELL PROPERTY LINE
- MW-214 ● MONITORING WELL LOCATION
- MW-210 ◐ PRODUCT RECOVERY WELL LOCATION
- BIO-SPARGING LINE

0 100 200 ft

N

GHD

SHELL HARBOR ISLAND TERMINAL
2555 13th AVENUE SW
SEATTLE, WASHINGTON

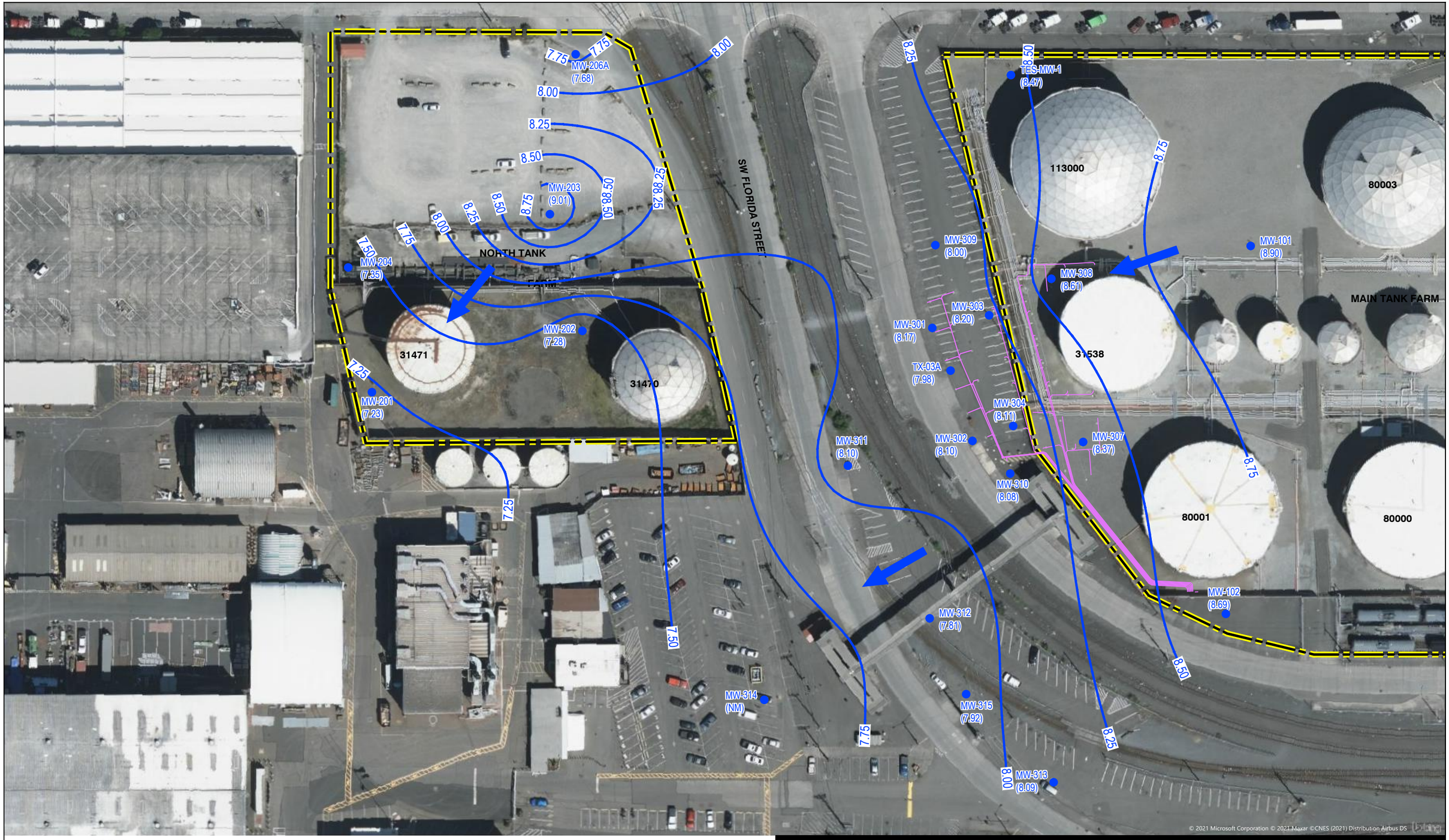
SITE PLAN

Project No. **11218519**
Date **February 2025**

FIGURE 2

Filename: N:\US\Santa Rosa\Projects\561\11218519\Digital_Design\ACAD 2020\Figures\RPT007\11218519-GHD-00-00-RPT-EN-D102_DE-007.dwg
Plot Date: 08 February 2024 10:26 AM

Data Source: AECOM Site Map dated 2/3/2020.



LEGEND

- SHELL PROPERTY LINE
- MW-214 — MONITORING WELL LOCATION
- BIO-SPARGING LINE
- NM = NOT MEASURED
- (5.69) — GROUNDWATER ELEVATION
- 6.65 — GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

0 40 80 ft

N

GHD

SHELL HARBOR ISLAND TERMINAL 2555
13th AVENUE SW
SEATTLE, WASHINGTON

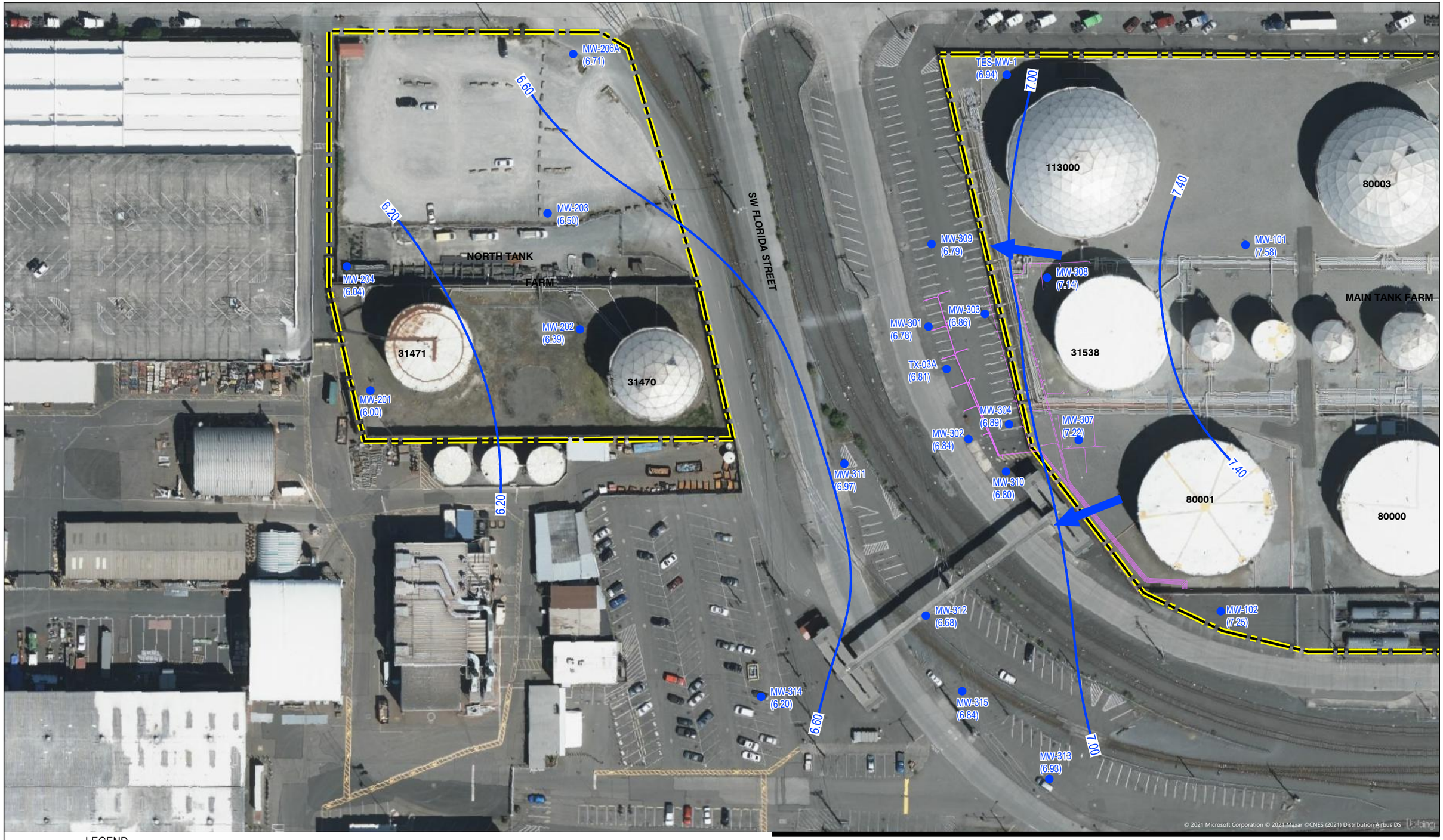
TX-03A AREA GROUNDWATER SURFACE CONTOUR MAP - March 11, 2024

Project No. **11218519**
Date **July 2024**

FIGURE 3

Filename: N:\US\Santa Rosa\Projects\561\11218519\Digital_Design\ACAD 2020\Figures\RPT-2024Q1\11218519-GHD-00-00-RPT-EN-D102_WA-2024Q1.dwg
Plot Date: 12 July 2024 11:31 AM

Data Source: AECOM Site Map dated 2/3/2020.



LEGEND

- SHELL PROPERTY LINE
- MW-214 MONITORING WELL LOCATION
- MW-210 PRODUCT RECOVERY WELL LOCATION
- BIO-SPARGING LINE
- (8.66) GROUNDWATER ELEVATION
- 6.35 GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTE: WELLS MW-311, MW-314, AND TX-03A WERE GAUGED ON 6/18/24 OR 6/19/24 AND WERE NOT USED IN CONTOURING.

0 40 80 ft

N

GHD

SHELL HARBOR ISLAND TERMINAL
2555 13th AVENUE SW
SEATTLE, WASHINGTON

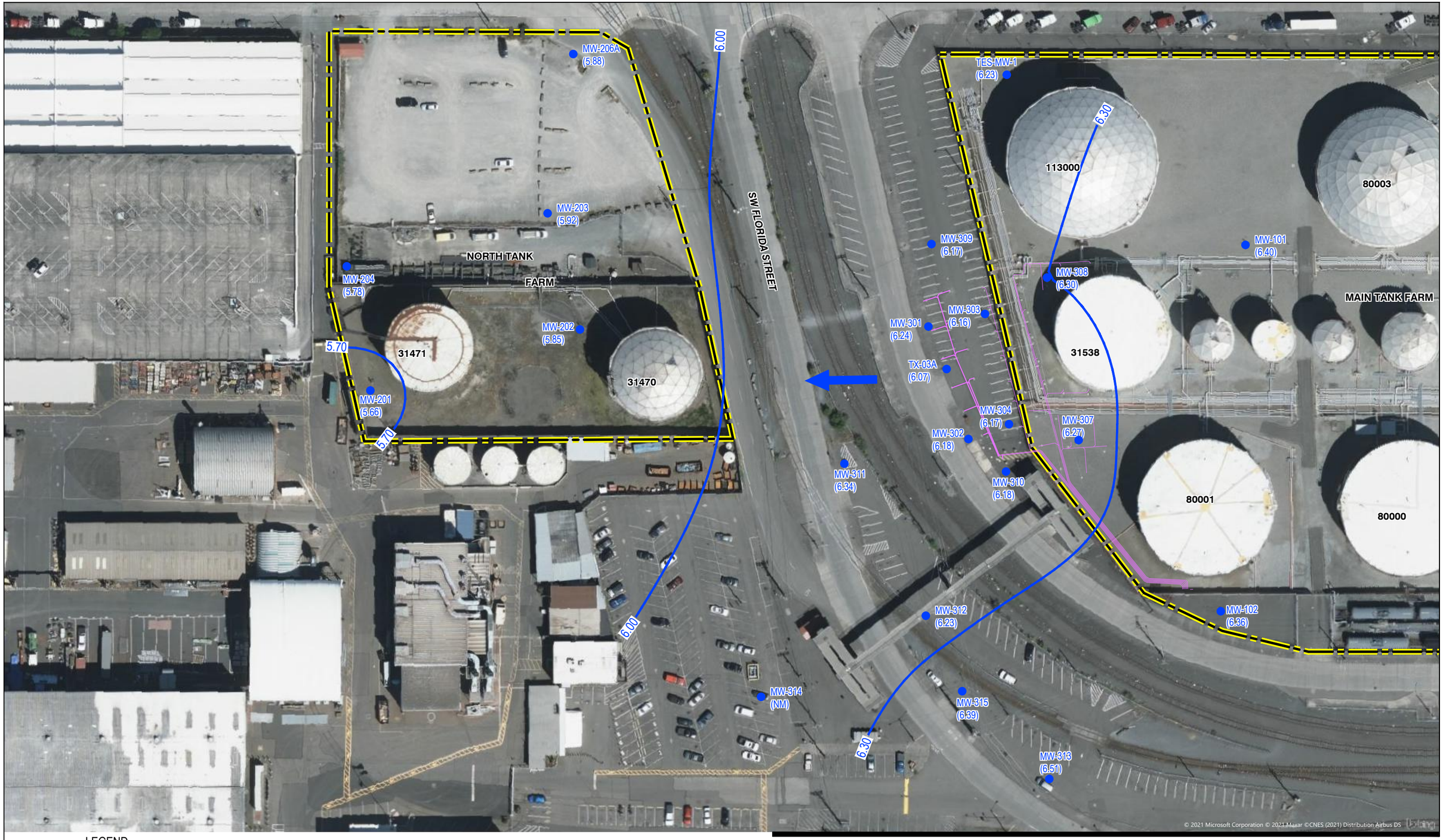
TX-03A AREA
GROUNDWATER SURFACE CONTOUR MAP - JUNE 17, 2024

Project No. **11218519**
Date **February 2025**

FIGURE 4

Filename: N:\US\Santa Rosa\Projects\561\11218519\Digital_Design\ACAD 2020\Figures\RPT-2024Q2\11218519-GHD-00-00-RPT-EN-D103_WA-2024Q2.dwg
Plot Date: 14 February 2025 1:09 AM

Data Source: AECOM Site Map dated 2/3/2020.



LEGEND

- SHELL PROPERTY LINE
- MW-214 ● MONITORING WELL LOCATION
- MW-210 ◐ PRODUCT RECOVERY WELL LOCATION
- BIO-SPARGING LINE
- (8.66) GROUNDWATER ELEVATION
- 6.35 GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- (NM) NOT MEASURED

NOTE: WELL TX-03A WAS GAUGED ON 9/19/24 AND WAS NOT USED IN CONTOURING. WELL MW-311 IS ALSO NOT USED IN CONTOURING.

0 40 80 ft

N

GHD

SHELL HARBOR ISLAND TERMINAL
2555 13th AVENUE SW
SEATTLE, WASHINGTON

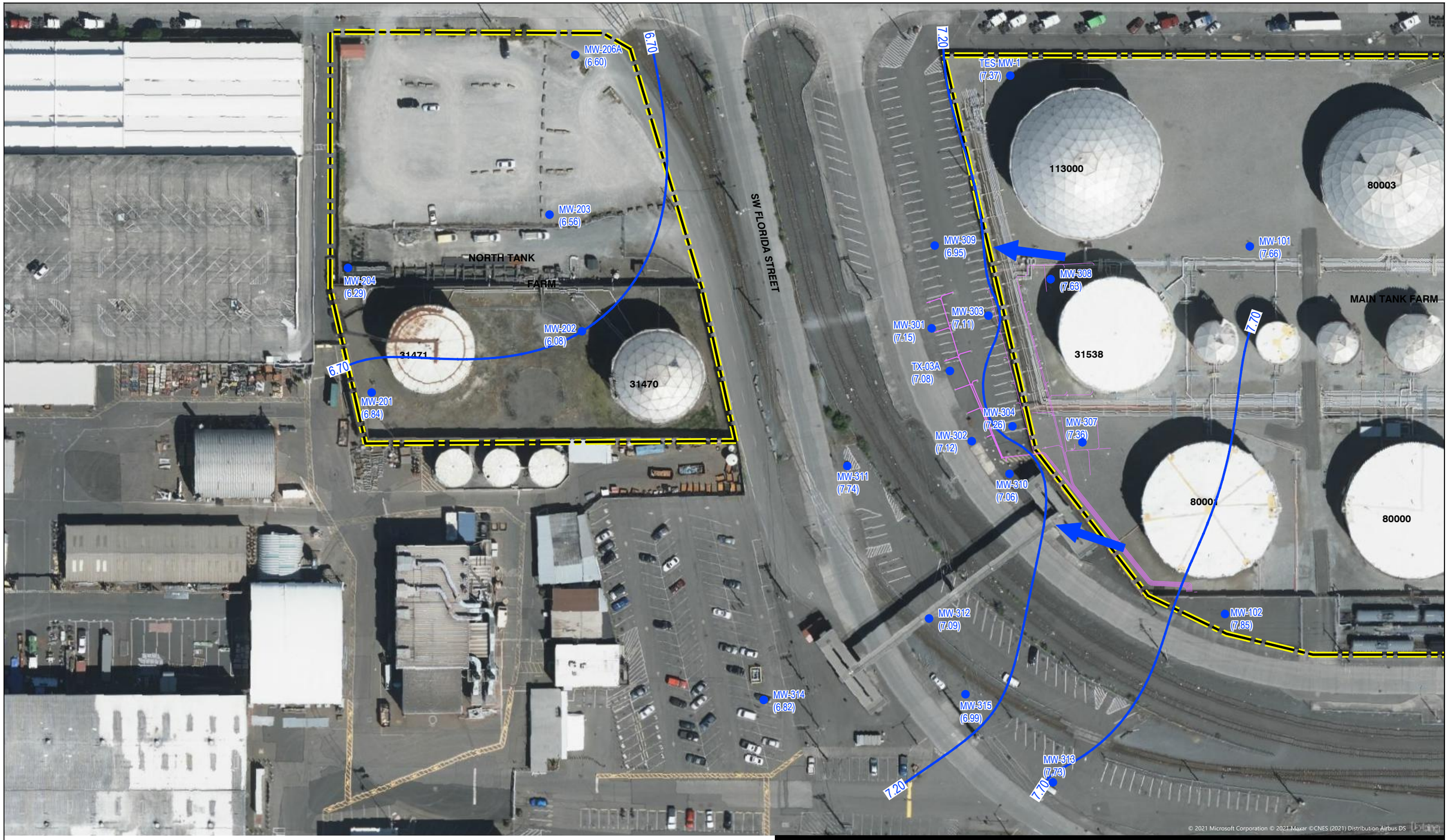
TX-03A AREA GROUNDWATER SURFACE CONTOUR MAP - SEPT. 18, 2024

Project No. **11218519**
Date **February 2025**

FIGURE 5

Data Source: AECOM Site Map dated 2/3/2020.

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\11218519\01 WIP\Env\Figures\RPT008\11218519-GHD-00-00-RPT-EN-D101_WA-008.dwg
Plot Date: 13 February 2025 4:14 PM



LEGEND

- SHELL PROPERTY LINE
- MW-214 MONITORING WELL LOCATION
- MW-210 PRODUCT RECOVERY WELL LOCATION
- BIO-SPARGING LINE
- (8.66) GROUNDWATER ELEVATION
- 6.35 GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTE: WELLS MW-314 AND TX-03A WERE GAUGED ON 12/17/24 AND WERE NOT USED IN CONTOURING. WELLS MW-202, MW-311, AND MW-312 ARE ALSO NOT USED IN CONTOURING.

0 40 80 ft

N

GHD

SHELL HARBOR ISLAND TERMINAL
2555 13th AVENUE SW
SEATTLE, WASHINGTON

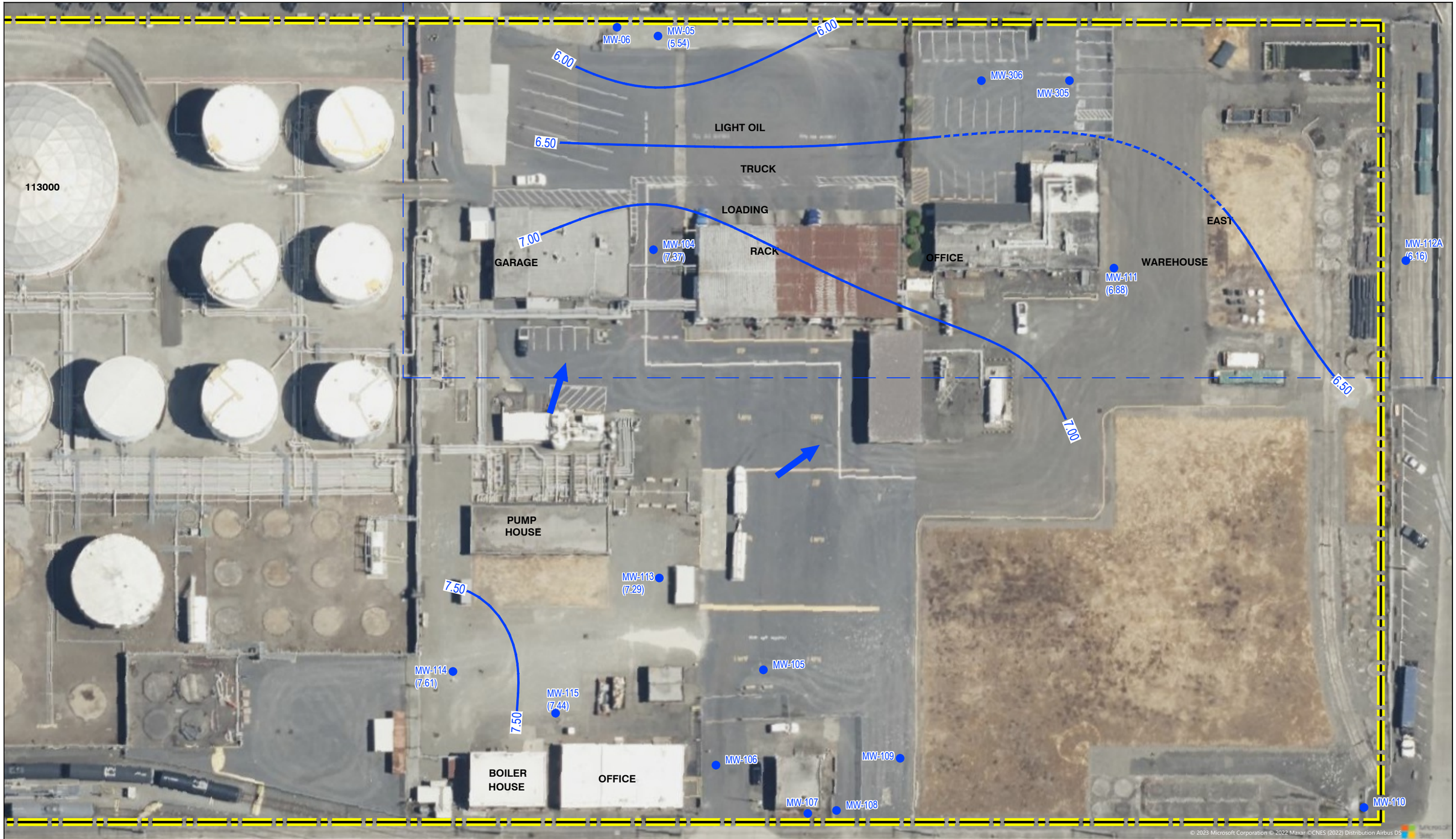
TX-03A AREA
GROUNDWATER SURFACE CONTOUR MAP - DECEMBER 16, 2024

Project No. **11218519**
Date **February 2025**

FIGURE 6

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\11218519\01 WIP\Env\Figures\RPT008\11218519-GHD-00-00-RPT-EN-D102_WA-008.dwg
Plot Date: 13 February 2025 4:14 PM

Data Source: AECOM Site Map dated 2/3/2020.



LEGEND

- SHELL PROPERTY LINE
- MW-214 ● MONITORING WELL LOCATION
- (7.59) GROUNDWATER ELEVATION
- 7.55 GROUNDWATER ELEVATION CONTOUR, DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION

0 30 60 ft

N

GHD

SHELL HARBOR ISLAND TERMINAL
2555 13th AVENUE SW
SEATTLE, WASHINGTON

PUMP HOUSE AREA GROUNDWATER SURFACE CONTOUR MAP - JUNE 17, 2024

Project No. **11218519**
Date **February 2025**

FIGURE 7

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\11218519\01 WIP\Env\Figures\RPT008\11218519-GHD-00-00-RPT-EN-D103_WA-008.dwg
Plot Date: 10 February 2025 8:44 AM



LEGEND

- SHELL PROPERTY LINE
- MW-214 ● MONITORING WELL LOCATION
- (7.59) GROUNDWATER ELEVATION
- 7.55 GROUNDWATER ELEVATION CONTOUR, DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION

0 30 60 ft

N

GHD

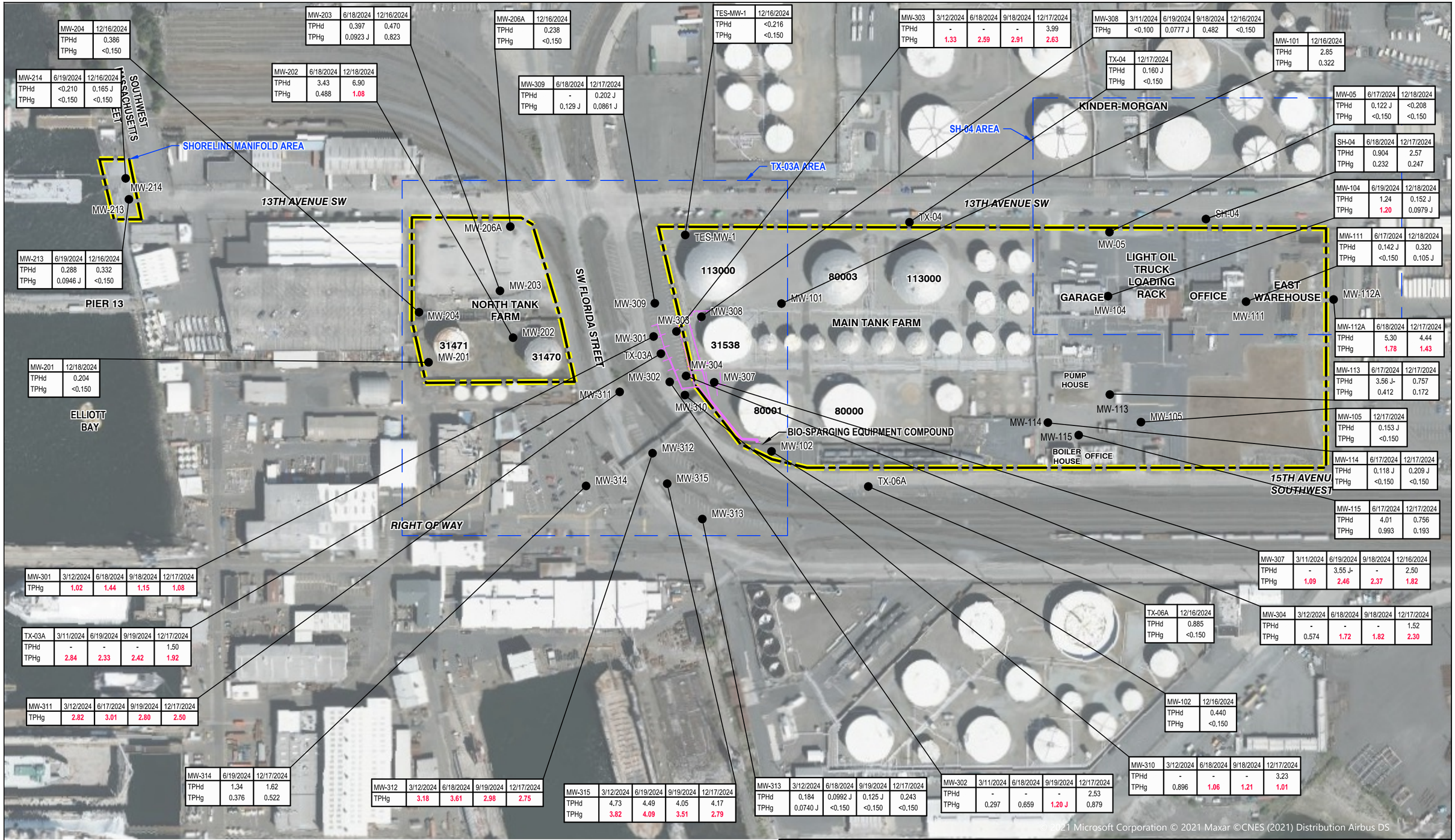
SHELL HARBOR ISLAND TERMINAL
2555 13th AVENUE SW
SEATTLE, WASHINGTON

PUMP HOUSE AREA GROUNDWATER SURFACE CONTOUR MAP - DECEMBER 16, 2024

Project No. **11218519**
Date **February 2025**

FIGURE 8

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\11218519\01 WIP\Env\Figures\RPT008\11218519-GHD-00-00-RPT-EN-D104_WA-008.dwg
Plot Date: 10 February 2025 8:47 AM



MW-204	12/16/2024
TPHd	0.386
TPHg	<0.150

MW-214	6/19/2024	12/16/2024
TPHd	<0.210	0.165 J
TPHg	<0.150	<0.150

MW-213	6/19/2024	12/16/2024
TPHd	0.288	0.332
TPHg	0.0946 J	<0.150

MW-201	12/18/2024
TPHd	0.204
TPHg	<0.150

MW-203	6/18/2024	12/16/2024
TPHd	0.397	0.470
TPHg	0.0923 J	0.823

MW-202	6/18/2024	12/18/2024
TPHd	3.43	6.90
TPHg	0.488	1.08

MW-206A	12/16/2024
TPHd	0.238
TPHg	<0.150

MW-309	6/18/2024	12/17/2024
TPHd	-	0.202 J
TPHg	0.129 J	0.0861 J

TES-MW-1	12/16/2024
TPHd	<0.216
TPHg	<0.150

MW-303	3/12/2024	6/18/2024	9/18/2024	12/17/2024
TPHd	-	-	-	3.99
TPHg	1.33	2.59	2.91	2.63

MW-308	3/11/2024	6/19/2024	9/18/2024	12/16/2024
TPHg	<0.100	0.0777 J	0.482	<0.150

TX-04	12/17/2024
TPHd	0.160 J
TPHg	<0.150

MW-101	12/16/2024
TPHd	2.85
TPHg	0.322

MW-05	6/17/2024	12/18/2024
TPHd	0.122 J	<0.208
TPHg	<0.150	<0.150

SH-04	6/18/2024	12/17/2024
TPHd	0.904	2.57
TPHg	0.232	0.247

MW-104	6/19/2024	12/18/2024
TPHd	1.24	0.152 J
TPHg	1.20	0.0979 J

MW-111	6/17/2024	12/18/2024
TPHd	0.142 J	0.320
TPHg	<0.150	0.105 J

MW-112A	6/18/2024	12/17/2024
TPHd	5.30	4.44
TPHg	1.78	1.43

MW-113	6/17/2024	12/17/2024
TPHd	3.56 J-	0.757
TPHg	0.412	0.172

MW-105	12/17/2024
TPHd	0.153 J
TPHg	<0.150

MW-114	6/17/2024	12/17/2024
TPHd	0.118 J	0.209 J
TPHg	<0.150	<0.150

MW-115	6/17/2024	12/17/2024
TPHd	4.01	0.756
TPHg	0.993	0.193

MW-307	3/11/2024	6/19/2024	9/18/2024	12/16/2024
TPHd	-	3.55 J-	-	2.50
TPHg	1.09	2.46	2.37	1.82

MW-304	3/12/2024	6/18/2024	9/18/2024	12/17/2024
TPHd	-	-	-	1.52
TPHg	0.574	1.72	1.82	2.30

TX-06A	12/16/2024
TPHd	0.885
TPHg	<0.150

MW-102	12/16/2024
TPHd	0.440
TPHg	<0.150

MW-310	3/12/2024	6/18/2024	9/18/2024	12/17/2024
TPHd	-	-	-	3.23
TPHg	0.896	1.06	1.21	1.01

MW-301	3/12/2024	6/18/2024	9/18/2024	12/17/2024
TPHg	1.02	1.44	1.15	1.08

TX-03A	3/11/2024	6/19/2024	9/19/2024	12/17/2024
TPHd	-	-	-	1.50
TPHg	2.84	2.33	2.42	1.92

MW-311	3/12/2024	6/17/2024	9/19/2024	12/17/2024
TPHg	2.82	3.01	2.80	2.50

MW-314	6/19/2024	12/17/2024
TPHd	1.34	1.62
TPHg	0.376	0.522

MW-312	3/12/2024	6/18/2024	9/19/2024	12/17/2024
TPHg	3.18	3.61	2.98	2.75

MW-315	3/12/2024	6/19/2024	9/19/2024	12/17/2024
TPHd	4.73	4.49	4.05	4.17
TPHg	3.82	4.09	3.51	2.79

MW-313	3/12/2024	6/18/2024	9/19/2024	12/17/2024
TPHd	0.184	0.0992 J	0.125 J	0.243
TPHg	0.0740 J	<0.150	<0.150	<0.150

MW-302	3/11/2024	6/18/2024	9/19/2024	12/17/2024
TPHd	-	-	-	2.53
TPHg	0.297	0.659	1.20 J	0.879

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LEGEND

- SHELL PROPERTY LINE
- MW-214 ● MONITORING WELL LOCATION
- BIO-SPARGING LINE

MW-307	3/28/2022	6/29/2022
TPHd	-	4.02
TPHg	3.69	2.87

SAMPLE LOCATION
SAMPLE DATE
RESULT (mg/L)
PARAMETER

NOTES:

- RESULTS ARE IN MILLIGRAMS PER LITER (mg/L)
- RED INDICATES DETECTED CONCENTRATIONS GREATER THAN CLEANUP LEVEL
- TPHg CLEANUP LEVEL = 1 mg/L
- TPHd CLEANUP LEVEL = 10 mg/L
- < NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT
- -- NOT ANALYZED
- J REPORTED VALUE IS ESTIMATED

0 100 200 ft

N

GHD

SHELL HARBOR ISLAND TERMINAL
2555 13th AVENUE SW
SEATTLE, WASHINGTON

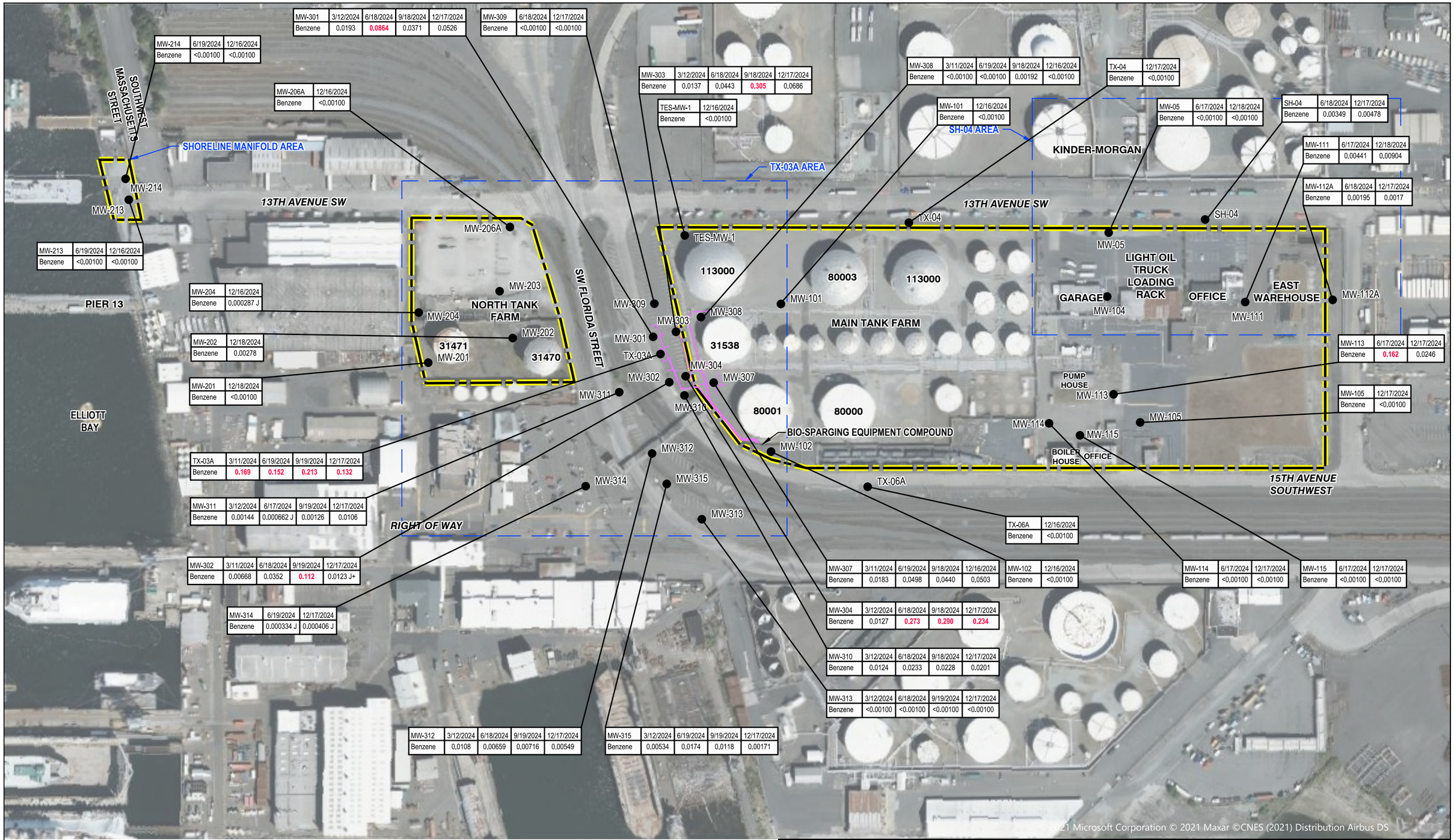
GASOLINE AND DIESEL CONCENTRATIONS - 2024

Project No. **11218519**
Date **February 2025**

FIGURE 9

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\11218519\01 WIP\Env\Figures\RPT008\11218519-GHD-00-00-RPT-EN-D105_WA-008.dwg
Plot Date: 11 February 2025 7:46 AM

Data Source: AECOM Site Map dated 2/3/2020.



LEGEND

SHELL PROPERTY LINE

MW-214 ● MONITORING WELL LOCATION

BIO-SPARGING LINE

MW-307	3/28/2022	6/29/2022
Benzene	0.0982	0.149

SAMPLE LOCATION; SAMPLE DATE; RESULT; PARAMETER

NOTES:

- RESULTS ARE IN MILLIGRAMS PER LITER (mg/L)
- RED INDICATES DETECTED CONCENTRATIONS GREATER THAN CLEANUP LEVEL
- BENZENE CLEANUP LEVEL = 0.071 mg/L
- < NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT
- -- NOT ANALYZED
- J REPORTED VALUE IS ESTIMATED

0 100 200 ft

N

GHD

SHELL HARBOR ISLAND TERMINAL
2555 13th AVENUE SW
SEATTLE, WASHINGTON

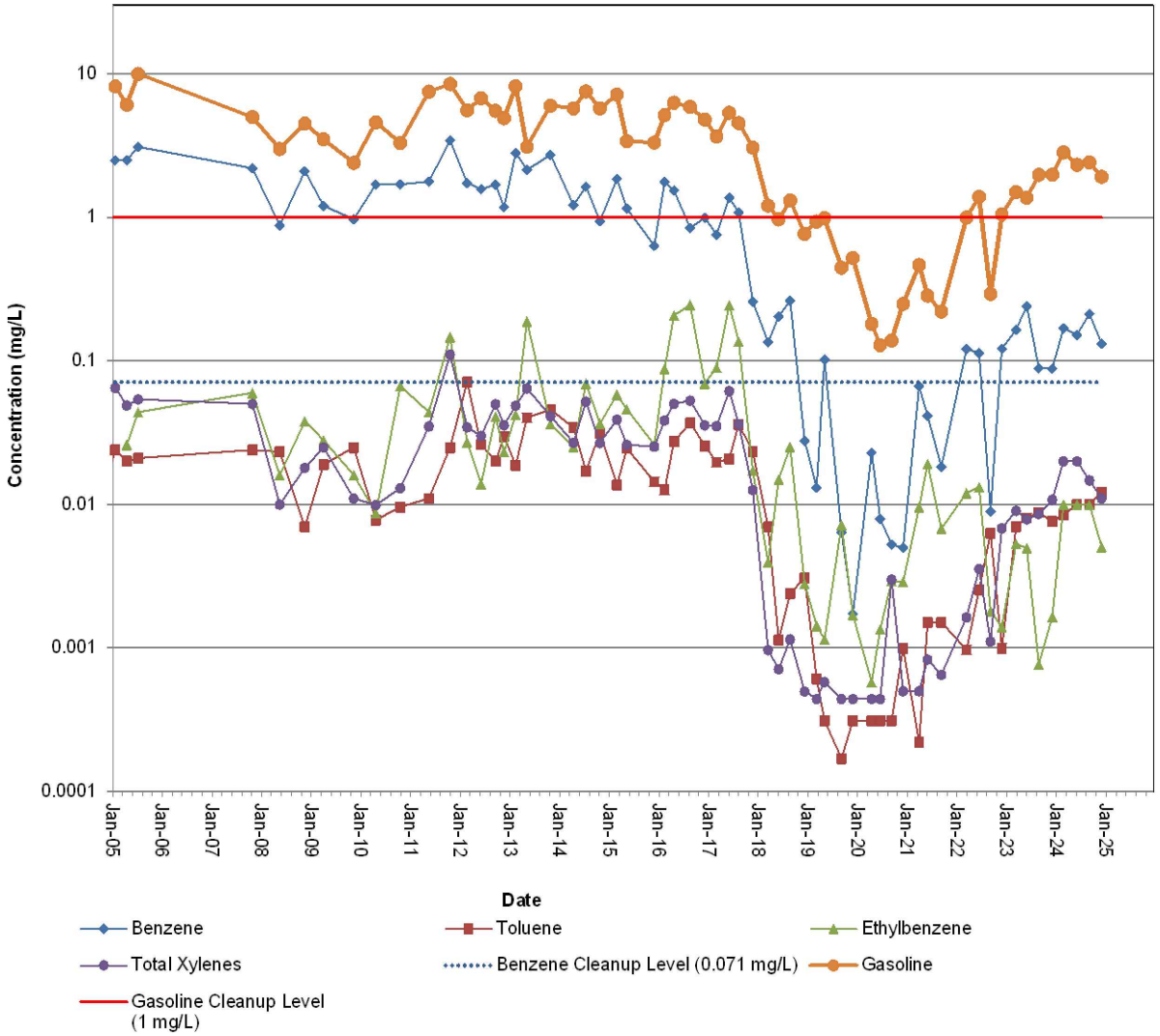
BENZENE CONCENTRATIONS - 2024

Project No. 11218519
Date February 2025

FIGURE 10

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\11218519\01 WIP\Env\Figures\RPT008\11218519-GHD-00-00-RPT-EN-D106_WA-008.dwg
Plot Date: 10 February 2025 2:28 PM

Data Source: AECOM Site Map dated 2/3/2020.



SHELL HARBOR ISLAND TERMINAL
2555 13th AVENUE SW
SEATTLE, WASHINGTON

Project No. **11218519**
Date **February 2025**

TX-03A BTEX AND GASOLINE CONCENTRATIONS

FIGURE 11

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\11218519\01 WIP\Env\Figures\RPT008\11218519-GHD-00-00-RPT-EN-D107_WA-008.dwg
Plot Date: 10 February 2025 8:50 AM

Appendices

Appendix A

Field Sampling Data Sheets

Monitoring Well Gauging Field Log - Shoreline

Project No: 11218519
SAP: 357032
PlaNet ID: MIGUS357032
Location: 2555 13th Avenue SW Seattle (Harbor Island Terminal)

Personnel: Nicholas Adamowski

Date: 16/01/2024

Well ID	Time Gauged	Depth to Product	Depth to Water	Comments
MW-208	830	—	4.02	
NW-210	840	5.27	5.88	Absorbent sock replaced
MW-211	805	—	4.61	
MW-212	815	—	5.15	Absorbent not saturated no product observed



Monitoring Well Gauging Field Log - Shoreline

Project No: 11218519
SAP: 357032
PlaNet ID: MIGUS357032
Location: 2555 13th Avenue SW Seattle (Harbor Island Terminal)

Personnel: Calli Gray / Abigail Palmgren

Date: 2 / 22 / 24

Well ID	Time Gauged	Depth to Product	Depth to Water	Comments
MW-208 [1]	750		4.15	
NW-210 [4]	821	5.22	5.52	sock saturated, replaced
MW-211 [2]	758		4.36	
MW-212 [3]	806		4.31	sock unsaturated, did not replace



WELL GAUGING DATA

Project # 240311-301 Date 03/11/24 Client GHD

Site Seattle Harbor Island Terminal

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-201	0837	2	-	-	-	-	12.95	21.31		
MW-202	0840	2	-	-	-	-	12.58	21.65		
MW-203	0856	2	-	-	-	-	4.98	14.00		
MW-204	0832	2	-	-	-	-	9.92	17.73		
MW-206A	0847	2	-	-	-	-	8.22	16.47		
MW-101	1012	2	-	-	-	-	9.31	20.02		
MW-102	0938	2	-	-	-	-	6.91	17.43		
MW-301	0918	2	-	-	-	-	4.39	14.41		
MW-302	1145	2	-	-	-	-	4.75	14.93		*
MW-303	0920	2	-	-	-	-	4.44	14.49		
MW-304	0931	2	-	-	-	-	4.59	14.46		
MW-307	1019	2	-	-	-	-	7.25	17.19		
MW-308	1016	2	-	-	-	-	6.98	17.18		
MW-309	0924	2	-	-	-	-	4.67	14.61		
MW-310	0933	2	-	-	-	-	5.43	14.47		
MW-311	~~0900~~ 0911 MH	2	-	-	-	-	~~6.69~~ 6.81 MH	~~14.98~~ 14.60 MH		
MW-312	0907	2	-	-	-	-	6.50	14.82		

* WELL PARKED OVER DURING INITIAL GAUGING

WELL GAUGING DATA

Project # 240311-301 Date 03/11/24 Client GHD

Site Seattle Harbor Island Terminal

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-313	0904	2	-	-	-	-	5.16	13.28		
MW-314	~~—~~	~~2~~	~~—~~	unable to access	~~—~~	~~—~~	~~—~~	~~14.~~	~~—~~	*
MW-315	0900	2	-	-	-	-	6.69	14.60		
TES-MW-1	1009	4	-	-	-	-	7.68	15.30		
TX-03A	1122	2	-	-	-	-	4.28	14.77		*

* WELL PACKED OVER DURING INITIAL GAUGING

Monitoring Well Gauging Field Log - Shoreline

Date:
Job No:
SAP:
Incident No 300036
Location: 2555 13th Ave SW, Seattle (Harbor Island Terminal)
Personnel:

Well ID	Time Gauged	Depth to Water	Depth to Product	Comments
MW-208	0826	3.72	—	
MW-210	0811	5.28	—	Absorbant sock (REPLACED)
MW-211	0817	3.70	—	
MW-212	0820	4.18	—	Absorbant sock/REPLACED

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240311-J01	Client: GHD
Sampler: JD	Gauging Date: 03/12/24
Well I.D.: MW-301	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.41	Depth to Water (ft.): 4.39
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated (Tubing) New Tubing Other ___

Start Purge Time: 0946 Flow Rate: 200ml/m Pump Depth: 10ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0949	10.07	6.80	0.617	26	3.16	-7.5	600	4.49
0952	10.36	6.77	0.614	23	2.91	-28.2	1200	4.57
0955	10.49	6.72	0.615	24	2.77	-33.5	1800	4.62
0958	10.57	6.69	0.615	24	2.77	-37.0	2400	4.69
1001	10.60	6.71	0.615	25	2.72	-40.9	3000	4.78

Did well dewater? Yes (No) Amount actually evacuated: 3000ml

Sampling Time: 1002 Sampling Date: 03/12/24

Sample I.D.: MW-301 Laboratory: TA Tacoma

Analyzed for: TPH-G BTEX MTBE TPH-D Other: see COC

Equipment Blank I.D.: @ Time Duplicate I.D.: —

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240311-501	Client: GHD
Sampler: JD	Gauging Date: 03/11/24
Well I.D.: MW-302	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.93	Depth to Water (ft.): 4.75
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 1146 Flow Rate: 200 ml/m Pump Depth: 10 ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1149	11.51	6.99	0.606	24	2.88	-21.3	600	4.82
1152	11.58	6.93	0.602	19	2.80	-24.2	1200	4.88
1155	11.65	6.91	0.597	17	2.73	-27.6	1800	4.91
1158	11.71	6.88	0.594	17	2.71	-29.0	2400	4.94
1201	11.67	6.86	0.593	16	2.68	-31.3	3000	4.95

Did well dewater? Yes (No) Amount actually evacuated: 3000 ml

Sampling Time: 1202 Sampling Date: 03/11/24

Sample I.D.: MW-302 Laboratory: TA Tacoma

Analyzed for: TPH-G BTEX MTBE TPH-D (Other: See COC)

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240311-301	Client: GHD
Sampler: JO	Gauging Date: 03/12/24
Well I.D.: MW-303	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.49	Depth to Water (ft.): 4.44
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 0921 Flow Rate: 200ml/m Pump Depth: 10ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0924	9.91	6.81	0.239	33	3.07	21.4	600	4.58
0927	9.73	6.76	0.231	26	3.19	6.4	1200	4.66
0930	9.65	6.75	0.229	24	3.32	-3.0	1800	4.71
0933	9.58	6.72	0.228	24	3.37	-7.5	2400	4.74
0936	9.54	6.70	0.225	23	3.40	-9.2	3000	4.78

Did well dewater? Yes (No) Amount actually evacuated: 3000ml

Sampling Time: 0937 Sampling Date: 03/12/24

Sample I.D.: MW-303 Laboratory: TA Tacoma

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time ___ Duplicate I.D.: —

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240311-J01	Client: GHD
Sampler: JD	Gauging Date: 03/12/24
Well I.D.: MW-304	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 19.46	Depth to Water (ft.): 4.59
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: 1036 Flow Rate: 200ml/m Pump Depth: 10ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1039	10.61	6.97	0.736	33	3.11	-45.8	600	4.67
1042	10.45	6.90	0.741	31	2.84	-51.3	1200	4.71
1045	10.38	6.86	0.743	28	2.71	-56.0	1800	4.71
1048	10.32	6.82	0.744	30	2.66	-61.3	2400	4.71
1051	10.27	6.84	0.748	29	2.65	-58.2	3000	4.71

Did well dewater? Yes (No) Amount actually evacuated: 3600ml

Sampling Time: 1052 Sampling Date: 03/12/24

Sample I.D.: MW-304 Laboratory: TA Tacoma

Analyzed for: TPH-G BTEX MTBE TPH-D (Other) See COC

Equipment Blank I.D.: @ Time Duplicate I.D.: —

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240311-J01	Client: GHD
Sampler: JO	Gauging Date: 03/11/24
Well I.D.: MW-307	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 17.19	Depth to Water (ft.): 7.25
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump

Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1022 Flow Rate: 200 ml/m Pump Depth: 14ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1025	10.71	7.06	0.511	29	3.68	-4.2	600	7.58
1028	10.79	7.14	0.506	26	3.22	-18.0	1200	7.79
1031	10.83	7.13	0.507	24	3.13	-20.6	1800	7.95
1034	10.83	7.07	0.505	22	3.05	-24.3	2400	8.04
1037	10.85	7.10	0.504	23	2.98	-19.8	3000	8.10

Did well dewater? Yes (No) Amount actually evacuated: 3000ml

Sampling Time: 1038 Sampling Date: 03/11/24

Sample I.D.: MW-307 Laboratory: TA Tacoma

Analyzed for: TPH-G BTEX MTBE TPH-D (Other:) See COC

Equipment Blank I.D.: @ Time Duplicate I.D.: —

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240311-501	Client: GHD
Sampler: SD	Gauging Date: 03/11/24
Well I.D.: MW-308	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 17.18	Depth to Water (ft.): 6.98
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 1049 Flow Rate: 200ml/m Pump Depth: 14ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1051	9.70	7.25	0.658	13	3.29	18.0	600	7.11
1054	9.77	7.22	0.654	10	3.08	23.5	1200	7.26
1057	9.81	7.19	0.653	11	2.99	21.0	1800	7.33
1100	9.88	7.14	0.652	10	2.93	23.6	2400	7.38
1103	9.84	7.16	0.650	10	2.88	27.0	3000	7.44

Did well dewater? Yes (No) Amount actually evacuated: 3000ml

Sampling Time: 1104 Sampling Date: 03/11/24

Sample I.D.: MW-308 Laboratory: TA Tacoma

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: — @ Time Duplicate I.D.: —

LOW FLOW WELL MONITORING DATA SHEET

Project #: ~~240312-J~~ JD 240311-501	Client: GHD
Sampler: JP	Gauging Date: 03/12/24
Well I.D.: MW-310	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.47	Depth to Water (ft.): 5.43
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 1011 Flow Rate: 200ml/m Pump Depth: 10.5ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1014	11.39	7.16	1.045	24	2.64	-57.2	600	5.52
1017	11.16	7.07	1.017	21	2.68	-58.9	1200	6.52
1020	10.99	7.01	1.009	21	2.71	-63.9	1800	5.52
1023	10.93	6.98	1.001	20	2.73	-67.0	2400	5.52
1026	10.91	6.95	0.998	21	2.70	-68.5	3000	5.52

Did well dewater? Yes (No) Amount actually evacuated: 3000ml

Sampling Time: 1027 Sampling Date: 03/12/24

Sample I.D.: MW-310 Laboratory: TA Tacoma

Analyzed for: TPH-G BTEX MTBE TPH-D Other: see COC

Equipment Blank I.D.: @ Time Duplicate I.D.: —

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240311-301	Client: GHD
Sampler: JD	Gauging Date: 03/12/24
Well I.D.: MW-311	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.60	Depth to Water (ft.): 6.81
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0853 Flow Rate: 200 ml/m Pump Depth: 11ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0856	10.96	6.67	0.725 ~~0.730~~	8	2.96	-21.3	600	6.95
0859	11.09	6.62	0.719	7	2.84	-25.1	1200	7.07
0902	11.17	6.56	0.712	5	2.75	-29.9	1800	7.12
0905	11.28	6.54	0.710	4	2.71	-33.4	2400	7.12
0908	11.20	6.51	0.707	5	2.68	-37.9	3000	7.12

Did well dewater? Yes (No) Amount actually evacuated: 3000 mL

Sampling Time: 0909 Sampling Date: 03/12/24

Sample I.D.: MW-311 Laboratory: TA Tacoma

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.: —

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240311-J01	Client: GHD
Sampler: JD	Gauging Date: 03/12/24
Well I.D.: MW-312	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.82	Depth to Water (ft.): 6.50
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0826 Flow Rate: 200ml/m Pump Depth: WET

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0829	9.35	6.98	0.721	25	3.29	24.0	600	6.50
0832	9.48	6.94	0.714	19	3.04	21.5	1200	6.50
0835	9.55	6.92	0.704	17	3.00	-4.8	1800	6.50
0838	9.58	6.88	0.699	16	2.98	-10.0	2400	6.50
0841	9.63	6.85	0.698	16	2.92	-13.7	3000	6.50

Did well dewater? Yes (No) Amount actually evacuated: 3000ml

Sampling Time: 0842 Sampling Date: 03/12/24

Sample I.D.: MW-312 Laboratory: TA Tacoma

Analyzed for: TPH-G BTEX MTBE TPH-D (Other: see COC)

Equipment Blank I.D.: @ Time ___ Duplicate I.D.: ___

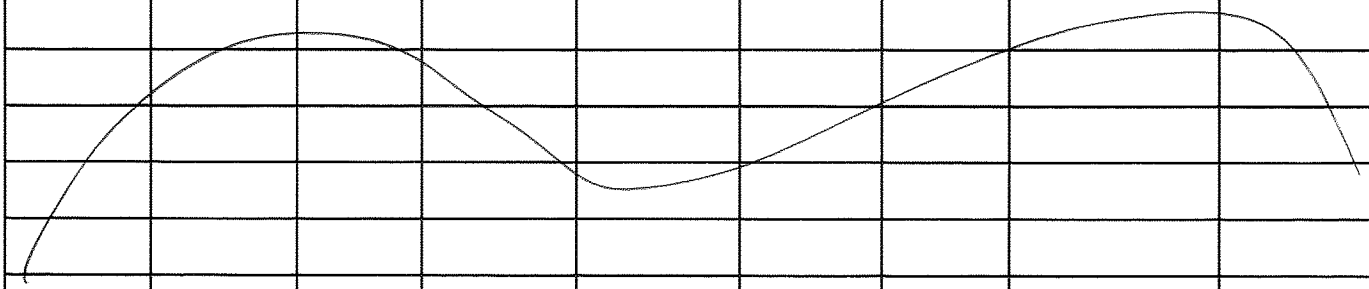
LOW FLOW WELL MONITORING DATA SHEET

Project #: ~~230250~~ 240311-301	Client: GHD
Sampler: JP	Gauging Date: 03/12/24
Well I.D.: MW-313	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 13.28	Depth to Water (ft.): 5.16
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated (Tubing) New Tubing Other ___

Start Purge Time: 0754 Flow Rate: 200ml/m Pump Depth: 10 ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
0802	10.04	7.15	0.610	70	3.85	42.3	600	5.29
0805	10.11	7.12	0.604	59	3.73	36.7	1200	5.29
0808	10.22	7.09	0.602	54	3.65	31.2	1800	5.29
0811	10.38	7.04	0.599	51	3.63	28.0	2400	5.29
0815	10.34	7.03	0.600	50	3.59	24.3	3000	5.29



Did well dewater? Yes (No)	Amount actually evacuated: 3000ml
Sampling Time: 0816	Sampling Date: 03/12/24
Sample I.D.: MW-313	Laboratory: TA Tacoma
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: see coc
Equipment Blank I.D.: @ Time —	Duplicate I.D.: —

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240311 - JO1	Client: GHD
Sampler: JO	Gauging Date: 03/12/24
Well I.D.: MW-314	Well Diameter (in.): 2 3 4 6 8 ___
Total Well Depth (ft.): —	Depth to Water (ft.): —
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	Flow Cell Type:

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other

Start Purge Time: Flow Rate: Pump Depth:

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
			unable	to access				
		well	was	parked	over			
			03/11/24	& 03/12/24				
			NO	Sample Taken				

Did well dewater? Yes No Amount actually evacuated:

Sampling Time: Sampling Date:

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240311-301	Client: GHD
Sampler: JD	Gauging Date: 03/12/24
Well I.D.: MW-315	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.60	Depth to Water (ft.): 6.69
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0732 Flow Rate: 200 ml/m Pump Depth: 11 ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0735	10.29	7.10	0.649	7	3.19	11.4	600	6.82
0738	10.61	7.03	0.637	4	2.97	-0.2	1200	6.91
0741	10.74	6.99	0.632	3	2.89	-5.9	1800	7.05
0744	10.81	6.97	0.630	3	2.84	-10.4	2400	7.16
0747	~~6.9~~ JD 10.85	6.96	0.630	3	2.82	-13.7	3000	7.21

Did well dewater? Yes (No) Amount actually evacuated: 3000ml

Sampling Time: 0748 Sampling Date: 03/12/24

Sample I.D.: MW-315 Laboratory: TA Tacoma

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.: —

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240311-JD1	Client: GHD
Sampler: JD	Gauging Date: 03/11/24
Well I.D.: TX-03A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.77	Depth to Water (ft.): 4.28
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 1124 Flow Rate: 200ml/m Pump Depth: 10ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1127	11.60	6.85	0.386	10	3.11	12.9	600	4.28
1130	11.69	6.83	0.382	11	2.93	4.6	1200	4.28
1133	11.75	6.80	0.381	9	2.86	-0.9	1800	4.28
1136	11.81	6.77	0.380	8	2.85	-3.0	2400	4.28
1139	11.84	6.76	0.378	8	2.82	-5.8	3000	4.28

Did well dewater? Yes (No) Amount actually evacuated: 3000ml

Sampling Time: 1140 Sampling Date: 03/11/24

Sample I.D.: ~~AMW~~ TX-03A Laboratory: TA Tacoma

Analyzed for: TPH-G BTEX MTBE TPH-D (Other: See COC)

Equipment Blank I.D.: @ Time — Duplicate I.D.: —

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:
☐ SGW FDG ☐ PIPELINE ☐ RETAIL
☐ CHEMICALS ☐ CONSULTANT ☐ LUBES
☐ TRANSPORTATION ☐ OTHER _____

Print Bill To Contact Name:	PlaNet Site or Project ID	☐ CHECK IF NO INCIDENT # APPLIES
		DATE: 03/11/24
PO #	**GSAP Project ID**	PAGE: 1 of 2

SAMPLING COMPANY: Blaine Tech Services, Inc
LOG CODE: BTSS
ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112
PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway
TELEPHONE: (425) 327-4585
FAX:
Bill To Contact E-MAIL: emily.blakeway@ghd.com

SITE ADDRESS: Street and City: 2555 13th Avenue
State: WA
GHD Project / Task Number: 12631170
EDF DELIVERABLE TO (Name, Company, Office Location): Emily Blakeway, GHD, WA
PHONE NO.: (425) 327-4585
E-MAIL: emily.blakeway@ghd.com
GHD Other ID
SAMPLER NAME(S) (Print): Jonah Davis
LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☐ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	UNIT COST: 8260C BTEX	UNIT COST: NWTPH-Dx	NON-UNIT COST: NWTPH-Gx	FIELD NOTES: Container PID Readings or Laboratory Notes
	TB-1	03/11/24	0900	WT	X					2	X		X	
	MW-302		1202		X					4	X		X	
	MW-307		1038		X					4	X		X	
	MW-308		1164		X					4	X		X	
	TX-03A		1140		X					4	X		X	
	MW-301	03/12/24	1002		X					4	X		X	
	MW-303		0937		X					4	X		X	
	MW-304		1052		X					4	X		X	
	MW-310		1027		X					4	X		X	
	MW-311		0909		X					4	X		X	

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature] FEDEX 3/12/24 1220	03/12/24	1220
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:
☐ SGW FDG ☐ PIPELINE ☐ RETAIL
☐ CHEMICALS ☐ CONSULTANT ☐ LUBES
☐ TRANSPORTATION ☐ OTHER _____

Print Bill To Contact Name:	PlaNet Site or Project ID	☐ CHECK IF NO INCIDENT # APPLIES
		DATE: 03/12/24
PO #	**GSAP Project ID**	PAGE: 2 of 2

SAMPLING COMPANY: Blaine Tech Services, Inc
LOG CODE: BTSS
ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112
PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway
TELEPHONE: (425) 327-4585
FAX:
Bill To Contact E-MAIL: emily.blakeway@ghd.com

SITE ADDRESS: Street and City: 2555 13th Avenue
State: WA
GHD Project / Task Number: 12631170
EDF DELIVERABLE TO (Name, Company, Office Location): Emily Blakeway, GHD, WA
PHONE NO.: (425) 327-4585
E-MAIL: emily.blakeway@ghd.com
GHD Other ID
SAMPLER NAME(S) (Print): Jonah Davis
LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☐ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	UNIT COST: 8260C BTEX	UNIT COST: NWTPH-Dx	NON-UNIT COST: NWTPH-Gx	Container PID Readings or Laboratory Notes
	MW-312	03/12/24	0842	WT	X					4	X		X	
	MW-313	↓	0816	↓	X					6	X	X	X	
	MW-315	↓	0749	↓	X					6	X	X	X	

FIELD NOTES:
TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FEDEX 3/12/24 1220	03/12/24	1220
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 240311 - JD1

ADDRESS 2555 13th Ave SW

DATE: 03/11/24

CITY & STATE Seattle, WA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
MW-201	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-202	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-203	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-204	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-206A	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-101	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-102	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-301	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-302	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL (PM)	G	P		Y	N	
MW-303	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
~~MW-304~~ MW-305	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	JD
TOTAL # CAPS REPLACED =									0		0	= TOTAL # OF LOCKS REPLACED						

Condition of Soil Boring Patches or Abandoned Monitoring Wells	G	P	N/A	If POOR, Borings/Well IDs or Location Description		Y	N	

Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted	Photos of Condition		Repair Date and PM Initials
NA	X	G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
0	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A		Y	N	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Jonah Davis / BTS

Print or type Name of Field Personnel & Consultant Company

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 740311-001 ADDRESS 2555 13th ave SW

DATE: 03/11/24 CITY & STATE Seattle, WA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
MW-307	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-308	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-309	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-310	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL MW	G	P		Y	N	
MW-311	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-312	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-313	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-314	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P	unable to access	Y	N	
MW-315	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
TES-MW-1	Standpipe	Flush	G	P	Size (inch) 4	Y	N	G	R	G	R	NL	G	P		Y	N	
TX-03A	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
TOTAL # CAPS REPLACED = 0											0 = TOTAL # OF LOCKS REPLACED							

Condition of Soil Boring Patches or Abandoned Monitoring Wells	G	P	N/A	If POOR, Borings/Well IDs or Location Description	Y	N	

Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted	Photos of Condition		Repair Date and PM Initials
NA	X	G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
0	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A		Y		

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Jonah Davis / BTS

Print or type Name of Field Personnel & Consultant Company

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 240311-501 ADDRESS 2555 13th Ave SW

DATE: 03/11/24 CITY & STATE Seattle, WA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
MW-208	Standpipe	(Flush)	(G)	P	Size (inch) 2	(Y)	N	(G)	R	G	R	(NL)	(G)	P		Y	(N)	
MW-210	Standpipe	(Flush)	(G)	P	Size (inch) 2	(Y)	N	(G)	R	G	R	(NL)	(G)	P		Y	(N)	
MW-211	Standpipe	(Flush)	(G)	P	Size (inch) 4	(Y)	N	(G)	R	G	R	(NL)	(G)	P		Y	(N)	
MW-212	Standpipe	(Flush)	(G)	P	Size (inch) 4	(Y)	N	(G)	R	G	R	(NL)	(G)	P		Y	(N)	
MW-304	Standpipe	(Flush)	(G)	P	Size (inch) 2	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
TOTAL # CAPS REPLACED =								(0)			(0)		= TOTAL # OF LOCKS REPLACED					

Condition of Soil Boring Patches or Abandoned Monitoring Wells	G	P	(N/A)	If POOR, Borings/Well IDs or Location Description		Y	N	

Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted	Photos of Condition		Repair Date and PM Initials
NA	X	G	P	(N/A)	G	P	(N/A)	G	P	(N/A)	Y	N	(N/A)		Y	(N)	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
0	Y	N	(N/A)	Y	N	(N/A)	G	P	(N/A)	Y	N	Y	N	(N/A)		Y	(N)	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Jonah Davis / BTS

Print or type Name of Field Personnel & Consultant Company

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME Seattle Harbor Island Terminal				PROJECT NUMBER 240311-JD1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
HANNA	085100051O1	03/11/24 @ 0530	PH 4, 7, 10	4.04, 7.10, 9.92	—	15.11	JD
			cond 3900	3932	—	15.62	JD
			ORP 245	242	—	15.32	JD
			DO 100%	102%	—	—	JD
HANNA	085100051O1	03/12/24 @ 0540	PH 4, 7, 10	4.05, 7.10, 9.10	—	15.17	JD
			cond 3900	3967	—	15.22	JD
			ORP 245	242	—	15.25	JD
			DO 100%	102%	—	—	JD

HASP Acknowledgment Sheet

Project Name: Seattle Harbor Island Terminal Project Number: 240311-301

This is to certify that I have received a pre-entry briefing regarding this HASP, and I understand its contents. My failure to follow and comply with the requirements contained in this plan may result in disciplinary action and/or termination.

Print Name	Signature	Date
Jonah Davis		03/11/24
MAC HILLER		03/11/24
Jonah Davis		03/12/24

	GHD Shell SGW (US) Daily Tailgate Meeting & Job Clearance Form	Issue: 1/2/2011 Revision 11: October 2016 Do NOT pre-populate any field.

Job Location:	Seattle Harbor Island Terminal	Date:	03/11/24
GHD Site Supervisor:	Sarah Davis	GHD PM:	Emily Blakeway

List activities to be performed today:	GW Sampling
Permitted Activities (specific permit to be competed):	☒ Not Applicable ☐ Confined Space Entry ☐ Excavation/Trenching ☐ Hot Work ☐ Hoisting/Rigging (any lifting with equipment, excluding drill rigs) ☐ Natural Gas System Maintenance

The above Permit-required activities require onsite GHD supervision unless approved by Regional Operations.

Muster Point:	Shell sign	Spill Kit Location:	Truck
First Aid Kit Location:	Truck	Fire Extinguisher Location:	Truck
Emergency cut-off switches:	NA	Designated cell phone use area(s):	Cab of Truck

Has the Site Manager/Owner been notified of the work activities and/or participated in a pre-work site walk?	☒ Yes ☐ No ☐ N/A
Is a fuel delivery scheduled for today? If yes, plan to Stop Work during fuel delivery.	☒ Yes ☐ No ☐ N/A
Has a site walk been performed to identify additional hazards?	☒ Yes ☐ No*
Have all personnel reviewed and understand the site specific HASP?	☒ Yes ☐ No*
Does each activity have a Job Safety Analysis (JSA)?	☒ Yes ☐ No*
Does each subcontractor have JSAs for their activities?	☒ Yes ☐ No* ☐ N/A
Have JSAs been reviewed by the work team and newly identified hazards been added to the JSA?	☒ Yes ☐ No*
Per our lone worker procedure, is each employee either accompanied by or in communications with another?	☒ Yes ☐ No* ☐ N/A
Has a Safe Lift Plan been completed and reviewed/approved by a GHD Subject Matter Expert?	☐ Yes ☐ No* ☒ N/A
Have all members of the work team confirmed understanding of the work, hazards, and controls/ mitigation?	☒ Yes ☐ No*
Has each person on the work team discussed all hazards and mitigation measures associated with any task which will require their feet to leave the ground?	☒ Yes ☐ No* ☐ N/A
Have work areas been properly cordoned-off to protect workers, site staff, and the public?	☒ Yes ☐ No* ☐ N/A
Have equipment checks been completed, documented, and reviewed?	☒ Yes ☐ No* ☒ N/A
Have there been any equipment modifications made by subcontractor(s)? Is yes, discuss modifications.	☐ Yes ☐ No ☒ N/A
Do all members of the work team have API Safety Keys (GHD excluded)?	☒ Yes ☐ No* ☐ N/A
Do all members of the work team have a Shell "Life Saving Rules" Training card?	☒ Yes ☐ No*
Do all site workers understand injury/ intervention reporting requirements including immediately notifying the GHD Site Supervisor of any injury, near miss, unsafe condition, hazard observation, or release?	☒ Yes ☐ No*
If permits are required, have they been reviewed and permit conditions understood by the Team?	☒ Yes ☐ No* ☐ N/A
If drilling, did driller physically point out all pinch points to entire team (GHD and all subs)?	☐ Yes ☐ No* ☒ N/A
If drilling, has the driller & crew agreed the audible and visible signals for "all clear" prior to engaging controls?	☐ Yes ☐ No* ☒ N/A

** If No, then work cannot be performed until corrective action is completed and documented.*

Title of GHD JSAs reviewed today:	—	Title of Subcontractor's JSAs reviewed today:	GW Sampling @ Shell

All personnel are wearing (regardless of activity):	☒ Hard Hat ☒ Safety Glasses ☒ Safety Vest ☒ Steel-Toed Boots ☒ Gloves (appropriate for task) See JSA for additional task specific PPE requirements.

Stop Work Authority & Obligation

* All employees will stop the job any time anyone is concerned or uncertain about safety.
* All employees will stop the job if anyone identifies a hazard or additional mitigation not recorded on the JSA.
* All employees will be alerted to any changes in personnel or conditions at the worksite.
* All employees will stop the job and reassess a task, hazards, and mitigations, and then amend the JSA as needed.

Other Items Discussed Today:

Circle the Life Saving Rule Icons that are applicable to the work/activities that will take place today:



BYPASSING SAFETY CONTROLS | CONFINED SPACE | DRIVING | ENERGY ISOLATION | HOT WORK | LINE OF FIRE | SAFE MECHANICAL LIFTS | WORK AUTHORIZATION | WORKING AT HEIGHTS

	GHD Shell SGW (US) Daily Tailgate Meeting & Job Clearance Form	Issue: January 2, 2011 Revision 11: October 2016 Do NOT pre-populate any field

SITE WORKERS (including GHD Contractors and Subcontractors): By signing here, you are stating the following:

* You understand that compliance with Shell's Life Saving Rules is mandatory and that failing to follow to them may result in termination.
* You have been involved in reviewing the JSAs and understand the hazards and control measures associated with each task you are about to perform.
* You understand the permit to work requirements applicable to the work you are about to perform (if it includes permitted activities).
* You understand the Shell Life Saving Rules and are aware that tasks or work that is not risk-assessed shall not be performed.
* You are aware of your authority and obligation to 'Stop Work'.

I arrived and departed fit for duty:

* You are physically and mentally fit for duty,
* You are not under the influence of any type of medication, drugs, or alcohol that could affect your ability to work safely.
* You are aware of your responsibility to immediately report any illness, injury (regardless of where or when it occurred), or fatigue issue you may have to the GHD Site Supervisor.
* You will sign-out uninjured unless you have otherwise informed the GHD Site Supervisor.

Print Name & Company	Signature	Initials & Sign In Time	Initials & Sign Out Time
Jonah Davis / BTS		JD In & Fit 0645	JD Out & Fit 1245
MAC HILLER / BTS		MH In & Fit 0645	MH Out & Fit ~~1223~~ 1245
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit

(Attach additional Site Worker sign-in/out sheets if needed)

PERSONAL SAFETY COMMITMENT (Attach additional Personal Safety Commitment sheets, if needed)

Print Name	"I will personally commit to do the following to positively improve site safety today":
Jonah Davis	I will wear correct PPE
MAC HILLER	I WILL WEAR CORRECT PPE

SITE VISITORS (attach additional Site Visitor sign-in/out sheets if needed)

Print Name	Company Name	Arrival Time	Departure Time	Signature

SITE REPRESENTATIVE Sign In/Out (operating sites only, and signature must be requested. If the operator refuses to sign, note this on the Form)

Sign In: *I have discussed this Job Clearance Form with the contractor*		Sign Out: *I have discussed this Job Clearance Form with the contractor*	
Site Representative Name	Site Representative Signature	Site Representative Name	Site Representative Signature
—	No Site Rep	—	No site Rep

TWILIGHT TOOL BOX TALK (Complete the following once field activities for the day have been concluded):

Were there any Incidents, Near Misses, Potential Incidents, or Positive Interventions today?	☐ Yes ☒ No	If yes, provide details:
Were there any 'Stop Work' interventions?	☐ Yes ☒ No	If yes, provide details:
Were there any areas for improvement noted?	☐ Yes ☒ No	If yes, provide details:
Is the Site Manager/Owner happy with the way you left the site (including the location of waste drums and/or equipment)?	☒ Yes ☐ No	If no, provide details:
I certify that the above information is true and the job site is being left in a safe condition	☒ Yes ☐ No	GHD Site Supervisor Signature:

	GHD Shell SGW (US) Daily Tailgate Meeting & Job Clearance Form	Issue: 1/2/2011 Revision 11: October 2016 Do NOT pre-populate any field.

Job Location:	Shell Harbor Island Seattle	Date:	03/12/24
GHD Site Supervisor:	Jonah Davis	GHD PM:	Emily Blakeway

List activities to be performed today:	GW Sampling
Permitted Activities (specific permit to be competed):	☒ Not Applicable ☐ Confined Space Entry ☐ Excavation/Trenching ☐ Hot Work ☐ Hoisting/Rigging (any lifting with equipment, excluding drill rigs) ☐ Natural Gas System Maintenance

The above Permit-required activities require onsite GHD supervision unless approved by Regional Operations.

Muster Point:	Shell Sign	Spill Kit Location:	Truck
First Aid Kit Location:	Truck	Fire Extinguisher Location:	Truck
Emergency cut-off switches:	NA	Designated cell phone use area(s):	Cab of Truck

Has the Site Manager/Owner been notified of the work activities and/or participated in a pre-work site walk?	☒ Yes ☐ No ☐ N/A
Is a fuel delivery scheduled for today? If yes, plan to Stop Work during fuel delivery.	☒ Yes ☐ No ☐ N/A
Has a site walk been performed to identify additional hazards?	☒ Yes ☐ No*
Have all personnel reviewed and understand the site specific HASP?	☒ Yes ☐ No*
Does each activity have a Job Safety Analysis (JSA)?	☒ Yes ☐ No*
Does each subcontractor have JSAs for their activities?	☒ Yes ☐ No* ☐ N/A
Have JSAs been reviewed by the work team and newly identified hazards been added to the JSA?	☒ Yes ☐ No*
Per our lone worker procedure, is each employee either accompanied by or in communications with another?	☒ Yes ☐ No* ☐ N/A
Has a Safe Lift Plan been completed and reviewed/approved by a GHD Subject Matter Expert?	☐ Yes ☐ No* ☒ N/A
Have all members of the work team confirmed understanding of the work, hazards, and controls/ mitigation?	☒ Yes ☐ No*
Has each person on the work team discussed all hazards and mitigation measures associated with any task which will require their feet to leave the ground?	☒ Yes ☐ No* ☐ N/A
Have work areas been properly cordoned-off to protect workers, site staff, and the public?	☒ Yes ☐ No* ☐ N/A
Have equipment checks been completed, documented, and reviewed?	☒ Yes ☐ No* ☐ N/A
Have there been any equipment modifications made by subcontractor(s)? Is yes, discuss modifications.	☐ Yes ☐ No ☒ N/A
Do all members of the work team have API Safety Keys (GHD excluded)?	☒ Yes ☐ No* ☐ N/A
Do all members of the work team have a Shell "Life Saving Rules" Training card?	☒ Yes ☐ No*
Do all site workers understand injury/ intervention reporting requirements including immediately notifying the GHD Site Supervisor of any injury, near miss, unsafe condition, hazard observation, or release?	☒ Yes ☐ No*
If permits are required, have they been reviewed and permit conditions understood by the Team?	☐ Yes ☐ No* ☒ N/A
If drilling, did driller physically point out all pinch points to entire team (GHD and all subs)?	☐ Yes ☐ No* ☒ N/A
If drilling, has the driller & crew agreed the audible and visible signals for "all clear" prior to engaging controls?	☐ Yes ☐ No* ☒ N/A

** If No, then work cannot be performed until corrective action is completed and documented.*

Title of GHD JSAs reviewed today:	—	Title of Subcontractor's JSAs reviewed today:	GW Sampling @ Shell

All personnel are wearing (regardless of activity):	☒ Hard Hat ☒ Safety Glasses ☒ Safety Vest ☒ Steel-Toed Boots ☒ Gloves (appropriate for task) See JSA for additional task specific PPE requirements.

Stop Work Authority & Obligation

* All employees will stop the job any time anyone is concerned or uncertain about safety.
* All employees will stop the job if anyone identifies a hazard or additional mitigation not recorded on the JSA.
* All employees will be alerted to any changes in personnel or conditions at the worksite.
* All employees will stop the job and reassess a task, hazards, and mitigations, and then amend the JSA as needed.

Other Items Discussed Today:

Circle the Life Saving Rule Icons that are applicable to the work/activities that will take place today:



	GHD Shell SGW (US) Daily Tailgate Meeting & Job Clearance Form	Issue: January 2, 2011 Revision 11: October 2016 Do NOT pre-populate any field.

SITE WORKERS (including GHD Contractors and Subcontractors): By signing here, you are stating the following:

* You understand that compliance with Shell's Life Saving Rules is mandatory and that failing to follow to them may result in termination.
* You have been involved in reviewing the JSAs and understand the hazards and control measures associated with each task you are about to perform.
* You understand the permit to work requirements applicable to the work you are about to perform (if it includes permitted activities).
* You understand the Shell Life Saving Rules and are aware that tasks or work that is not risk-assessed shall not be performed.
* You are aware of your authority and obligation to 'Stop Work'.

I arrived and departed fit for duty:

* You are physically and mentally fit for duty,
* You are not under the influence of any type of medication, drugs, or alcohol that could affect your ability to work safely.
* You are aware of your responsibility to immediately report any illness, injury (regardless of where or when it occurred), or fatigue issue you may have to the GHD Site Supervisor.
* You will sign-out uninjured unless you have otherwise informed the GHD Site Supervisor.

Print Name & Company	Signature	Initials & Sign In Time	Initials & Sign Out Time
Jonah Davis @ BIS		JD In & Fit 0700	JD Out & Fit 1145
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit

(Attach additional Site Worker sign-in/out sheets if needed)

PERSONAL SAFETY COMMITMENT (Attach additional Personal Safety Commitment sheets, if needed)

Print Name	"I will personally commit to do the following to positively improve site safety today":
Jonah Davis	I will wear correct PPE

SITE VISITORS (attach additional Site Visitor sign-in/out sheets if needed)

Print Name	Company Name	Arrival Time	Departure Time	Signature

SITE REPRESENTATIVE Sign In/Out (operating sites only, and signature must be requested. If the operator refuses to sign, note this on the Form)

Sign In: *I have discussed this Job Clearance Form with the contractor*		Sign Out: *I have discussed this Job Clearance Form with the contractor*	
Site Representative Name	**Site Representative Signature**	**Site Representative Name**	**Site Representative Signature**
~	No site Rep	—	No site Rep

TWILIGHT TOOL BOX TALK (Complete the following once field activities for the day have been concluded):

Were there any Incidents, Near Misses, Potential Incidents, or Positive Interventions today?	☐ Yes ☒ No	If yes, provide details:
Were there any 'Stop Work' interventions?	☐ Yes ☒ No	If yes, provide details:
Were there any areas for improvement noted?	☐ Yes ☒ No	If yes, provide details:
Is the Site Manager/Owner happy with the way you left the site (including the location of waste drums and/or equipment)?	☒ Yes ☐ No	If no, provide details:
I certify that the above information is true and the job site is being left in a safe condition	☒ Yes ☐ No	GHD Site Supervisor Signature:

BLAINE TECH SERVICES **JSA** **Groundwater Monitoring at Shell Site / Facility**	Date: 03/11/24 — 03/12/24 Location: Seattle Harbor Island Terminal	Onsite Work Crew: JD, ~~AC~~ SD MM

PPE -- Personal Protective Equipment	Required (Y/N)	PPE -- Personal Protective Equipment	Required (Y/N)
Steel Toed Safety Shoes	(Y) / N	Respirator	Y / (N)
Hi-Viz Safety Vest (Class 2)	(Y) / N	Hard Hat	(Y) / N
Safety Glasses	(Y) / N	Rain Gear	(Y) / N
Goggles	Y / (N)	Snake Gators	Y / (N)
Face Shield	Y / (N)	Tyvek Coveralls	Y / (N)
Nitrile Gloves	(Y) / N	Fire Resistant Clothing (FRC)	(Y) / N
Kevlar Gloves	(Y) / N	Knee Pads	(Y) / N
Rubber/Neoprene Gloves	Y / (N)	Hi-Viz Safety Jacket or Pants (Class 3)	(Y) / N
Hearing Protection	Y / (N)	Other (list)	Y / (N)

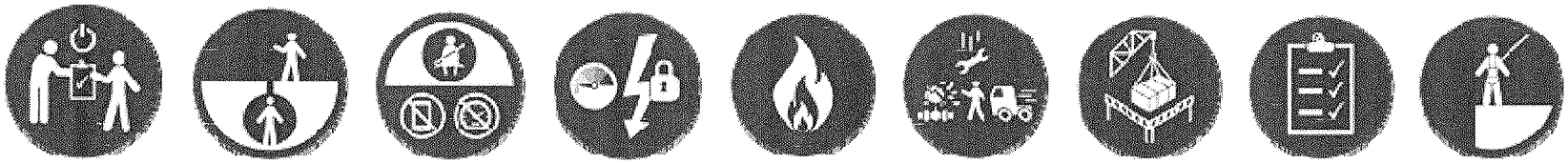
HAZARD ASSESSMENTS:

Whenever you arrive at a new job site, a **Hazard Assessment** is required to identify and evaluate potential hazards. **Hazard Assessments** must be performed prior to each move you make with your vehicle and after you arrive at each new work location or well. **Hazard Assessments** are also required whenever site conditions change. Technicians should maintain a high level of **Situational Awareness**, frequently assessing their safety.

STOP WORK AUTHORITY:

If, at any time, you feel that the work cannot be performed safely, you must **Stop Work and Report** to your Blaine Tech Project Manager.

Adherence to **9 Life Saving Rules** (LSRs) is **REQUIRED**:



My signature *below indicates that I have read this JSA; that I understand the hazards and safe work practices associated with the tasks; and that all requirements and conditions listed above have been met and verified prior to starting the work.*

Name/Signature Jonah Davis / **Date/Time** 3/11/24 @ ~~0630~~ 0515

Name/Signature MAC HILLER / **Date/Time** 03/11/24 @ 0519

Name/Signature Jonah Davis / **Date/Time** 03/12/24 @ 0530

Name/Signature _____ **Date/Time** _____

Name/Signature _____ **Date/Time** _____

Name/Signature _____ **Date/Time** _____

Name/Signature _____ **Date/Time** _____

BLAINE TECH SERVICES

JSA
Traffic Control at Shell Site / Facility

Date: 03/11/24 – 03/12/24

Location: @ Seattle Harbor Island Terminal

Onsite Work Crew: JD, MH

PPE -- Personal Protective Equipment	Required (Y/N)	PPE -- Personal Protective Equipment	Required (Y/N)
Steel Toed Safety Shoes	(Y) / N	Respirator	Y / (N)
Hi-Viz Safety Vest (Class 2)	(Y) / N	Hard Hat	(Y) / N
Safety Glasses	(Y) / N	Rain Gear	(Y) / N
Goggles	Y / (N)	Snake Gators	Y / (N)
Face Shield	Y / (N)	Tyvek Coveralls	Y / (N)
Nitrile Gloves	(Y) / N	Fire Resistant Clothing (FRC)	(Y) / N
Kevlar Gloves	(Y) / N	Knee Pads	(Y) / N
Rubber/Neoprene Gloves	Y / (N)	Hi-Viz Safety Jacket or Pants (Class 3)	(Y) / N
Hearing Protection	Y (N)	Other (list)	Y (N)

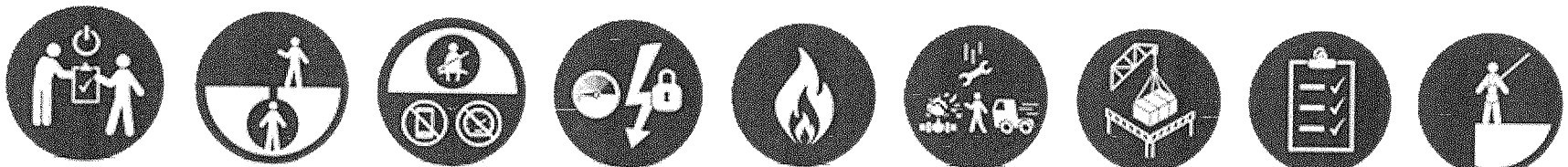
HAZARD ASSESSMENTS:

Whenever you arrive at a new job site, a **Hazard Assessment** is required to identify and evaluate potential hazards. **Hazard Assessments** must be performed prior to each move you make with your vehicle and after you arrive at each new work location or well. **Hazard Assessments** are also required whenever site conditions change. Technicians should maintain a high level of **Situational Awareness**, frequently assessing their safety.

STOP WORK AUTHORITY:

If, at any time, you feel that the work cannot be performed safely, you must **Stop Work and Report** to your Blaine Tech Project Manager.

Adherence to **9 Life Saving Rules** (LSRs) is **REQUIRED**:



Development Team	Document Control System & Issue Authority	
Bart Gebbie, Director of Client Services; Francis Thie, Vice President; Richard Blaine, Vice President	Approved by: Francis Thie, Vice President, 12/27/2021	Issue Authority: Francis Thie, Vice President, 12/27/2021
Retail Engineering and DS SGW FDG Contractor Safety CASE review performed by: Francis Thie, Vice President, 11/11/2020		
Hazard Control Sheets (HCS) Utilized: 7-Hot works; 10-Water under pressure; 11-Air under pressure; 13-Slips, Trips and Falls; 19-Moving vehicles to and from site; 20-Moving vehicles off site and forecourt work; 23-Severe weather; 27-Insufficient oxygen atmosphere/Confined space; 29-Benzene; 32-Vermin; 35-Physical effort; 36-Noise; 37-Heat stress; 38-Cold stress; 40-Security; 41-Hazardous Waste		
Work Type	Traffic Control at Shell Site / Facility	
JSA Type	Summary JSA	
Organization	Blaine Tech Services, Inc.	

My signature *below indicates that I have read this JSA; that I understand the hazards and safe work practices associated with the tasks; and that all requirements and conditions listed above have been met and verified prior to starting the work.*

Name/Signature Jonah Davis **Date/Time** 03/11/24 @ 0515

Name/Signature Mac Hiller **Date/Time** 03/11/24 @ 0521

Name/Signature Jonah Davis **Date/Time** 03/12/24 @ 0530

Name/Signature _____ **Date/Time** _____

Name/Signature _____ **Date/Time** _____

Name/Signature _____ **Date/Time** _____

Name/Signature _____ **Date/Time** _____

Monitoring Well Gauging Field Log - Shoreline

Project No: 11218519
SAP: 357032
PlaNet ID: MIGUS357032
Location: 2555 13th Avenue SW Seattle (Harbor Island Terminal)

Personnel: Abby Palmgren, Calli Gray

Date: 4 / 11 / 24

Well ID	Time Gauged	Depth to Product	Depth to Water	Comments
MW-208[1]	0743	-	4.66	
NW-210[4]	0808	5.74	5.97	absorbent sock changed, saturated
MW-211[2]	0751	-	4.92	
MW-212[3]	0759	-	5.68	



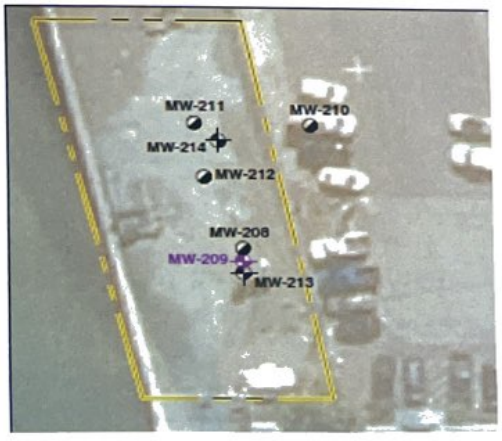
Monitoring Well Gauging Field Log - Shoreline

Project No: 11218519
SAP: 357032
PlaNet ID: MIGUS357032
Location: 2555 13th Avenue SW Seattle (Harbor Island Terminal)

Personnel: Calli Gray, Abby Palmgren

Date: 5/23/24

Well ID	Time Gauged	Depth to Product	Depth to Water	Comments
MW-208 [1]	0800	–	5.48	
NW-210 [4]	0840	~	6.41	Sock replaced
MW-211 [2]	0815	–	5.80	
MW-212 [3]	0820	–	5.65	



WELL GAUGING DATA

Project # 240617-DO Date 6-17-24 Client GHD

Site Shell Harbor Island Terminal

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Water/ SPH- Meter	PID (PPM)
MW-201	0902	2	—	—	—	—	14.18	21.52		0.0
MW-202	0900	2	—	—	—	—	13.47	21.80		0.0
MW-203	0914	2	—	—	—	—	7.49	14.10		0.0
MW-204	0906	2	—	—	—	—	11.23	17.71		0.0
MW-206A	0908	2	—	—	—	—	9.19	16.55		0.0
MW-101	0838	2	—	—	—	—	10.63	20.14		0.0
MW-102	0847	2	—	—	—	—	8.35	17.43		0.0
MW-301	1043	2	—	—	—	—	5.78	14.66		0.0
MW-302	1035	2	—	—	—	—	6.01	15.02		0.0
MW-303	0956	2	—	—	—	—	5.78	14.73		0.0
MW-304	1040	2	—	—	—	—	5.81	14.66		0.0
MW-307	0839	2	—	—	—	—	8.40	17.46		0.0
MW-308	0840	2	—	—	—	—	8.45	17.28		0.0
MW-309	1040	2	—	—	—	—	5.88	14.63		0.0
MW-310	1049	2	—	—	—	—	6.71	14.59	↓	0.0

Instruments Used: Durham Geoslope Water Level Indicator* GeoTech Oil/Water Interface Probe** Other: _____

Survey Point - Top of casing at all wells

WELL GAUGING DATA

Project # 240617-D01 Date 6-17-24 Client GHD

Site Shell Harbor Island Terminal

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Water/ SPH Meter	PID (PPM)	
MW-311	1038	2	-	-	-	-	7.94	14.99		0.0	6/19 *
MW-312	1058	2	-	-	-	-	7.63	14.69		0.0	
MW-313	1102	2	-	-	-	-	6.32	13.71		0.0	
MW-314	0830	2	-	-	-	-	7.29	14.81		0.0	* 6/19
MW-315	1104	2	-	-	-	-	7.77	14.49	G	0.0	
TES-MW-1	0841	4	-	-	-	-	9.21	15.73		0.0	
TX-03A	0821	2	-	-	-	-	6.45	14.72		0.0	* 6/19
MW-05	0821	2	-	-	-	-	8.03	66.81		0.0	
MW-211	0929	4	-	-	-	-	6.00	12.97		0.0	
MW-112A	0955	2	-	-	-	-	6.36	14.62		0.0	
SH-04	0950	2	-	-	-	-	9.71	18.01		0.0	
MW-104	0812	2	-	-	-	-	6.09	14.72		0.0	
MW-113	0806	2	-	-	-	-	5.18	14.90		0.0	
MW-114	0810	2	-	-	-	-	5.37	14.92		0.0	
MW-115	0807	2	-	-	-	-	5.20	14.89		0.0	

Instruments Used: Durham Geoslope Water Level Indicator* GeoTech Oil/Water Interface Probe** Other: _____

Survey Point - Top of casing at all wells * Covered / Parked over on initial gauge

WELL GAUGING DATA

Project # 240617-D01 Date 6-17-24 Client GHD

Site Shell Harbor Island Terminal

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Water/ SPH Meter	PID (PPM)
MW-213	0937	2	—	—	—	—	8.60	38.81		0.0
MW-214	0931	2	—	—	—	—	8.81	39.58		0.0
MW-208	0935	2	—	—	—	—	5.59	13.64		0.0
MW-210	0933	2	—	—	—	—	6.05	14.44		0.0
MW-212	0937	4	—	—	—	—	6.12	11.28		0.0
MW-111	0818	2	—	—	—	—	5.00	14.70	↓	0.0

Instruments Used: Durham Geoslope Water Level Indicator* GeoTech Oil/Water Interface Probe** Other: _____

Survey Point - Top of casing at all wells

Monitoring Well Gauging Field Log - Shoreline

Date:
Job No:
SAP:
Incident No 300036
Location: 2555 13th Ave SW, Seattle (Harbor Island Terminal)
Personnel:

Well ID	Time Gauged	Depth to Water	Depth to Product	Comments
MW-208	0935	5.59	—	
MW-210	0933	6.05	—	Absorbant sock REPLACED
MW-211	0929	6.00	—	
MW-212	0937	6.12	—	Absorbant sock REPLACED

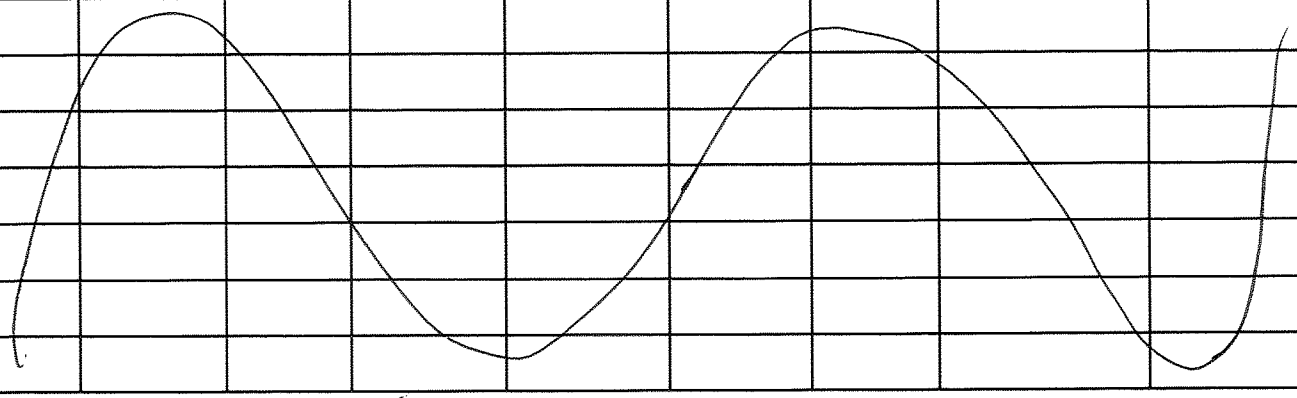
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-D01	Client: GHD
Sampler: LJ	Gauging Date: 6-17-24
Well I.D.: MW-05	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 66.81	Depth to Water (ft.): 8.03
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Horiba

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ____

Start Purge Time: 1145 Flow Rate: 200 mL/min Pump Depth: 37.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)	PID
1148	15.81	7.02	65	30	6.24	80.0	600	8.39	0.0
1151	15.57	6.92	86	47	6.31	79.4	1200	8.43	0.0
1154	15.52	6.85	84	38	6.22	81.6	1800	8.43	0.0
1157	15.57	6.78	85	38	6.19	79.6	2400	8.45	0.0
1200	15.66	6.79	85	35	6.03	79.0	3000	8.45	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000 mL

Sampling Time: 1202 Sampling Date: 6-17-24

Sample I.D.: MW-05 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-~~A~~D01	Client: GHD
Sampler: AR	Gauging Date: 6/17/24
Well I.D.: MW-104	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.72	Depth to Water (ft.): 6.09
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 0938 Flow Rate: 100 mL/min Pump Depth: 10.5

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0941	17.86	6.37	334	28	0.46	-32.7	300	6.21	0.0
0944	18.13	6.12	334	26	0.30	-18.7	600	6.29	0.0
0947	18.27	5.95	330	25	0.23	-10.1	900	6.32	0.0
0950	18.25	5.90	327	25	0.20	-4.0	1200	6.30	0.0
0953	18.21	5.89	329	24	0.21	-1.8	1500	6.30	0.0

Did well dewater? Yes (No) Amount actually evacuated: 1500

Sampling Time: 0955 Sampling Date: 6/19/24

Sample I.D.: MW-104 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-D01	Client: GHD
Sampler: LJ	Gauging Date: 6-17-24
Well I.D.: MW-111	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 14.70	Depth to Water (ft.): 5.00
Depth to Free Product: ____	Thickness of Free Product (feet): ____
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ____

Start Purge Time: 1218 Flow Rate: 200 mL/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1221	16.55	6.67	117	32	2.87	68.0	600	5.05	0.0
1224	16.88	6.61	113	28	2.76	67.1	1200	5.05	0.0
1227	17.09	6.60	108	26	2.71	67.8	1800	5.05	0.0
1230	17.18	6.56	106	29	2.66	68.2	2400	5.06	0.0
1233	17.21	6.51	107	27	2.65	69.8	3000	5.06	0.0

Did well dewater? Yes (No) Amount actually evacuated: 3000 mL

Sampling Time: 1235 Sampling Date: 6-17-24

Sample I.D.: MW-111 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-D01	Client: GHD
Sampler: DO	Gauging Date: 6/17/24
Well I.D.: MW-112A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.62	Depth to Water (ft.): 6.36
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0840 Flow Rate: 200 mL/min Pump Depth: 10.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0843	15.46	6.24	399	22	0.23	221.0	300	6.42	0.0
0846	15.93	6.21	402	19	0.19	213.7	600	6.43	0.0
0849	16.12	6.20	398	18	0.18	209.5	900	6.46	0.0
0852	16.33	6.20	397	18	0.18	206.4	1200	6.48	0.0
0855	16.42	6.20	396	17	0.18	204.1	1500	6.51	0.0

Did well dewater? Yes (No) Amount actually evacuated: 1500

Sampling Time: 0858 Sampling Date: 6/18/24

Sample I.D.: MW-112A Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

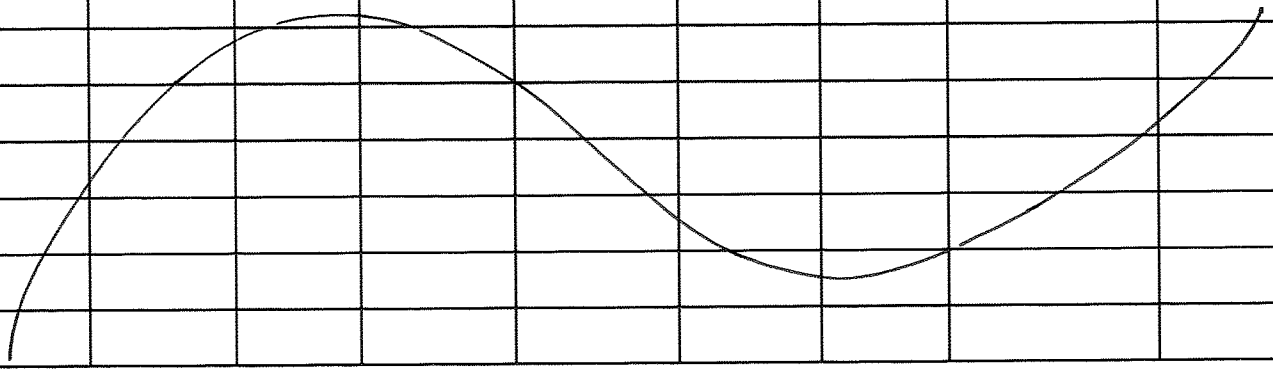
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-001	Client: GHD
Sampler: DO	Gauging Date: 6/17/24
Well I.D.: MW-113	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 14.90	Depth to Water (ft.): 5.18
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ____

Start Purge Time: 1237 Flow Rate: 100 mL/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1240	14.29	6.54	269	21	0.29	239.9	300	5.20	0.0
1243	14.42	6.50	272	19	0.12	224.8	600	5.28	0.0
1246	14.46	6.48	271	18	0.10	218.4	900 1200	5.31	0.0
1249	14.59	6.48	270	18	0.11	214.3	1200	5.33	0.0
1252	14.63	6.47	270	18	0.11	210.6	1500	5.37	0.0



Did well dewater? Yes (No)	Amount actually evacuated: 1500
Sampling Time: 1255	Sampling Date: 6/17/24
Sample I.D.: MW-113	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: see COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

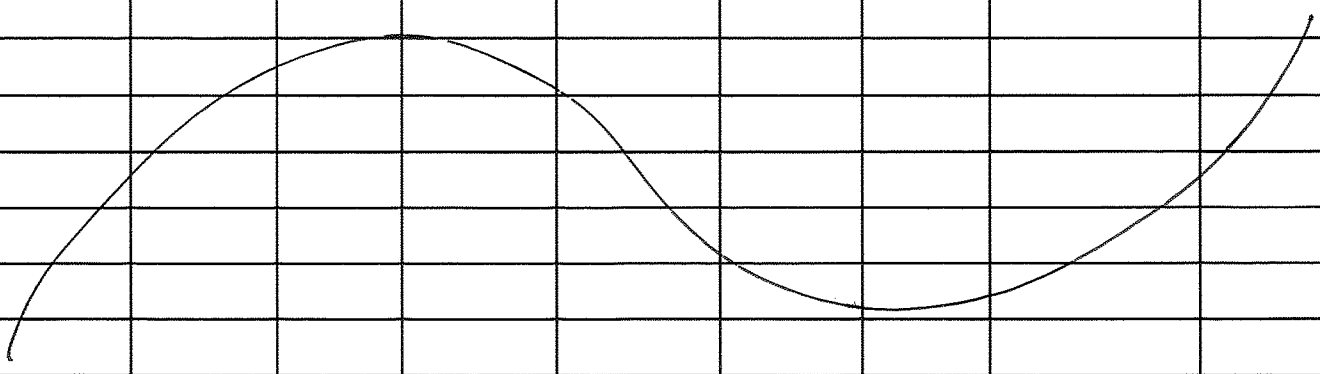
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-D01	Client: GHD
Sampler: DO	Gauging Date: 6/17/24
Well I.D.: MW-114	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.92	Depth to Water (ft.): 5.57
Depth to Free Product: —	Thickness of Free Product (feet): -
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ___

Start Purge Time: 1212 Flow Rate: 100 mL/min Pump Depth: 10.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1215	14.37	7.43	139	49	2.50	206.7	300	5.64	0.0
1218	14.44	7.34	139	45	2.46	210.8	600	5.80	0.0
1221	14.54	7.24	137	44	2.45	216.3	900	5.82	0.0
1224	14.65	7.20	133	42	2.39	221.1	1200	5.83	0.0
1227	14.69	7.16	135	42	2.37	223.8	1500	5.85	0.0



Did well dewater? Yes (No)	Amount actually evacuated: 1500
Sampling Time: 1230	Sampling Date: 6/17/24
Sample I.D.: MW-114	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-D01	Client: GHD
Sampler: DO	Gauging Date: 6/17/24
Well I.D.: MW-115	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.89	Depth to Water (ft.): 5.20
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 1140 Flow Rate: 200 mL/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)	PID
1143	15.53	8.14	288	46	0.31	216.7	300	5.27	0.0
1146	15.58	8.17	281	47	0.22	213.9	600	5.39	0.0
1149	15.69	8.16	279	42	0.17	212.1	900	5.44	0.0
1152	15.82	8.09	274	40	0.12	206.5	1200	5.51	0.0
1155	15.95	8.07	274	39	0.13	204.2	1500	5.59	0.0

Did well dewater? Yes No Amount actually evacuated: 1500

Sampling Time: 1158 Sampling Date: 6/17/24

Sample I.D.: MW-115 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

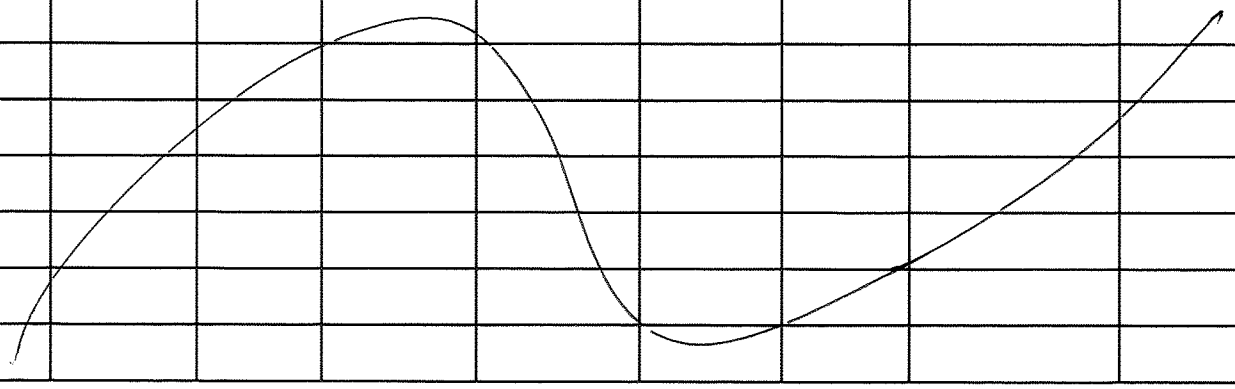
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-001	Client: GHD
Sampler: DO	Gauging Date: 6/17/24
Well I.D.: MW-202	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 21.80	Depth to Water (ft.): 13.47
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 1146 Flow Rate: 100 ml/min Pump Depth: 7.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1149	15.57	6.38	326	20	0.15	160.4	300	13.56	0.0
1152	16.10	6.24	326	17	0.15	163.0	600	13.57	0.0
1155	16.32	6.16	325	16	6.16	163.4	900	13.59	0.0
1158	16.37	6.13	326	15	0.17	163.3	1200	13.60	0.0
1201	16.42	6.11	327	15	0.17	162.5	1500	13.62	0.0



Did well dewater? Yes (No) Amount actually evacuated: 1500

Sampling Time: 1204 Sampling Date: 6/18/24

Sample I.D.: MW-202 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-001	Client: GHD
Sampler: AP	Gauging Date: 6/17/24
Well I.D.: MW-203	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.10	Depth to Water (ft.): 7.49
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 1130 Flow Rate: 100 ml/min Pump Depth: 10.5

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1133	14.62	6.20	290	37	0.16	-19.6	300	7.54	0.0
1136	14.73	6.13	291	35	0.10	-16.0	600	7.59	0.0
1139	14.55	6.10	292	32	0.06	-13.8	900	7.62	0.0
1142	14.57	6.07	291	31	0.05	-12.0	1200	7.62	0.0
1145	14.60	6.05	291	30	0.06	-10.9	1500	7.61	0.0

Did well dewater? Yes (No) Amount actually evacuated: 1500

Sampling Time: 1148 Sampling Date: 6/18/24

Sample I.D.: MW-203 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

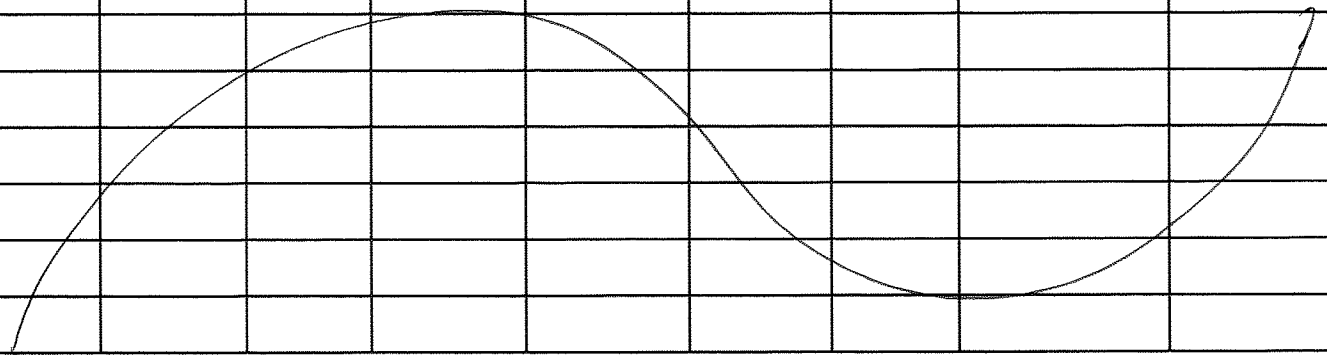
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-D01	Client: Griffin
Sampler: RD	Gauging Date: 6/17/24
Well I.D.: MW-213	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 38.81	Depth to Water (ft.): 8.60
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ____

Start Purge Time: 0936 Flow Rate: 100 mL/min Pump Depth: 35'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0939	17.49	5.89	18.22	18	104.6	168.8	300	8.82	0.0
0942	17.65	7.21	18.23	17	0.83	96.5	600	8.82	0.0
0945	17.80	7.43	18.23	17	0.78	70.4	900	8.83	0.0
0948	17.84	7.49	18.23	16	0.73	68.2	1200	8.85	0.0
0951	17.91	7.51	18.23	16	0.69	67.1	1500	8.87	0.0



Did well dewater? Yes No Amount actually evacuated: 1500

Sampling Time: 0954 Sampling Date: 6/19/24

Sample I.D.: MW-213 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-001	Client: GHD
Sampler: DO	Gauging Date: 6/17/24
Well I.D.: MW-214	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 39.58	Depth to Water (ft.): 8.81
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 0905 Flow Rate: 100 mL/min Pump Depth: ~~24.5~~ 35'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0908	16.71	6.50	22866	24	2.18	191.7	300	9.20	0.0
0911	16.07	6.69	1042	24	1.36	235.1	600	9.24	0.0
0914	16.45	5.99	707	23	1.03	275.5	900	9.26	0.0
0917	16.53	5.94	701	22	1.01	281.9	1200	9.26	0.0
0920	16.59	5.90	699	22	1.02	284.6	1500	9.29	0.0

Did well dewater? Yes (No) Amount actually evacuated: 1500

Sampling Time: 0923 Sampling Date: 6/19/24

Sample I.D.: MW-214 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

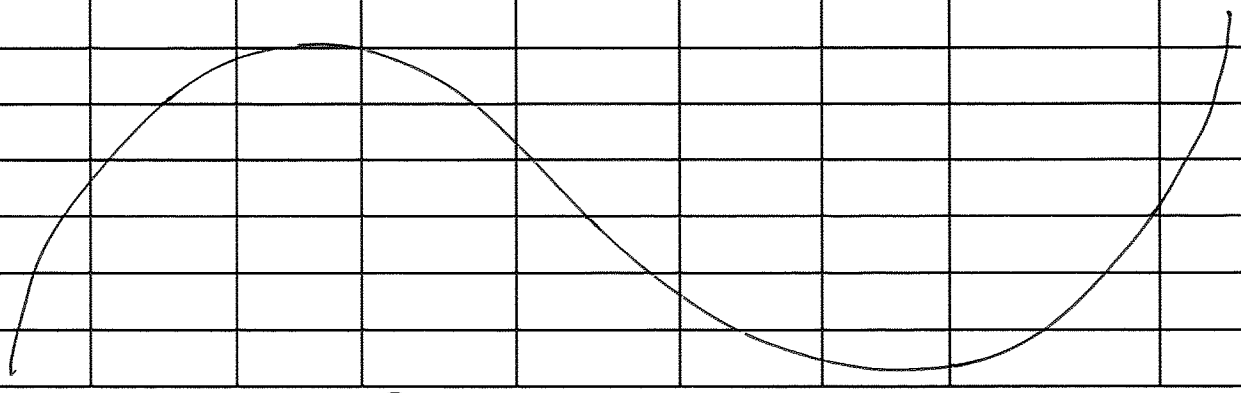
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-001	Client: GHD
Sampler: DO	Gauging Date: 6/17/24
Well I.D.: MW-301	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 14.66	Depth to Water (ft.): 5.78
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: ~~Dedicated Tubing~~ New Tubing Other ____

Start Purge Time: 1013 Flow Rate: ~~200~~ 100 mL/min Pump Depth: 10.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1016	14.44	6.48	402	29	0.37	173.7	300	5.82	0.0
1019	15.04	6.44	393	23	0.19	173.0	600	5.82	0.0
1022	15.46	6.41	398	24	0.10	172.1	900	5.85	0.0
1025	15.57	6.40	402	23	0.10	168.4	1200	5.87	0.0
1028	15.61	6.39	406	22	0.10	164.9	1500	5.88	0.0



Did well dewater? Yes (No) Amount actually evacuated: 1500

Sampling Time: 1031 Sampling Date: 6/18/24

Sample I.D.: MW-301 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

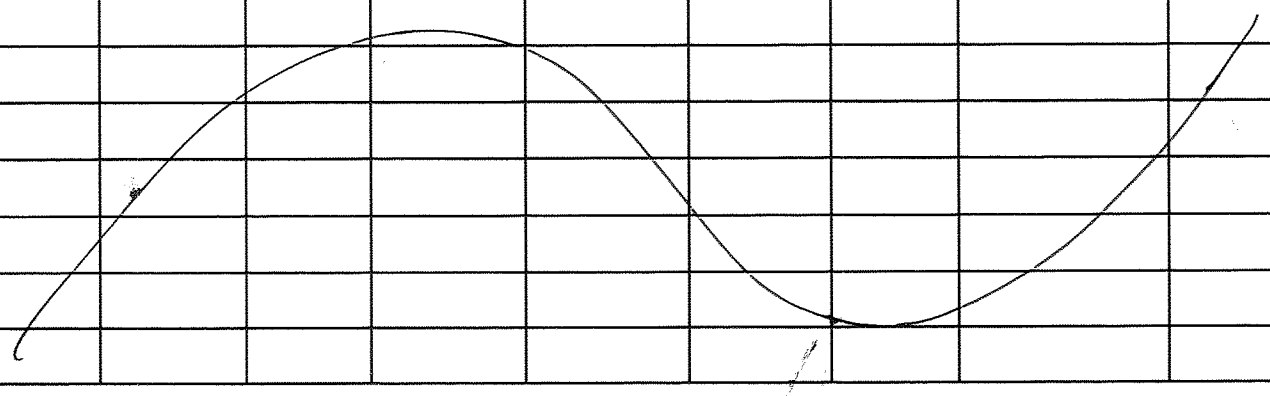
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-001	Client: GHD
Sampler: DO	Gauging Date: 6/17/24
Well I.D.: MW-302	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 15.52	Depth to Water (ft.): 6.01
Depth to Free Product: -	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ Bladder Pump
Sampling Method: ~~Dedicated Tubing~~ New Tubing Other ___

Start Purge Time: 0930 Flow Rate: 200 mL/min Pump Depth: 10.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0933	14.45	6.29	575	27	0.19	205.3	300	6.04	0.00
0936	14.83	6.29	568	22	0.12	199.8	600	6.10	0.00
0939	15.19	6.30	567	20	0.12	194.6	900	6.14	0.00
0942	15.33	6.31	565	19	0.11	191.2	1200	6.17	0.00
0945	15.41	6.32	563	19	0.10	188.5	1500	6.18	0.00



Did well dewater? Yes No Amount actually evacuated: 1500

Sampling Time: 0948 Sampling Date: 6/18/24

Sample I.D.: MW-302 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617 - DO1 (AR)	Client: GHD
Sampler: AR	Gauging Date: 6/17/24
Well I.D.: MW-303	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.73	Depth to Water (ft.): 5.78
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 1016 Flow Rate: 100 mL/min Pump Depth: 10

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1019	14.55	6.20	280	19	0.19	-48.6	300	5.84	0.0
1022	14.76	6.18	280	14	0.09	-48.4	600	5.88	0.0
1025	14.95	6.17	280	15	0.08	-48.2	900	5.89	0.0
1028	14.98	6.15	281	16	0.09	-47.9	1200	5.89	0.0
1031	14.94	6.13	280	15	0.09	-47.5	1500	5.89	0.0

Did well dewater? Yes (No) Amount actually evacuated: 1500

Sampling Time: 1035 Sampling Date: 6/18/24

Sample I.D.: MW-303 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-D01	Client: GHD
Sampler: AR	Gauging Date: 6/17/24
Well I.D.: MW-304	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.66	Depth to Water (ft.): 5.81
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: AR (Dedicated Tubing) New Tubing Other ___
Start Purge Time: ~~0939~~ 0939 Flow Rate: 100 mL/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0942	14.23	6.39	386	24	0.26	-31.7	300	5.89	0.0
0945	14.19	6.38	386	23	0.12	-33.1	600	5.95	0.0
0948	14.21	6.40	386	20	0.09	-35.4	900	5.97	0.0
0951	14.29	6.40	387	19	0.10	-39.4	1200	5.97	0.0
0954	14.34	6.42	388	19	0.09	-42.3	1500	5.97	0.0

Did well dewater? Yes (No) Amount actually evacuated: 1500
Sampling Time: 0955 Sampling Date: 6/18/24
Sample I.D.: MW-304 Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC
Equipment Blank I.D.: @ Time Duplicate I.D.:

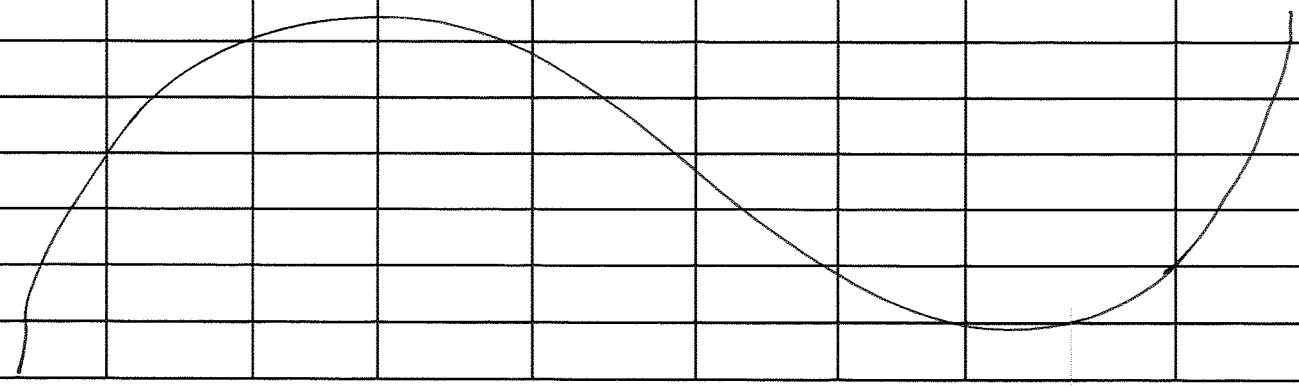
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-D01	Client: GHD
Sampler: DO	Gauging Date: 6/17/24
Well I.D.: MW-307	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 17.46	Depth to Water (ft.): 8.40
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ____

Start Purge Time: 0738 Flow Rate: 100 mL/min Pump Depth: 12.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)	PID
0741	13.42	6.71	290	31	0.24	244.2	300	8.40	0.0
0744	13.30	6.35	288	25	0.12	231.1	600	8.41	0.0
0747	13.25	6.27	288	22	0.11	226.4	900	8.43	0.0
0750	13.23	6.23	287	20	0.10	223.7	1200	8.44	0.0
0753	13.21	6.21	287	21	0.10	221.0	1500	8.44	0.0



Did well dewater? Yes (No)	Amount actually evacuated: 1500
Sampling Time: 0756	Sampling Date: 6/19/24
Sample I.D.: MW-307	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617 - ~~ART~~ DO1	Client: GHD
Sampler: AR	Gauging Date: 6/17/24
Well I.D.: MW-308	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 17.28	Depth to Water (ft.): 8.45
Depth to Free Product: ___	Thickness of Free Product (feet): ___
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump

Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0745 Flow Rate: 100 mL/min Pump Depth: 12.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0748	13.07	6.47	772	29	0.19	83.0	300	8.91	0.0
0751	13.19	6.49	772	26	0.07	84.1	600	8.94	0.0
0754	13.27	6.51	772	24	0.08	86.4	900	8.96	0.0
0757	13.25	6.50	771	23	0.08	88.7	1200	8.96	0.0
0800	13.32	6.50	772	23	0.08	90.1	1500	8.96	0.0



Did well dewater? Yes (No) Amount actually evacuated: 1500

Sampling Time: 0803 Sampling Date: 6/19/24

Sample I.D.: MW-308 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

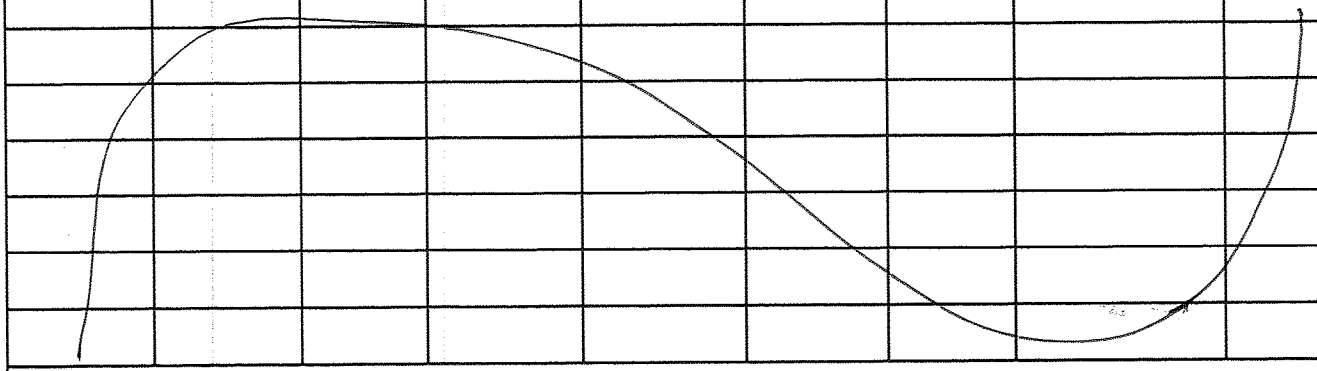
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-D01	Client: GHD
Sampler: AR	Gauging Date: 6/17/24
Well I.D.: MW-309	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.63	Depth to Water (ft.): 5.88
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0752 Flow Rate: 100 mL/min Pump Depth: 10

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0755	14.01	6.69	473	41	0.47	81.4	300	5.97	0.0
0758	14.13	6.42	461	34	0.21	73.3	1000	5.99	0.0
0801	14.12	6.26	465	31	0.15	66.1	900	6.03	0.0
0804	14.20	6.21	466	33	0.14	60.3	1200	6.02	0.0
0807	14.17	6.19	468	32	0.14	58.7	1500	6.02	0.0



Did well dewater? Yes (No) Amount actually evacuated: 1500

Sampling Time: 0810 Sampling Date: 6/18/24

Sample I.D.: MW-309 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

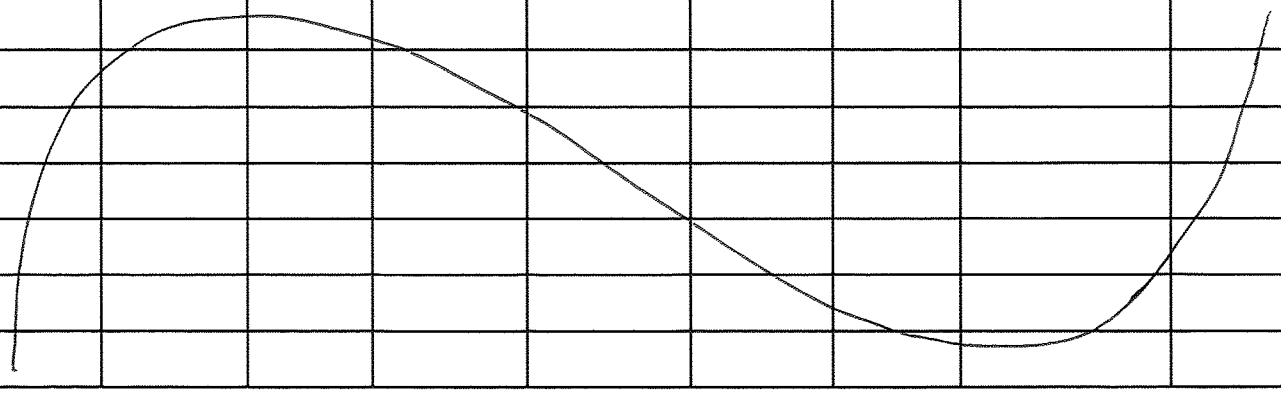
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-001	Client: GHD
Sampler: AR	Gauging Date: 6/17/24
Well I.D.: MW-310	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.59	Depth to Water (ft.): 6.71
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0902 Flow Rate: 100 mL/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0905	15.28	6.43	594	31	0.34	3.1	300	6.77	0.0
0908	15.31	6.40	597	29	0.17	-2.7	600	6.80	0.0
0911	15.45	6.35	592	23	0.08	-5.5	900	6.83	0.0
0914	15.53	6.35	590	21	0.08	-8.9	1200	6.81	0.0
0917	15.50	6.34	593	21	0.08	-12.4	1500	6.81	0.0



Did well dewater? Yes (No) Amount actually evacuated: 1500

Sampling Time: 0920 Sampling Date: 6/18/24

Sample I.D.: MW-310 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-D01	Client: GHD
Sampler: DD	Gauging Date: 6/18/24
Well I.D.: MW-311	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 14.99	Depth to Water (ft.): 7.94
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump

Sampling Method: (Dedicated Tubing) New Tubing Other ____

Start Purge Time: 1040 Flow Rate: 300 mL/min Pump Depth: 11.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1043	16.03	6.32	725	28	0.32	170.0	300	8.02	0.0
1046	18.17	6.35	736	30	0.11	161.9	600	8.07	0.0
1049	17.42	6.39	740	27	0.11	158.4	900	8.10	0.0
1052	17.49	6.42	741	25	0.11	156.0	1200	8.12	0.0
1055	17.53	6.49	743	26	0.11	153.5	1500	8.14	0.0

Did well dewater? Yes (No) Amount actually evacuated: 1500

Sampling Time: 1056 Sampling Date: 6/17/24

Sample I.D.: ~~1056DD~~ MW-311 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-D01	Client: GHD
Sampler: AR	Gauging Date: 6/17/24
Well I.D.: MW-312	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.69	Depth to Water (ft.): 7.63
Depth to Free Product: ___	Thickness of Free Product (feet): ___
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ Bladder Pump
Sampling Method: ~~Dedicated Tubing~~ New Tubing Other ___

Start Purge Time: 1048 Flow Rate: 100 mL/min Pump Depth: 11.5

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1051	15.20	6.26	494	17	0.12	-23.3	300	7.67	0.0
1054	15.24	6.27	494	15	0.10	-24.5	600	7.71	0.0
1057	15.27	6.36	495	13	0.09	-33.7	900	7.75	0.0
1100	15.24	6.37	496	12	0.08	-36.1	1200	7.75	0.0
1103	15.20	6.39	495	12	0.09	-40.2	1500	7.75	0.0

Did well dewater? Yes (No) Amount actually evacuated: 1500

Sampling Time: 1105 Sampling Date: 6/18/24

Sample I.D.: MW-312 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

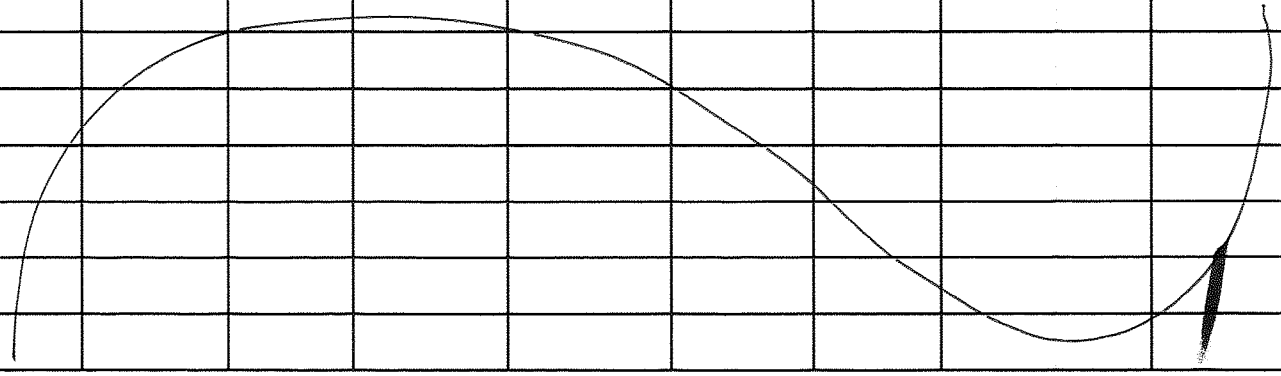
LOW FLOW WELL MONITORING DATA SHEET

Project #: ~~240617-D01~~ 240617-D01	Client: GHD
Sampler: AR	Gauging Date: 6/17/24
Well I.D.: MW-313	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 13.71	Depth to Water (ft.): 6.32
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ____

Start Purge Time: 0828 Flow Rate: 100 mL/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0831	14.27	6.36	501	55	0.31	20.7	300	6.39	0.0
0834	14.78	6.39	501	48	0.17	15.1	600	6.44	0.0
0837	14.99	6.42	500	44	0.10	11.4	900	6.44	0.0
0840	15.03	6.46	500	43	0.09	7.9	1200	6.44	0.0
0843	15.10	6.44	500	43	0.09	4.5	1500	6.44	0.0



Did well dewater? Yes (No) Amount actually evacuated: 1500

Sampling Time: 0845 Sampling Date: 6/18/24

Sample I.D.: MW-313 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-001	Client: GHD
Sampler: AR	Gauging Date: 6/19/24
Well I.D.: MW-314	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.81	Depth to Water (ft.): 7.29
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0832 Flow Rate: 100 mL/min Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0835	14.28	6.62	690	18	0.16	68.4	300	7.47	0.0
0838	14.61	6.51	696	19	0.06	59.4	600	7.51	0.0
0841	14.72	6.49	692	17	0.05	48.0	900	7.54	0.0
0844	14.79	6.47	693	16	0.05	44.9	1200	7.54	0.0
0847	14.81	6.47	693	17	0.05	40.3	1500	7.54	0.0

Did well dewater? Yes (No) Amount actually evacuated: 1500

Sampling Time: 0850 Sampling Date: 6/19/24

Sample I.D.: MW-314 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-D01	Client: GHD
Sampler: AR	Gauging Date: 6/17/24
Well I.D.: MW-315	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 14.49	Depth to Water (ft.): 7.77
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ____

Start Purge Time: 0900 Flow Rate: 100 mL/min Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0903	15.99	6.47	586	21	0.06	15.2	300	7.89	0.0
0906	15.98	6.46	585	18	0.03	-0.7	600	7.97	0.0
0909	16.04	6.47	582	16	0.02	-5.4	900	8.04	0.0
0912	16.10	6.48	582	15	0.02	-10.9	1200 +300	8.04	0.0
0915	16.15	6.47	583	15	0.02	-14.0	1500	8.04	0.0

Did well dewater? Yes (No) Amount actually evacuated: 1500

Sampling Time: 0918 Sampling Date: 6/19/24

Sample I.D.: MW-315 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-D01	Client: GHD
Sampler: DD	Gauging Date: 6/19/24
Well I.D.: ~~MW~~ TX-03A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.72	Depth to Water (ft.): 5.45
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0824 Flow Rate: 100 mL/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)	PID
0827	15.10	6.21	333	16	0.57	231.0	300	5.49	0.0
0830	15.21	6.21	335	12	0.45	228.4	600	5.51	0.0
0833	15.39	6.22	341	14	0.31	221.2	900	5.51	0.0
0836	15.33	6.23	344	13	0.29	219.0	1200	5.53	0.0
0839	15.30	6.23	345	13	0.27	218.3	1500	5.54	0.0

Did well dewater? Yes (No)	Amount actually evacuated: 1500
Sampling Time: 0842	Sampling Date: 6/19/24
Sample I.D.: TX-03A	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

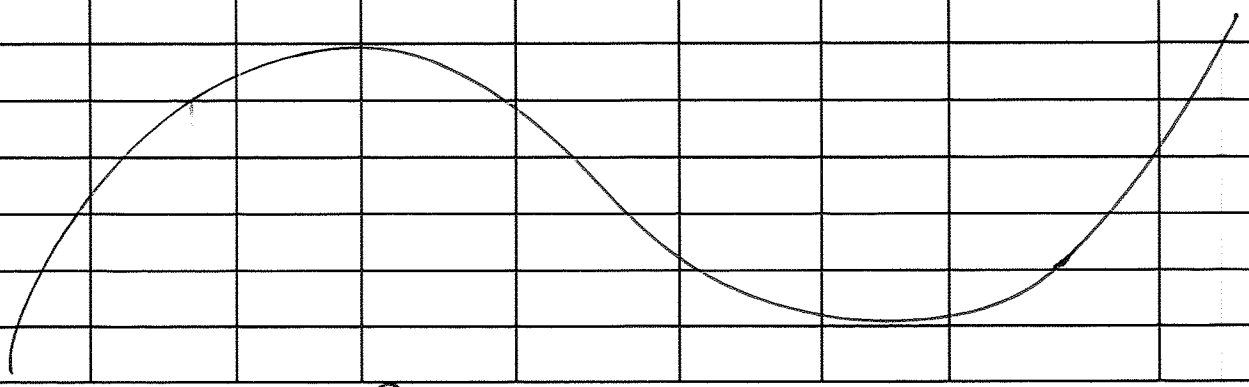
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240617-DO	Client: GHD
Sampler: ~~SH-04~~ DO	Gauging Date: 6/17/24
Well I.D.: SH-04	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 18.01	Depth to Water (ft.): 9.71
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ____

Start Purge Time: 0754 Flow Rate: 100 mL/min Pump Depth: 14'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)	PID
0757	13.67	6.87	342	24	0.34	232.3	~~600~~ 300	9.84	0.0
0800	14.19	6.45	359	20	0.23	213.6	~~1200~~ 600	9.90	0.0
0803	14.29	6.41	358	19	0.21	211.5	~~1800~~ 900	9.93	0.0
0806	14.34	6.36	355	18	0.21	208.3	~~2400~~ 1200	9.95	0.0
0809	14.42	6.34	352	19	0.20	206.1	~~3000~~ 1500	9.99	0.0



Did well dewater? Yes (No)	Amount actually evacuated: 1500
Sampling Time: 0812	Sampling Date: 6/18/24
Sample I.D.: SH-04	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:
☐ SGW FDG ☐ PIPELINE ☐ RETAIL
☐ CHEMICALS ☐ CONSULTANT ☐ LUBES
☐ TRANSPORTATION ☐ OTHER _____

Print Bill To Contact Name:	PlaNet Site or Project ID	☐ CHECK IF NO INCIDENT # APPLIES
		DATE: 6/19/24
PO #	GSAP Project ID	PAGE: 1 of 3

SAMPLING COMPANY:	LOG CODE:	SITE ADDRESS: Street and City	State	GHD Project / Task Number:
Blaine Tech Services, Inc	BTSS	2555 13th Avenue	WA	12631170

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway

TELEPHONE:	FAX	Bill To Contact E-MAIL:
(425) 327-4585		emily.blakeway@ghd.com

EDF DELIVERABLE TO (Name, Company, Office Location):	PHONE NO.:	E-MAIL	GHD Other ID
Emily Blakeway, GHD, WA	(425) 327-4585	emily.blakeway@ghd.com	

SAMPLER NAME(S) (Print): Diana Ojeda, Aimee Rike, Lydia Johnson

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☐ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	UNIT COST 8260C BTEX	UNIT COST NWTPH-Dx	NON-UNIT COST NWTPH-Gx	NON-UNIT COST Total Lead	NON-UNIT COST PAH	FIELD NOTES: Container PID Readings or Laboratory Notes
	MW-05	6/17	1202	GW	X					6	X	X	X			
	MW-104	6/19	0955		X	X				7		X	X	X		
	MW-111	6/19	1235		X					6	X	X	X			
	MW-112A	6/18	0858		X					6	X	X	X			
	MW-113	6/17	1255		X					6	X	X	X			
	MW-114	6/17	1230		X					6	X	X	X			
	MW-115	6/17	1158		X					6	X	X	X			
	MW-202	6/18	1204		X					6		X	X			
	MW-203	6/18	1148		X					6		X	X			
	MW-213	6/19	0954		X			X		8	X	X	X		X	

	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) FEDEX	6/19/24	1229
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:
☐ SGW FDG ☐ PIPELINE ☐ RETAIL
☐ CHEMICALS ☐ CONSULTANT ☐ LUBES
☐ TRANSPORTATION ☐ OTHER

Print Bill To Contact Name:	PlaNet Site or Project ID	☐ CHECK IF NO INCIDENT # APPLIES
		DATE: 6/19/24
PO #	**GSAP Project ID**	PAGE: 2 of 3

SAMPLING COMPANY:	LOG CODE:	SITE ADDRESS: Street and City	State	GHD Project / Task Number:
Blaine Tech Services, Inc	BTSS	2555 13th Avenue	WA	12631170

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway

TELEPHONE:	FAX	Bill To Contact E-MAIL:
(425) 327-4585		emily.blakeway@ghd.com

EDF DELIVERABLE TO (Name, Company, Office Location):	PHONE NO.:	E-MAIL:	GHD Other ID
Emily Blakeway, GHD, WA	(425) 327-4585	emily.blakeway@ghd.com	

SAMPLER NAME(S) (Print): Diana Ojeda, Aimee Rike, Lydia Johnson

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C°	Cooler #1	Cooler #2	Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED
- ☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	UNIT COST 8260C BTEX	UNIT COST NWTPH-Dx	NON-UNIT COST NWTPH-Gx	NON-UNIT COST Total Lead	NON-UNIT COST PAH	Container PID Readings or Laboratory Notes
	MW-214	6/19	0923	GW	X			X		8	X	X	X		X	
	MW-301	6/18	1031		X					4	X		X			
	MW-302	6/18	0948		X					4	X		X			
	MW-303	6/18	1035		X					4	X		X			
	MW-304	6/18	0955		X					4	X		X			
	MW-307	6/19	0756		X					6	X	X	X			
	MW-308	6/19	0803		X					4	X		X			
	MW-309	6/18	0810		X					4	X		X			
	MW-310	6/18	0920		X					4	X		X			
	MW-311	6/17	1058		X					4	X		X			

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		6/19/24	1229

Version: 14Dec15

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:
☐ SGW FDG ☐ PIPELINE ☐ RETAIL
☐ CHEMICALS ☐ CONSULTANT ☐ LUBES
☐ TRANSPORTATION ☐ OTHER _____

Print Bill To Contact Name:	PlaNet Site or Project ID	☐ CHECK IF NO INCIDENT # APPLIES
		DATE: 6/19/24
PO #	GSAP Project ID	PAGE: 3 of 3

SAMPLING COMPANY:	LOG CODE:	SITE ADDRESS: Street and City	State	GHD Project / Task Number:
Blaine Tech Services, Inc	BTSS	2555 13th Avenue	WA	12631170

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway

TELEPHONE: (425) 327-4585 | FAX: | Bill To Contact E-MAIL: emily.blakeway@ghd.com

EDF DELIVERABLE TO (Name, Company, Office Location): Emily Blakeway, GHD, WA | PHONE NO.: (425) 327-4585 | E-MAIL: emily.blakeway@ghd.com | GHD Other ID:

SAMPLER NAME(S) (Print): Diana Ojeda, Aimee Kike, Lydia Johnson

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☐ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	UNIT COST: 8260C BTEX	NWTPH-Dx	NON-UNIT COST: NWTPH-Gx	Total Lead	PAH
	MW-312	6/18	1105	GW	X					4	X		X		
	MW-313	6/18	0845		X					6	X	X	X		
	MW-314	6/19	0850		X					6	X	X	X		
	MW-315	6/19	0918		X					6	X	X	X		
	TX-03A	6/19	0842		X					4	X		X		
	SH-04	6/18	0812		X					6	X	X	X		
	TB-1	6/19	0900		X					2	X		X		

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Diana Ojeda	FEDEX	6/19/24	1229
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 126311 70

ADDRESS 2555 13th Ave SW

DATE: 6-17-24

CITY & STATE Seattle WA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
MW-201	(Standpipe)	Flush	(G)	P	Size (inch) (2)	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-202	(Standpipe)	Flush	(G)	P	Size (inch) (2)	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-203	Standpipe	(Flush)	(G)	P	Size (inch) (2)	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-204	(Standpipe)	Flush	(G)	P	Size (inch) (2)	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-206A	Standpipe	Flush	(G)	P	Size (inch) (2)	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-101	(Standpipe)	Flush	(G)	P	Size (inch) (2)	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-102	(Standpipe)	Flush	(G)	P	Size (inch) (2)	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-301	Standpipe	(Flush)	(G)	P	Size (inch) (2)	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-302	Standpipe	(Flush)	(G)	P	Size (inch) (2)	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-303	Standpipe	(Flush)	(G)	P	Size (inch) (2)	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-304	Standpipe	(Flush)	(G)	P	Size (inch) (2)	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
TOTAL # CAPS REPLACED = (0)										(0) = TOTAL # OF LOCKS REPLACED								

Condition of Soil Boring Patches or Abandoned Monitoring Wells	G	P	(N/A)	If POOR, Borings/Well IDs or Location Description		Y	(N)	

Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted	Photos of Condition		Repair Date and PM Initials
NA		G	P	(N/A)	G	P	(N/A)	G	P	(N/A)	Y	N	(N/A)		Y	(N)	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
	Y	N	(N/A)	Y	N	(N/A)	G	P	(N/A)	Y	N	Y	N	(N/A)		Y	(N)	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Diana Ojeda BTS

Print or type Name of Field Personnel & Consultant Company

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 126311170

ADDRESS 2555 13th Ave SW

DATE: 6-17-24

CITY & STATE Seattle WA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
MW-307	(Standpipe)	Flush	(G)	P	Size (inch) 2	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-308	(Standpipe)	Flush	(G)	P	Size (inch) 2	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-309	Standpipe	(Flush)	(G)	P	Size (inch) 2	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-310	Standpipe	(Flush)	(G)	P	Size (inch) 2	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-311	Standpipe	(Flush)	(G)	P	Size (inch) 2	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-312	Standpipe	(Flush)	(G)	P	Size (inch) 2	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-313	Standpipe	(Flush)	(G)	P	Size (inch) 2	(Y)	N	(G)	R	G	R	(NL)	(G)	P		Y	(N)	
MW-314	Standpipe	(Flush)	(G)	P	Size (inch) 2	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
MW-315	Standpipe	(Flush)	(G)	P	Size (inch) 2	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
TTES-MW-1	(Standpipe)	Flush	(G)	P	Size (inch) 4	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
TX-03A	Standpipe	(Flush)	(G)	P	Size (inch) 2	(Y)	N	(G)	R	(G)	R	NL	(G)	P		Y	(N)	
TOTAL # CAPS REPLACED =								(0)			(0)	= TOTAL # OF LOCKS REPLACED						

Condition of Soil Boring Patches or Abandoned Monitoring Wells	G	P	N/A	If POOR, Borings/Well IDs or Location Description		Photos of Condition		Repair Date and PM Initials
						Y	(N)	

Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted	Photos of Condition		Repair Date and PM Initials
NA		G	P	(N/A)	G	P	(N/A)	G	P	(N/A)	Y	N	(N/A)		Y	(N)	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
	Y	N	(N/A)	Y	N	(N/A)	G	P	(N/A)	Y	N	Y	N	(N/A)		Y	(N)	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Diana Ojeda BTS

Print or type Name of Field Personnel & Consultant Company

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 12631170

ADDRESS 2555 18th Ave SW

DATE: 6-17-24

CITY & STATE Seattle WA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
MW-05	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-211	Standpipe	Flush	G	P	Size (inch) 4	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-112A	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
SH-04	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-104	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-113	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-114	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-115	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-213	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-214	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-208	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
TOTAL # CAPS REPLACED = 1										0 = TOTAL # OF LOCKS REPLACED								

Condition of Soil Boring Patches or Abandoned Monitoring Wells	G	P	N/A	If POOR, Borings/Well IDs or Location Description		Y	N	
			N/A				N	

Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted	Photos of Condition		Repair Date and PM Initials
NA		G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A		Y	N	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Diana Ojeda BTS

Print or type Name of Field Personnel & Consultant Company

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 126 3170

ADDRESS 2555 13th Ave SW

DATE: 6-17-24

CITY & STATE Seattle WA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size						Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
MW-210	Standpipe	Flush	G	P	Size (inch) 2		Y	N	G	R	G	R	NL	G	P		Y	N	
MW-212	Standpipe	Flush	G	P	Size (inch) 4		Y	N	G	R	G	R	NL	G	P		Y	N	
MW-111	Standpipe	Flush	G	P	Size (inch) 2		Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)		Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)		Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)		Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)		Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)		Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)		Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)		Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)		Y	N	G	R	G	R	NL	G	P		Y	N	

TOTAL # CAPS REPLACED = 0 | 0 = TOTAL # OF LOCKS REPLACED

Condition of Soil Boring Patches or Abandoned Monitoring Wells	G	P	N/A	If POOR, Borings/Well IDs or Location Description	Photos of Condition		Repair Date and PM Initials
			N/A		Y	N	

Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted	Photos of Condition		Repair Date and PM Initials
NA		G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A		Y	N	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Diana Ojeda BTS

Print or type Name of Field Personnel & Consultant Company

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME Shell Harbor Island Terminal				PROJECT NUMBER 240617-001			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
HANNA	07460037101	6/17/24 @ 0549	pH 4 7 10	4.06 7.02 9.93	✓	19.6	DO
			Cond 3900 ORP 237.5 DO 100	3905 238.1 107.0	✓	19.7	DO
HANNA	07460037101	6/18/24 @ 0533	pH 4 7 10	4.06 7.05 9.97	✓	19.7	DO
			Cond 3900 ORP 237.5 DO 100	3903 237.9 106.2	✓	19.7	DO
HANNA	07460037101	6/18/24 @ 0539	pH 4 7 10	4.05 7.06 9.94	✓	19.7	DO
			Cond 3900 ORP 237.5 DO 100	3903 238.8 108.0	✓	19.8	DO

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	Shell Harbor Island Term.			PROJECT NUMBER	240617-D01		
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
Hanna	08020054101	6/18/24 @ 0530	pH 4.0 7.0 10.0	3.97 6.94 9.96	✓	20.0	AR
			Cond 3900 ORP 237.5 DO 100	3894 238.2 97.4	✓	20.0	AR
Hanna	08020054101	6/19/24 @ 0530	pH 4.0 7.0 10.0	3.97 6.98 9.95	✓	20.1	AR
			Cond 3900 ORP 237.5 DO 100	3903 238.4 96.9	✓	20.1	AR

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME Shell Harbor Island Terminal				PROJECT NUMBER 240617-D01			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
HANNA	07460003o1	6-17-24 @ 0540	pH 4 7 10	3.96 7.02 10.07	✓	20.1	LJ
			cond 3400 ORP 237.7 DO 100	3394 239.1 97.8	✓	20.1	LJ

HASP Acknowledgment Sheet

Project Name: Shell Harbor Island Terminal Project Number: 240617-001

This is to certify that I have received a pre-entry briefing regarding this HASP, and I understand its contents. My failure to follow and comply with the requirements contained in this plan may result in disciplinary action and/or termination.

Print Name	Signature	Date
Diana Ojeda		6/17/24
Lydia Johnson		6/17/24
Diana Ojeda		6/18/24
Lydia Johnson		6/18/24
Aimee Rike		6/18/24
Diana Ojeda		6/19/24
Lydia Johnson		6/19/24
Aimee Rike		6/19/24

	GHD Shell SGW (US) Daily Tailgate Meeting & Job Clearance Form	Issue: 1/2/2011 Revision 11: October 2016 Do NOT pre-populate any field.

Job Location:	2555 13th Ave SW Seattle	Date:	6-17-24
GHD Site Supervisor:	Dina Ojeda	GHD PM:	Wyatt Copeland

List activities to be performed today:	Groundwater monitoring
Permitted Activities (specific permit to be competed):	☒ Not Applicable ☐ Confined Space Entry ☐ Excavation/Trenching ☐ Hot Work ☐ Hoisting/Rigging (any lifting with equipment, excluding drill rigs) ☐ Natural Gas System Maintenance

The above Permit-required activities require onsite GHD supervision unless approved by Regional Operations.

Muster Point:	outside Shell operations office	Spill Kit Location:	Van
First Aid Kit Location:	Van	Fire Extinguisher Location:	Van
Emergency cut-off switches:	N/A	Designated cell phone use area(s):	Passenger seat of van

Has the Site Manager/Owner been notified of the work activities and/or participated in a pre-work site walk?	☒ Yes ☐ No ☐ N/A
Is a fuel delivery scheduled for today? If yes, plan to Stop Work during fuel delivery.	☐ Yes ☒ No ☐ N/A
Has a site walk been performed to identify additional hazards?	☒ Yes ☐ No*
Have all personnel reviewed and understand the site specific HASP?	☒ Yes ☐ No*
Does each activity have a Job Safety Analysis (JSA)?	☒ Yes ☐ No*
Does each subcontractor have JSAs for their activities?	☒ Yes ☐ No* ☐ N/A
Have JSAs been reviewed by the work team and newly identified hazards been added to the JSA?	☒ Yes ☐ No*
Per our lone worker procedure, is each employee either accompanied by or in communications with another?	☒ Yes ☐ No* ☐ N/A
Has a Safe Lift Plan been completed and reviewed/approved by a GHD Subject Matter Expert?	☒ Yes ☐ No* (N/A)
Have all members of the work team confirmed understanding of the work, hazards, and controls/ mitigation?	☒ Yes ☐ No*
Has each person on the work team discussed all hazards and mitigation measures associated with any task which will require their feet to leave the ground?	☐ Yes ☒ No* ☐ N/A
Have work areas been properly cordoned-off to protect workers, site staff, and the public?	☒ Yes ☐ No* ☐ N/A
Have equipment checks been completed, documented, and reviewed?	☒ Yes ☐ No* ☐ N/A
Have there been any equipment modifications made by subcontractor(s)? Is yes, discuss modifications.	☐ Yes ☒ No ☐ N/A
Do all members of the work team have API Safety Keys (GHD excluded)?	☒ Yes ☐ No* ☐ N/A
Do all members of the work team have a Shell "Life Saving Rules" Training card?	☒ Yes ☐ No*
Do all site workers understand injury/ intervention reporting requirements including immediately notifying the GHD Site Supervisor of any injury, near miss, unsafe condition, hazard observation, or release?	☒ Yes ☐ No*
If permits are required, have they been reviewed and permit conditions understood by the Team?	☒ Yes ☐ No* ☐ N/A
If drilling, did driller physically point out all pinch points to entire team (GHD and all subs)?	☐ Yes ☐ No* ☒ N/A
If drilling, has the driller & crew agreed the audible and visible signals for "all clear" prior to engaging controls?	☐ Yes ☐ No* ☒ N/A

** If No, then work cannot be performed until corrective action is completed and documented.*

Title of GHD JSAs reviewed today:	Groundwater Sampling, Waste control, Second Tech Security overwatch	Title of Subcontractor's JSAs reviewed today:	—

All personnel are wearing (regardless of activity):	☒ Hard Hat ☒ Safety Glasses ☒ Safety Vest ☒ Steel-Toed Boots ☒ Gloves (appropriate for task) See JSA for additional task specific PPE requirements.

Stop Work Authority & Obligation

* All employees will stop the job any time anyone is concerned or uncertain about safety.
* All employees will stop the job if anyone identifies a hazard or additional mitigation not recorded on the JSA.
* All employees will be alerted to any changes in personnel or conditions at the worksite.
* All employees will stop the job and reassess a task, hazards, and mitigations, and then amend the JSA as needed.

Other Items Discussed Today:

Circle the Life Saving Rule icons that are applicable to the work/activities that will take place today:

BYPASSING SAFETY CONTROLS | CONFINED SPACE | DRIVING | ENERGY ISOLATION | HOT WORK | LINE OF FIRE | SAFE MECHANICAL LIFTS | WORK AUTHORIZATION | WORKING AT HEIGHTS

	GHD Shell SGW (US) Daily Tailgate Meeting & Job Clearance Form	Issue: January 2, 2011 Revision 11: October 2016 Do NOT pre-populate any field.

SITE WORKERS (including GHD Contractors and Subcontractors): By signing here, you are stating the following:

* You understand that compliance with Shell's Life Saving Rules is mandatory and that failing to follow to them may result in termination.
* You have been involved in reviewing the JSAs and understand the hazards and control measures associated with each task you are about to perform.
* You understand the permit to work requirements applicable to the work you are about to perform (if it includes permitted activities).
* You understand the Shell Life Saving Rules and are aware that tasks or work that is not risk-assessed shall not be performed.
* You are aware of your authority and obligation to 'Stop Work'.

I arrived and departed fit for duty:

* You are physically and mentally fit for duty,
* You are not under the influence of any type of medication, drugs, or alcohol that could affect your ability to work safely.
* You are aware of your responsibility to immediately report any illness, injury (regardless of where or when it occurred), or fatigue issue you may have to the GHD Site Supervisor.
* You will sign-out uninjured unless you have otherwise informed the GHD Site Supervisor.

Print Name & Company	Signature	Initials & Sign In Time	Initials & Sign Out Time
Lydia Johnson BTS	LJ	0630 In & Fit LJ	1430 Out & Fit LJ
Diana Ojeda BTS		0630 In & Fit DO	1430 Out & Fit DO
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit

(Attach additional Site Worker sign-in/out sheets if needed)

PERSONAL SAFETY COMMITMENT (Attach additional Personal Safety Commitment sheets, if needed)

Print Name	"I will personally commit to do the following to positively improve site safety today":
Lydia Johnson	I will properly wear all my PPE
Diana Ojeda	I will wear all my PPE Properly

SITE VISITORS (attach additional Site Visitor sign-in/out sheets if needed)

Print Name	Company Name	Arrival Time	Departure Time	Signature

SITE REPRESENTATIVE Sign In/Out (operating sites only, and signature must be requested. If the operator refuses to sign, note this on the Form)

Sign In: *I have discussed this Job Clearance Form with the contractor*		Sign Out: *I have discussed this Job Clearance Form with the contractor*	
Site Representative Name	Site Representative Signature	Site Representative Name	Site Representative Signature
—	—	—	—

TWILIGHT TOOL BOX TALK (Complete the following once field activities for the day have been concluded):

Were there any Incidents, Near Misses, Potential Incidents, or Positive Interventions today?	☐ Yes ☑ No	If yes, provide details:
Were there any 'Stop Work' interventions?	☐ Yes ☑ No	If yes, provide details:
Were there any areas for improvement noted?	☐ Yes ☑ No	If yes, provide details:
Is the Site Manager/Owner happy with the way you left the site (including the location of waste drums and/or equipment)?	☐ Yes ☐ No	If no, provide details: N/a
I certify that the above information is true and the job site is being left in a safe condition	☑ Yes ☑ No	GHD Site Supervisor Signature:

	GHD Shell SGW (US) Daily Tailgate Meeting & Job Clearance Form	Issue: 1/2/2011 Revision 11: October 2016 Do NOT pre-populate any field.

Job Location:	2555 15th Ave SW Seattle	Date:	6-18-24
GHD Site Supervisor:	Dana Ojeda	GHD PM:	Wyatt Copeland

List activities to be performed today:	groundwater Monitoring
Permitted Activities (specific permit to be competed):	☒ Not Applicable ☐ Confined Space Entry ☐ Excavation/Trenching ☐ Hot Work ☐ Hoisting/Rigging (any lifting with equipment, excluding drill rigs) ☐ Natural Gas System Maintenance

The above Permit-required activities require onsite GHD supervision unless approved by Regional Operations.

Muster Point:	outside Shell operations office	Spill Kit Location:	Van
First Aid Kit Location:	Van	Fire Extinguisher Location:	Van
Emergency cut-off switches:	N/A	Designated cell phone use area(s):	Van passenger seat

Has the Site Manager/Owner been notified of the work activities and/or participated in a pre-work site walk?	☒ Yes ☐ No ☐ N/A
Is a fuel delivery scheduled for today? If yes, plan to Stop Work during fuel delivery.	☐ Yes ☒ No ☐ N/A
Has a site walk been performed to identify additional hazards?	☒ Yes ☐ No*
Have all personnel reviewed and understand the site specific HASP?	☒ Yes ☐ No*
Does each activity have a Job Safety Analysis (JSA)?	☒ Yes ☐ No*
Does each subcontractor have JSAs for their activities?	☒ Yes ☐ No* ☐ N/A
Have JSAs been reviewed by the work team and newly identified hazards been added to the JSA?	☒ Yes ☐ No*
Per our lone worker procedure, is each employee either accompanied by or in communications with another?	☒ Yes ☐ No* ☐ N/A
Has a Safe Lift Plan been completed and reviewed/approved by a GHD Subject Matter Expert?	☒ Yes ☐ No* (N/A)
Have all members of the work team confirmed understanding of the work, hazards, and controls/ mitigation?	☒ Yes ☐ No*
Has each person on the work team discussed all hazards and mitigation measures associated with any task which will require their feet to leave the ground?	☐ Yes ☒ No* ☐ N/A
Have work areas been properly cordoned-off to protect workers, site staff, and the public?	☒ Yes ☐ No* ☐ N/A
Have equipment checks been completed, documented, and reviewed?	☒ Yes ☐ No* ☐ N/A
Have there been any equipment modifications made by subcontractor(s)? Is yes, discuss modifications.	☐ Yes ☒ No ☐ N/A
Do all members of the work team have API Safety Keys (GHD excluded)?	☒ Yes ☐ No* ☐ N/A
Do all members of the work team have a Shell "Life Saving Rules" Training card?	☒ Yes ☐ No*
Do all site workers understand injury/ intervention reporting requirements including immediately notifying the GHD Site Supervisor of any injury, near miss, unsafe condition, hazard observation, or release?	☒ Yes ☐ No*
If permits are required, have they been reviewed and permit conditions understood by the Team?	☒ Yes ☐ No* ☐ N/A
If drilling, did driller physically point out all pinch points to entire team (GHD and all subs)?	☐ Yes ☐ No* ☒ N/A
If drilling, has the driller & crew agreed the audible and visible signals for "all clear" prior to engaging controls?	☐ Yes ☐ No* ☒ N/A

** If No, then work cannot be performed until corrective action is completed and documented.*

Title of GHD JSAs reviewed today:	Groundwater Sampling, Traffic control, Second tech Security overview	Title of Subcontractor's JSAs reviewed today:	—

All personnel are wearing (regardless of activity):	☒ Hard Hat ☒ Safety Glasses ☒ Safety Vest ☒ Steel-Toed Boots ☒ Gloves (appropriate for task) See JSA for additional task specific PPE requirements.

Stop Work Authority & Obligation

* All employees will stop the job any time anyone is concerned or uncertain about safety.
* All employees will stop the job if anyone identifies a hazard or additional mitigation not recorded on the JSA.
* All employees will be alerted to any changes in personnel or conditions at the worksite.
* All employees will stop the job and reassess a task, hazards, and mitigations, and then amend the JSA as needed.

Other Items Discussed Today:

Circle the Life Saving Rule Icons that are applicable to the work/activities that will take place today:



	GHD Shell SGW (US) Daily Tailgate Meeting & Job Clearance Form	Issue: January 2, 2011 Revision 11: October 2016 Do NOT pre-populate any field.

SITE WORKERS (including GHD Contractors and Subcontractors): By signing here, you are stating the following:

* You understand that compliance with Shell's Life Saving Rules is mandatory and that failing to follow to them may result in termination.
* You have been involved in reviewing the JSAs and understand the hazards and control measures associated with each task you are about to perform.
* You understand the permit to work requirements applicable to the work you are about to perform (if it includes permitted activities).
* You understand the Shell Life Saving Rules and are aware that tasks or work that is not risk-assessed shall not be performed.
* You are aware of your authority and obligation to 'Stop Work'.

I arrived and departed fit for duty:

* You are physically and mentally fit for duty,
* You are not under the influence of any type of medication, drugs, or alcohol that could affect your ability to work safely.
* You are aware of your responsibility to immediately report any illness, injury (regardless of where or when it occurred), or fatigue issue you may have to the GHD Site Supervisor.
* You will sign-out uninjured unless you have otherwise informed the GHD Site Supervisor.

Print Name & Company	Signature	Initials & Sign In Time	Initials & Sign Out Time
Lydia Johnson	Lydia Johnson	0630 In & Fit LJ	1300 Out & Fit LJ
Aimee Rice BTS	Aimee Rice	0620 In & Fit AR	1300 Out & Fit AR
Diana Ojeda	Diana Ojeda	0620 In & Fit DO	1300 Out & Fit DO
		In & Fit	Out & Fit
		In & Fit	Out & Fit

(Attach additional Site Worker sign-in/out sheets if needed)

PERSONAL SAFETY COMMITMENT (Attach additional Personal Safety Commitment sheets, if needed)

Print Name	"I will personally commit to do the following to positively improve site safety today":
Lydia Johnson	I will Properly wear all my PPE
Aimee Rice	I will wear proper PPE on Site
Diana Ojeda	I will wear all my PPE properly

SITE VISITORS (attach additional Site Visitor sign-in/out sheets if needed)

Print Name	Company Name	Arrival Time	Departure Time	Signature

SITE REPRESENTATIVE Sign In/Out (operating sites only, and signature must be requested. If the operator refuses to sign, note this on the Form)

Sign In: *I have discussed this Job Clearance Form with the contractor*		Sign Out: *I have discussed this Job Clearance Form with the contractor*	
Site Representative Name	**Site Representative Signature**	**Site Representative Name**	**Site Representative Signature**
—	—	—	—

TWILIGHT TOOL BOX TALK (Complete the following once field activities for the day have been concluded):

Were there any Incidents, Near Misses, Potential Incidents, or Positive Interventions today?	☐ Yes ☒ No	If yes, provide details:
Were there any 'Stop Work' interventions?	☐ Yes ☒ No	If yes, provide details:
Were there any areas for improvement noted?	☐ Yes ☒ No	If yes, provide details:
Is the Site Manager/Owner happy with the way you left the site (including the location of waste drums and/or equipment)?	☐ Yes ☐ No	If no, provide details: n/a
I certify that the above information is true and the job site is being left in a safe condition	☑ Yes ☐ No	GHD Site Supervisor Signature: Diana Ojeda

	GHD Shell SGW (US) **Daily Tailgate Meeting & Job Clearance Form**	Issue: 1/2/2011 Revision 11: October 2016 Do NOT pre-populate any field.

Job Location:	2555 13th Ave SW Seattle	Date:	6-19-24
GHD Site Supervisor:	Dina Ojeda	GHD PM:	Wyatt Copeland

List activities to be performed today:	groundwater monitoring
Permitted Activities (specific permit to be competed):	☒ Not Applicable ☐ Confined Space Entry ☐ Excavation/Trenching ☐ Hot Work ☐ Hoisting/Rigging (any lifting with equipment, excluding drill rigs) ☐ Natural Gas System Maintenance

The above Permit-required activities require onsite GHD supervision unless approved by Regional Operations.

Muster Point:	Outside Shell operating office	Spill Kit Location:	Van
First Aid Kit Location:	Van	Fire Extinguisher Location:	Van
Emergency cut-off switches:	N/A	Designated cell phone use area(s):	Van passenger seat

Has the Site Manager/Owner been notified of the work activities and/or participated in a pre-work site walk?	☒ Yes ☐ No ☐ N/A
Is a fuel delivery scheduled for today? If yes, plan to Stop Work during fuel delivery.	☐ Yes ☒ No ☐ N/A
Has a site walk been performed to identify additional hazards?	☒ Yes ☐ No*
Have all personnel reviewed and understand the site specific HASP?	☒ Yes ☐ No*
Does each activity have a Job Safety Analysis (JSA)?	☒ Yes ☐ No*
Does each subcontractor have JSAs for their activities?	☒ Yes ☐ No* ☐ N/A
Have JSAs been reviewed by the work team and newly identified hazards been added to the JSA?	☒ Yes ☐ No*
Per our lone worker procedure, is each employee either accompanied by or in communications with another?	☒ Yes ☐ No* ☐ N/A
Has a Safe Lift Plan been completed and reviewed/approved by a GHD Subject Matter Expert?	☐ Yes ☐ No* (N/A)
Have all members of the work team confirmed understanding of the work, hazards, and controls/ mitigation?	☒ Yes ☐ No*
Has each person on the work team discussed all hazards and mitigation measures associated with any task which will require their feet to leave the ground?	☒ Yes ☐ No* ☐ N/A
Have work areas been properly cordoned-off to protect workers, site staff, and the public?	☒ Yes ☐ No* ☐ N/A
Have equipment checks been completed, documented, and reviewed?	☒ Yes ☒ No* ☐ N/A
Have there been any equipment modifications made by subcontractor(s)? Is yes, discuss modifications.	☒ Yes ☒ No ☐ N/A
Do all members of the work team have API Safety Keys (GHD excluded)?	☒ Yes ☐ No* ☐ N/A
Do all members of the work team have a Shell "Life Saving Rules" Training card?	☒ Yes ☐ No*
Do all site workers understand injury/ intervention reporting requirements including immediately notifying the GHD Site Supervisor of any injury, near miss, unsafe condition, hazard observation, or release?	☒ Yes ☐ No*
If permits are required, have they been reviewed and permit conditions understood by the Team?	☒ Yes ☐ No* ☐ N/A
If drilling, did driller physically point out all pinch points to entire team (GHD and all subs)?	☐ Yes ☐ No* ☒ N/A
If drilling, has the driller & crew agreed the audible and visible signals for "all clear" prior to engaging controls?	☐ Yes ☐ No* ☒ N/A

** If No, then work cannot be performed until corrective action is completed and documented.*

Title of GHD JSAs reviewed today:	groundwater sampling, traffic control, Shell tech security overview	Title of Subcontractor's JSAs reviewed today:	—

All personnel are wearing (regardless of activity):	☒ Hard Hat ☒ Safety Glasses ☒ Safety Vest ☒ Steel-Toed Boots ☒ Gloves (appropriate for task) See JSA for additional task specific PPE requirements.

Stop Work Authority & Obligation

* All employees will stop the job any time anyone is concerned or uncertain about safety.
* All employees will stop the job if anyone identifies a hazard or additional mitigation not recorded on the JSA.
* All employees will be alerted to any changes in personnel or conditions at the worksite.
* All employees will stop the job and reassess a task, hazards, and mitigations, and then amend the JSA as needed.

Other Items Discussed Today:

Circle the Life Saving Rule Icons that are applicable to the work/activities that will take place today:



	GHD Shell SGW (US) Daily Tailgate Meeting & Job Clearance Form	Issue: January 2, 2011 Revision 11: October 2016 Do NOT pre-populate any field.

SITE WORKERS (including GHD Contractors and Subcontractors): By signing here, you are stating the following:

* You understand that compliance with Shell's Life Saving Rules is mandatory and that failing to follow to them may result in termination.
* You have been involved in reviewing the JSAs and understand the hazards and control measures associated with each task you are about to perform.
* You understand the permit to work requirements applicable to the work you are about to perform (if it includes permitted activities).
* You understand the Shell Life Saving Rules and are aware that tasks or work that is not risk-assessed shall not be performed.
* You are aware of your authority and obligation to 'Stop Work'.

I arrived and departed fit for duty:

* You are physically and mentally fit for duty,
* You are not under the influence of any type of medication, drugs, or alcohol that could affect your ability to work safely.
* You are aware of your responsibility to immediately report any illness, injury (regardless of where or when it occurred), or fatigue issue you may have to the GHD Site Supervisor.
* You will sign-out uninjured unless you have otherwise informed the GHD Site Supervisor.

Print Name & Company	Signature	Initials & Sign In Time	Initials & Sign Out Time
Lydia Johnson BTS	Lydia Johnson	0630 In & Fit LJ	1300 Out & Fit LJ
Aimee Rike BTS		0630 In & Fit AR	1300 Out & Fit AR
Diana Ojeda BTS	Diana Ojeda	0630 In & Fit DO	1300 Out & Fit DO
		In & Fit	Out & Fit
		In & Fit	Out & Fit

(Attach additional Site Worker sign-in/out sheets if needed)

PERSONAL SAFETY COMMITMENT (Attach additional Personal Safety Commitment sheets, if needed)

Print Name	"I will personally commit to do the following to positively improve site safety today":
Lydia Johnson	I will Properly wear all my PPE
Aimee Rike	I will wear proper PPE on site
Diana Ojeda	I will wear wear all my PPE properly

SITE VISITORS (attach additional Site Visitor sign-in/out sheets if needed)

Print Name	Company Name	Arrival Time	Departure Time	Signature

SITE REPRESENTATIVE Sign In/Out (operating sites only, and signature must be requested. If the operator refuses to sign, note this on the Form)

Sign In: *I have discussed this Job Clearance Form with the contractor*		Sign Out: *I have discussed this Job Clearance Form with the contractor*	
Site Representative Name	Site Representative Signature	Site Representative Name	Site Representative Signature
—	—	—	—

TWILIGHT TOOL BOX TALK (Complete the following once field activities for the day have been concluded):

Were there any Incidents, Near Misses, Potential Incidents, or Positive Interventions today?	☐ Yes ☑ No	If yes, provide details:
Were there any 'Stop Work' interventions?	☐ Yes ☑ No	If yes, provide details:
Were there any areas for improvement noted?	☐ Yes ☑ No	If yes, provide details:
Is the Site Manager/Owner happy with the way you left the site (including the location of waste drums and/or equipment)?	☐ Yes ☐ No	If no, provide details: n/a
I certify that the above information is true and the job site is being left in a safe condition	☑ Yes ☐ No	GHD Site Supervisor Signature: Diana Ojeda

BLAINE TECH SERVICES **JSA** **Groundwater Monitoring at Shell Site / Facility**	Date: 6/17/24 Location: 2555 13th Ave SW, Seattle	Onsite Work Crew: BO, LJ, AR

PPE -- Personal Protective Equipment	Required (Y/N)	PPE -- Personal Protective Equipment	Required (Y/N)
Steel Toed Safety Shoes	(Y) / N	Respirator	Y / (N)
Hi-Viz Safety Vest (Class 2)	(Y) / N	Hard Hat	(Y) / N
Safety Glasses	(Y) / N	Rain Gear	Y / (N)
Goggles	Y / (N)	Snake Gators	Y / (N)
Face Shield	Y / (N)	Tyvek Coveralls	Y / (N)
Nitrile Gloves	(Y) / N	Fire Resistant Clothing (FRC)	(Y) / (N) BO
Kevlar Gloves	(Y) / N	Knee Pads	Y / (N)
Rubber/Neoprene Gloves	Y / (N)	Hi-Viz Safety Jacket or Pants (Class 3)	Y / (N)
Hearing Protection	Y / (N)	Other (list)	Y / (N)

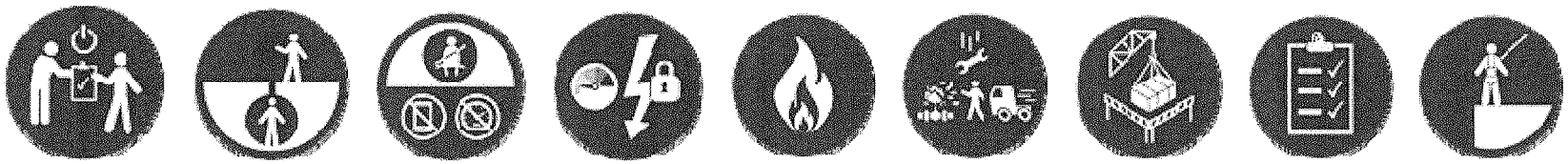
HAZARD ASSESSMENTS:

Whenever you arrive at a new job site, a **Hazard Assessment** is required to identify and evaluate potential hazards. **Hazard Assessments** must be performed prior to each move you make with your vehicle and after you arrive at each new work location or well. **Hazard Assessments** are also required whenever site conditions change. Technicians should maintain a high level of **Situational Awareness**, frequently assessing their safety.

STOP WORK AUTHORITY:

If, at any time, you feel that the work cannot be performed safely, you must **Stop Work and Report** to your Blaine Tech Project Manager.

Adherence to **9 Life Saving Rules** (LSRs) is **REQUIRED**:



My signature *below indicates that I have read this JSA; that I understand the hazards and safe work practices associated with the tasks; and that all requirements and conditions listed above have been met and verified prior to starting the work.*

Name/Signature Diana Ojeda / Diana Ojeda	**Date/Time** 6/17/24 @ 0530
Name/Signature Lydia Johnson / Lydia Johnson	**Date/Time** 6/17/24 @ 0530
Name/Signature Diana Ojeda / Diana Ojeda	**Date/Time** 6/18/24 @ 0530
Name/Signature Lydia Johnson / Lydia Johnson	**Date/Time** 6/18/24 @ 0530
Name/Signature Aimee Rike /	**Date/Time** 6/18/24 @ 0530
Name/Signature Diana Ojeda / Diana Ojeda	**Date/Time** 6/19/24 @ 0530
Name/Signature Lydia Johnson / Lydia Johnson	**Date/Time** 6/19/24 @ 0530
Aimee Rike /	6/19/24 @ 0535

BLAINE TECH SERVICES	Date: 6/17/24	Onsite Work Crew:
JSA **Second Tech Security Overwatch**	Location: 2555 13th Ave SW, Seattle	DO, LJ, AR

PPE -- Personal Protective Equipment	Required (Y/N)	PPE -- Personal Protective Equipment	Required (Y/N)
Steel Toed Safety Shoes	(Y) / N	Respirator	Y / (N)
Hi-Viz Safety Vest (Class 2)	(Y) / N	Hard Hat	(Y) / N
Safety Glasses	(Y) / N	Rain Gear	Y / (N)
Goggles	Y / (N)	Snake Gators	Y / (N)
Face Shield	Y / (N)	Tyvek Coveralls	Y / (N)
Nitrile Gloves	(Y) / N	Fire Resistant Clothing (FRC)	(Y) / N
Kevlar Gloves	(Y) / N	Knee Pads	Y / (N)
Rubber/Neoprene Gloves	Y / (N)	Hi-Viz Safety Jacket or Pants (Class 3)	Y / (N)
Hearing Protection	Y / (N)	Other (list)	Y / (N)

HAZARD ASSESSMENTS:

Whenever you arrive at a new job site, a **Hazard Assessment** is required to identify and evaluate potential hazards. **Hazard Assessments** must be performed prior to each move you make with your vehicle and after you arrive at each new work location or well. **Hazard Assessments** are also required whenever site conditions change. Technicians should maintain a high level of **Situational Awareness**, frequently assessing their safety.

STOP WORK AUTHORITY:

If, at any time, you feel that the work cannot be performed safely, you must **Stop Work and Report** to your Blaine Tech Project Manager.

Adherence to **9 Life Saving Rules** (LSRs) is **REQUIRED**:



Development Team	Document Control System & Issue Authority	
Bart Gebbie, Director of Client Services; Francis Thie, Vice President; Richard Blaine, Vice President	Approved by: Francis Thie, Vice President, 12/27/2021	Issue Authority: Francis Thie, Vice President, 12/27/2021
Retail Engineering and DS SGW FDG Contractor Safety CASE review performed by: Francis Thie, Vice President, 11/11/2020		
Hazard Control Sheets (HCS) Utilized: 6-Excavations, concrete cutting, trenching and drilling; 7-Hot works; 10-Water under pressure; 11-Air under pressure; 13-Slips, Trips and Falls; 19-Moving vehicles to and from site; 20-Moving vehicles off site and forecourt work; 23-Severe weather; 26-Electrical buried supply lines; 29-Benzene; 31-Dust particles; 32-Vermin; 35-Physical effort; 36-Noise; 37-Heat stress; 38-Cold stress; 40-Security; 41-Hazardous Waste		

Work Type	Vapor Pin Install & Sampling at Shell Site / Facility
JSA Type	Summary JSA
Organization	Blaine Tech Services, Inc.

My signature *below indicates that I have read this JSA; that I understand the hazards and safe work practices associated with the tasks; and that all requirements and conditions listed above have been met and verified prior to starting the work.*

Name/Signature Diana Ojeda / Diana Ojeda **Date/Time** 6/17/24 @ 0530

Name/Signature Lydia Johnson / Lydia Johnson **Date/Time** 6/17/24 @ 0530

Name/Signature Diana Ojeda / Diana Ojeda **Date/Time** 6/18/24 @ 0530

Name/Signature Lydia Johnson / Lydia Johnson **Date/Time** 6/18/24 @ 0530

Name/Signature Aimee Rike / Aimee Rike **Date/Time** 6/18/24 @ 0530

Name/Signature Diana Ojeda / Diana Ojeda **Date/Time** 6/19/24 @ 0530

Name/Signature Lydia Johnson / Lydia Johnson **Date/Time** 6/19/24 @ 0530

Aimee Rike / Aimee Rike 6/19/24 @ 0535

BLAINE TECH SERVICES

JSA
Traffic Control at Shell Site / Facility

Date: 6/17/24

Location: 2555 13th Ave SW, Seattle

Onsite Work Crew: DO, LJ, AR

PPE -- Personal Protective Equipment	Required (Y/N)	PPE -- Personal Protective Equipment	Required (Y/N)
Steel Toed Safety Shoes	(Y) / N	Respirator	Y / (N)
Hi-Viz Safety Vest (Class 2)	(Y) / N	Hard Hat	(Y) / N
Safety Glasses	(Y) / N	Rain Gear	Y / (N)
Goggles	Y / (N)	Snake Gators	Y / (N)
Face Shield	Y / (N)	Tyvek Coveralls	Y / (N)
Nitrile Gloves	(Y) / N	Fire Resistant Clothing (FRC)	(Y) / N
Kevlar Gloves	(Y) / N	Knee Pads	Y / (N)
Rubber/Neoprene Gloves	Y / (N)	Hi-Viz Safety Jacket or Pants (Class 3)	Y / (N)
Hearing Protection	Y / (N)	Other (list)	Y / (N)

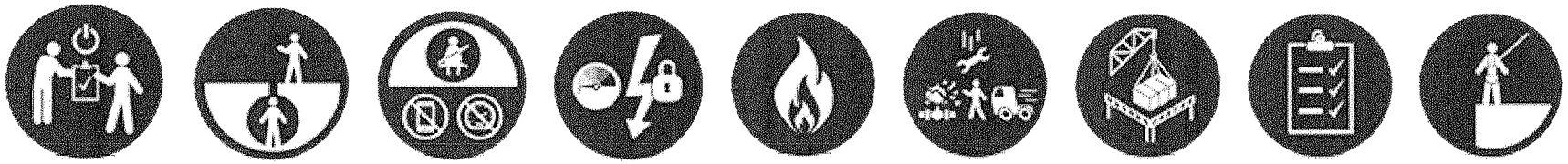
HAZARD ASSESSMENTS:

Whenever you arrive at a new job site, a **Hazard Assessment** is required to identify and evaluate potential hazards. **Hazard Assessments** must be performed prior to each move you make with your vehicle and after you arrive at each new work location or well. **Hazard Assessments** are also required whenever site conditions change. Technicians should maintain a high level of **Situational Awareness**, frequently assessing their safety.

STOP WORK AUTHORITY:

If, at any time, you feel that the work cannot be performed safely, you must **Stop Work and Report** to your Blaine Tech Project Manager.

Adherence to **9 Life Saving Rules** (LSRs) is **REQUIRED**:



Development Team	Document Control System & Issue Authority	
Bart Gebbie, Director of Client Services; Francis Thie, Vice President; Richard Blaine, Vice President	Approved by: Francis Thie, Vice President, 12/27/2021	Issue Authority: Francis Thie, Vice President, 12/27/2021
Retail Engineering and DS SGW FDG Contractor Safety CASE review performed by: Francis Thie, Vice President, 11/11/2020		
Hazard Control Sheets (HCS) Utilized: 7-Hot works; 10-Water under pressure; 11-Air under pressure; 13-Slips, Trips and Falls; 19-Moving vehicles to and from site; 20-Moving vehicles off site and forecourt work; 23-Severe weather; 27-Insufficient oxygen atmosphere/Confined space; 29-Benzene; 32-Vermin; 35-Physical effort; 36-Noise; 37-Heat stress; 38-Cold stress; 40-Security; 41-Hazardous Waste		

Work Type	Traffic Control at Shell Site / Facility
JSA Type	Summary JSA
Organization	Blaine Tech Services, Inc.

My signature *below indicates that I have read this JSA; that I understand the hazards and safe work practices associated with the tasks; and that all requirements and conditions listed above have been met and verified prior to starting the work.*

Name/Signature Diana Ojeda / Diana Ojeda **Date/Time** 6/17/24 @ 1530

Name/Signature Lydia Johnson / Lydia Johnson **Date/Time** 6/17/24 @ 0530

Name/Signature Diana Ojeda / Diana Ojeda **Date/Time** 6/18/24 @ 0530

Name/Signature Lydia Johnson / Lydia Johnson **Date/Time** 6/18/24 @ 0530

Name/Signature Aimee Rike / **Date/Time** 6/18/24 @ 0530

Name/Signature Diana Ojeda / Diana Ojeda **Date/Time** 6/19/24 @ 0530

Name/Signature Lydia Johnson / Lydia Johnson **Date/Time** 6/19/24 @ 0530

Name/Signature Aimee Rike / **Date/Time** 6/19/24 @ 0535

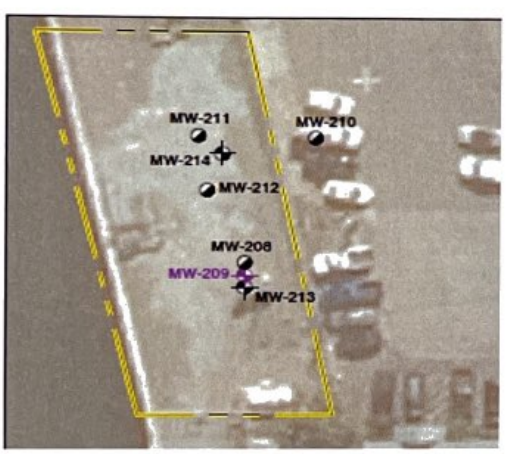
Monitoring Well Gauging Field Log - Shoreline

Project No: 11218519
SAP: 357032
PlaNet ID: MIGUS357032
Location: 2555 13th Avenue SW Seattle (Harbor Island Terminal)

Personnel: Abby Palmgren, Annika Prom

Date: 7 / 11 / 24

Well ID	Time Gauged	Depth to Product	Depth to Water	Comments
MW-208 [1]	0817	--	5.48	
NW-210 [4]	0835	--	6.67	Sock replaced
MW-211 [2]	0823	--	5.75	
MW-212 [3]	0828	--	6.17	Sock not replaced



Monitoring Well Gauging Field Log - Shoreline

Project No: 11218519
SAP: 357032
PlaNet ID: MIGUS357032
Location: 2555 13th Avenue SW Seattle (Harbor Island Terminal)

Personnel: Calli Gray, Annika Prom
Date: 8/15/24

Well ID	Time Gauged	Depth to Product	Depth to Water	Comments
MW-208 [1]	0846	—	5.78	
NW-210 [4]	~~0821~~ 0921	—	6.72	No DTP, Sock replaced
MW-211 [2]	0852	—	6.17	
MW-212 [3]	0900	—	6.44	No DTP, Sock replacement not necessary



WELL GAUGING DATA

Project # 240918-AR1 Date 9/18/24 Client GHD

Site Shell Harbor Island terminal

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Water/ SPH Meter	PID (PPM)
MW-201	0816	2	—	—	—	—	14.52	21.53		0.0
MW-202	0814	2	—	—	—	—	14.01	21.74		0.0
MW-203	0829	2	—	—	—	—	8.07	14.11		0.0
MW-204	0821	2	—	—	—	—	11.49	17.71		0.0
MW-206A	0833	2	—	—	—	—	10.02	16.48		0.0
MW-101	0931	2	—	—	—	—	11.81	19.9,		0.0
MW-102	0912	2	—	—	—	—	9.24	17.45		0.0
MW-301	0859	2	—	—	—	—	6.32	14.69		0.0
MW-302	1058	2	—	—	—	—	6.67	15.00		0.0 * 9/
MW-303	0901	2	—	—	—	—	6.48	14.76		0.0
MW-304	0904	2	—	—	—	—	6.53	14.72		0.0
MW-307	0939	2	—	—	—	—	9.35	17.49		0.0
MW-308	0937	2	—	—	—	—	9.29	17.42		0.0
MW-309	0857	2	—	—	—	—	6.50	14.59		0.0
MW-310	~~0851~~ 0907 LJ	2	—	—	—	—	7.33	14.54	↓	0.0

Instruments Used: Durham Geoslope Water Level Indicator* GeoTech Oil/Water Interface Probe** Other: _____

Survey Point - Top of casing at all wells

* gauged late due to cars parked over wells

WELL GAUGING DATA

Project # 240918-AR1 Date 9/18/24 Client GHD

Site Shell Harbor Island Terminal

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Water/ SPH Meter	PID (PPM)
MW-311	0853	2	—	—	—	—	8.57	15.01		0.0
MW-312	0851	2	—	—	—	—	8.08	14.88		0.0
MW-313	0842	2	—	—	—	—	6.74	13.85		0.0
MW-314	— unable to access —									
MW-315	0845	2	odor	—	—	—	8.22	14.67		0.0
TES-MW-1	0934	4	—	—	—	—	9.92	15.74		0.0
TX-03A	1022	2	-	-	-	-	6.19	14.70		0.0 *
MW-208	0755	2	—	—	—	—	5.56	13.62		0.0
MW-210	0802	2	odor	-	-	-	6.76	14.45		0.0
MW-211	0758	4	—	—	—	—	5.75	11.29		0.0
MW-212	0800	4	—	—	—	—	6.43	14.65	↓	0.0

Instruments Used: Durham Geoslope Water Level Indicator* GeoTech Oil/Water Interface Probe** Other: _____

Survey Point - Top of casing at all wells

* gauged late due to cars parked on wells

Monitoring Well Gauging Field Log - Shoreline

Date: 9/18/24
Job No:
SAP:
Incident No 300036
Location: 2555 13th Ave SW, Seattle (Harbor Island Terminal)
Personnel: AR + LJ

Well ID	Time Gauged	Depth to Water	Depth to Product	Comments
MW-208	0755	5.56	—	
MW-210	0802	6.76	—	Absorbant sock
MW-211	0758	5.75	—	
MW-212	0800	6.43	—	Absorbant sock

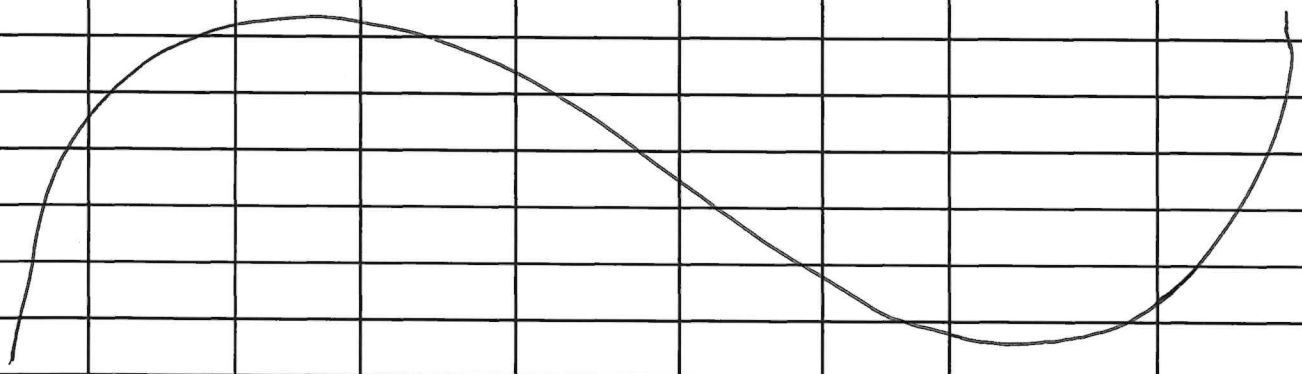
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240918-AR1	Client: GHD
Sampler: AR	Gauging Date: 9/18/24
Well I.D.: MW-301	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 14.69	Depth to Water (ft.): 6.32
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ Bladder Pump
Sampling Method: ~~Dedicated Tubing~~ New Tubing Other ____

Start Purge Time: 1042 Flow Rate: 200 mL/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1045	17.33	6.47	311	24	1.11	88.5	600	6.39	0.0
1048	17.62	6.46	310	20	1.00	85.9	1200	6.45	0.0
1051	17.81	6.47	317	15	0.73	80.1	1800	6.51	0.0
1054	17.98	6.49	319	14	0.69	76.3	2400	6.54	0.0
1057	17.94	6.50	321	14	0.66	72.4	3000	6.59	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 1100 Sampling Date: 9/18/24

Sample I.D.: MW-301 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.: —

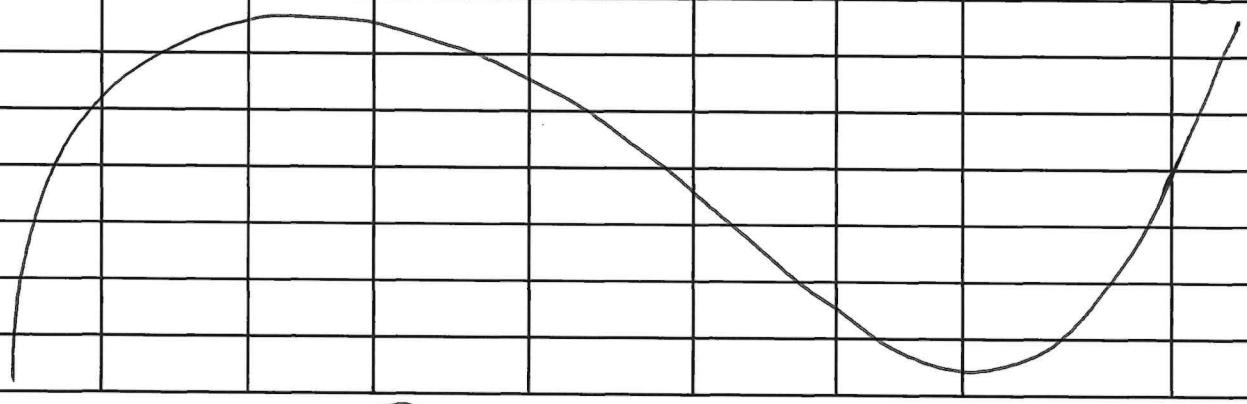
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240918-AR1	Client: GHD
Sampler: AR	Gauging Date: 9/18/24
Well I.D.: MW-302	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 15.00	Depth to Water (ft.): 6.67
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 1102 Flow Rate: 200 mL/min Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1105	18.05	6.68	346	25	1.03	-19.6	600	6.75	0.0
1108	18.67	10.57	343	20	0.87	-18.2	1200	6.83	0.0
1111	18.85	6.54	342	15	0.64	-18.3	1800	6.89	0.0
1114	18.96	6.52	339	15	0.59	-18.7	2400	6.92	0.0
1117	19.00	6.52	340	14	0.59	-19.1	3000	6.94	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 1120 Sampling Date: 9/19/24

Sample I.D.: MW-302 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.: —

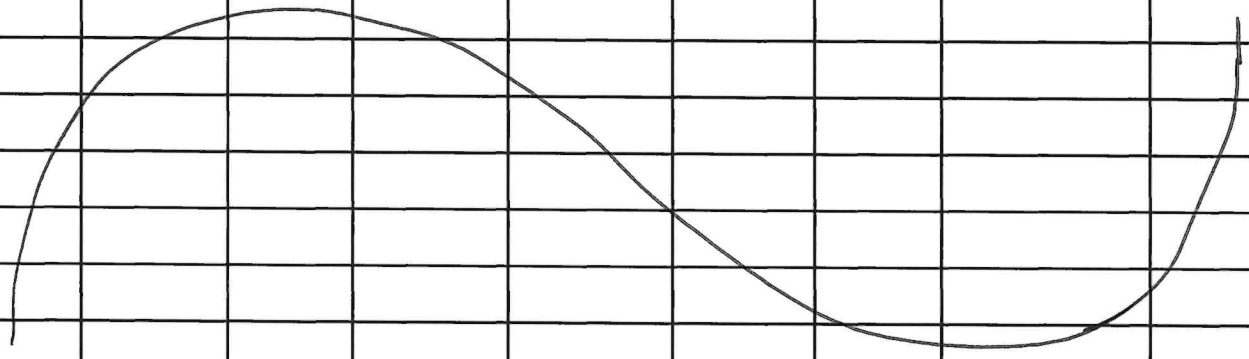
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240918-AR1	Client: GHD
Sampler: AR	Gauging Date: 9/18/24
Well I.D.: MW-303	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.76	Depth to Water (ft.): 6.48
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 1103 Flow Rate: 200 mL/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1106	16.60	6.47	484	19	1.01	66.3	600	6.59	0.0
1109	16.88	6.48	488	15	0.79	61.6	1200	6.63	0.0
1112	17.12	6.50	493	13	0.61	51.8	1800	6.69	0.0
1115	17.16	6.50	490	12	0.64	48.3	2400	6.72	0.0
1118	17.20	6.51	491	12	0.59	45.5	3000	6.75	0.0



Did well dewater? Yes (No)	Amount actually evacuated: 3000
Sampling Time: 1120	Sampling Date: 9/18/24
Sample I.D.: MW-303	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.: —

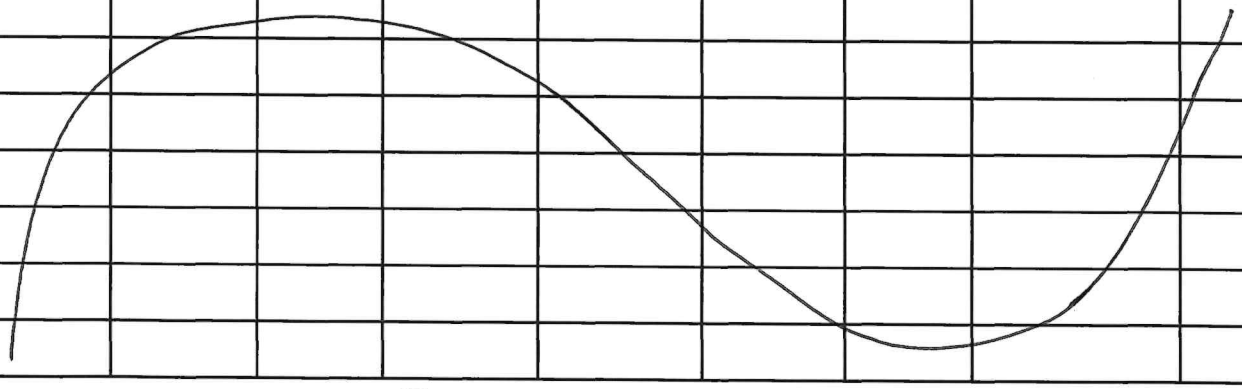
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240918-AR1	Client: GHD
Sampler: AR	Gauging Date: 9/18/24
Well I.D.: MW-304	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.72	Depth to Water (ft.): 6.53
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 1130 ~~1030~~ AR Flow Rate: 200 mL/min Pump Depth: 10.5

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
AR 1133 ~~1033~~	16.83	6.79	359	24	0.97	24.8	600	6.61	0.0
AR 1134 ~~1036~~	16.70	6.71	355	20	0.82	20.9	1200	6.65	0.0
AR 1139 ~~1039~~	16.72	6.72	365	17	0.78	15.9	1800	6.69	0.0
AR 1142 ~~1042~~	16.70	6.73	366	16	0.75	14.0	2400	6.72	0.0
AR 1145 ~~1045~~	16.75	6.73	366	16	0.70	13.2	3000	6.74	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: ~~1048~~ 1148 Sampling Date: 9/18/24

Sample I.D.: MW-304 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.: —

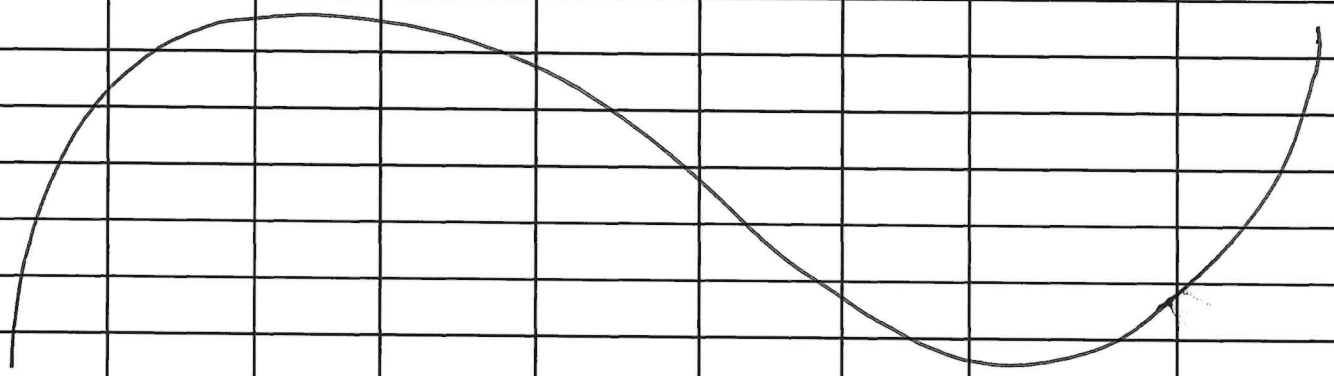
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240918-AR1	Client: GHD
Sampler: AR	Gauging Date: 9-18-24
Well I.D.: MW-307	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 17.49	Depth to Water (ft.): 9.35
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: ~~Dedicated Tubing~~ New Tubing Other ___

Start Purge Time: 1006 Flow Rate: 200 ml/min Pump Depth: 13'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1009	16.26	6.62	246	20	1.08	93.2	600	9.49	0.0
1012	16.11	6.58	244	15	0.87	64.0	1200	9.53	0.0
1015	15.98	6.56	243	13	0.79	54.3	1800	9.58	0.0
1018	15.95	6.54	242	12	0.75	50.1	2400	9.61	0.0
1021	15.90	6.51	242	13	0.73	48.4	3000	9.65	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 1025 Sampling Date: 9/18/24

Sample I.D.: MW-307 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: — See COC

Equipment Blank I.D.: @ Time Duplicate I.D.: —

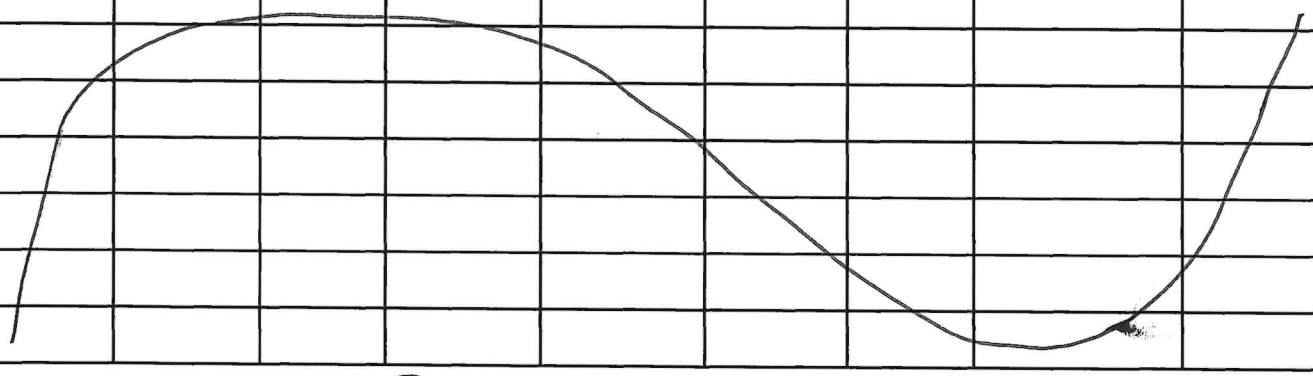
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240918-AR1	Client: GHD
Sampler: AR	Gauging Date: 9/18/24
Well I.D.: MW-308	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 17.42	Depth to Water (ft.): 9.29
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: ~~Dedicated Tubing~~ New Tubing Other ___

Start Purge Time: 0942 Flow Rate: 200 mL/min Pump Depth: 13'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PI
0945	15.52	6.96	350	21	1.09	127.1	600	9.47	0.0
0948	15.54	6.87	346	13	0.90	101.3	1200	9.53	0.0
0951	15.58	6.80	340	11	0.71	77.3	1800	9.60	0.0
0954	15.60	6.76	336	10	0.69	74.6	2400	9.63	0.0
0957	15.63	6.74	338	10	0.68	71.2	3000	9.65	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 1000 Sampling Date: 9/18/24

Sample I.D.: MW-308 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.: ———

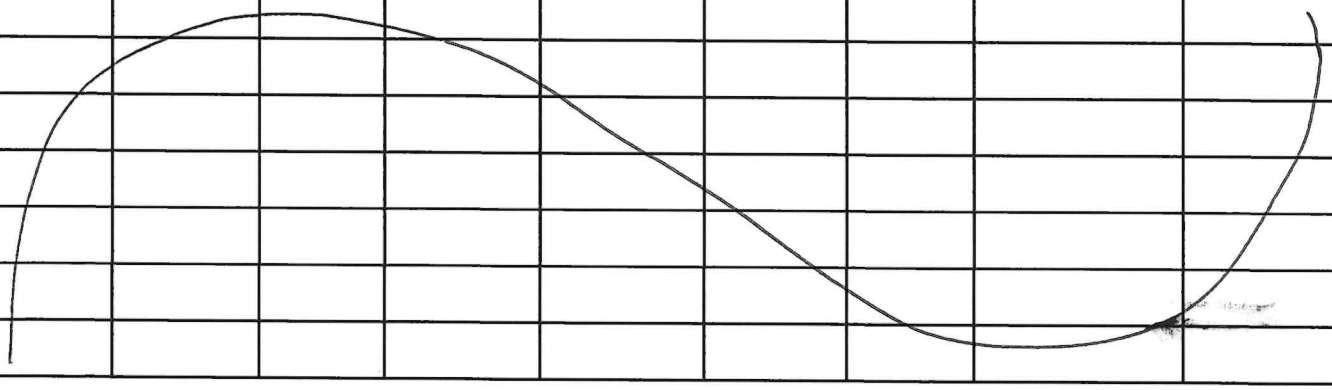
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240918-AR1	Client: GHD
Sampler: AR	Gauging Date: 9/18/24
Well I.D.: MW-310	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.54	Depth to Water (ft.): 7.33
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ____

Start Purge Time: 1154 Flow Rate: 200 mL/min Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1157	17.47	6.67	406	22	1.00	0.7	600	7.44	0.0
1200	17.77	6.66	406	20	0.85	-3.9	1200	7.50	0.0
1203	17.98	6.65	409	17	0.80	-7.5	1800	7.60	0.0
1206	18.08	6.65	408	17	0.77	-10.3	2400	7.69	0.0
1209	18.12	6.66	409	18	0.73	-12.0	3000	7.78	0.0



Did well dewater? Yes (No)	Amount actually evacuated: 3000
Sampling Time: 1210	Sampling Date: 9/18/24
Sample I.D.: MW-310	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.: —

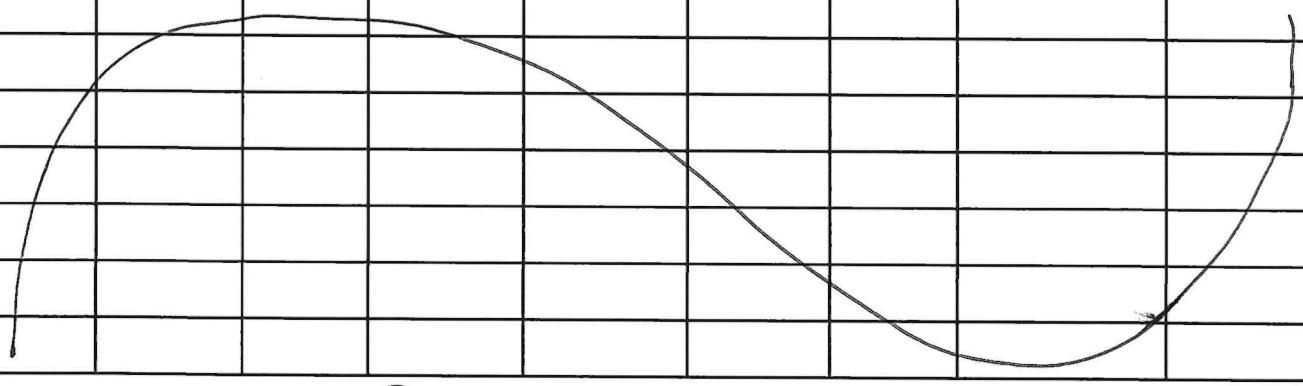
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240918-AR1	Client: GHD
Sampler: AR	Gauging Date: 9/18/24
Well I.D.: MW-311	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 15.01	Depth to Water (ft.): 8.57
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0742 Flow Rate: 200 mL/min Pump Depth: 12

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0745	16.92	6.49	577	24	1.03	131.3	600	8.64	0.0
0748	17.06	6.40	576	19	0.88	132.4	1200	8.69	0.0
0751	17.07	6.33	573	16	0.80	132.2	1800	8.74	0.0
0754	17.05	6.32	571	15	0.78	130.2	2400	8.77	0.0
0757	17.10	6.32	569	15	0.75	129.3	3000	8.80	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 0800 Sampling Date: 9/19/24

Sample I.D.: MW-311 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.: —

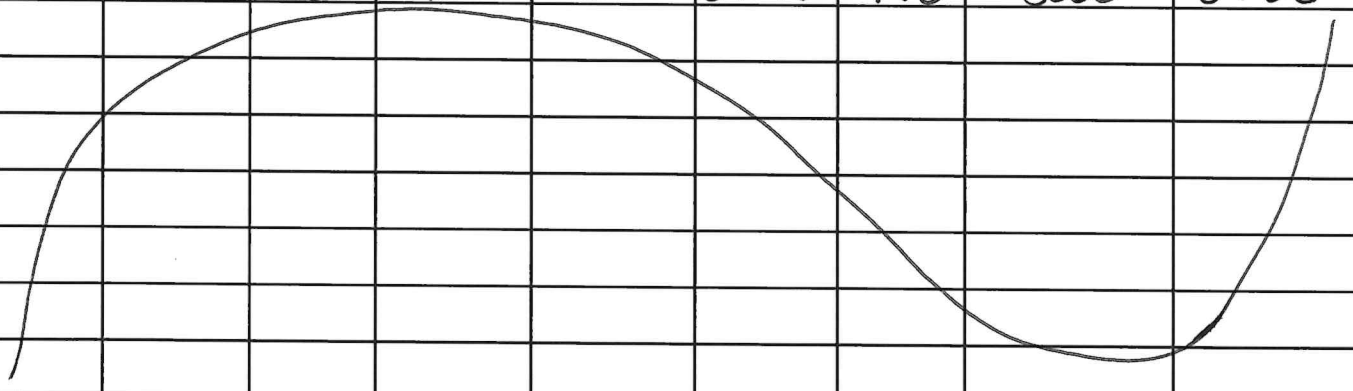
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240918-AR1	Client: GHD
Sampler: AR	Gauging Date: 9/18/24
Well I.D.: MW-312	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.88	Depth to Water (ft.): 8.08
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0911 Flow Rate: 200 mL/min Pump Depth: 11.5

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)	PF
0914	17.40	6.76	492	17	0.90	24.1	600	8.19	0.0
0917	17.48	6.77	493	10	0.67	20.3	1200	8.23	0.0
0920	17.46	6.78	493	6	0.51	14.4	1800	8.29	0.0
0923	17.47	6.79	496	6	0.47	10.2	2400	8.34	0.0
0926	17.49	6.80	497	6	0.45	7.8	3000	8.38	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 0930 Sampling Date: 9/19/24

Sample I.D.: MW-312 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.: —

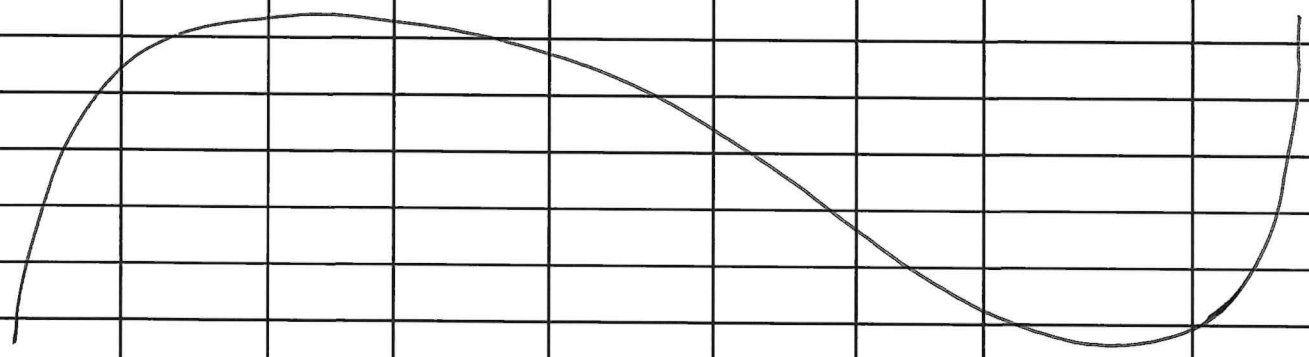
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240918-AR1	Client: GHD
Sampler: AR	Gauging Date: 9/18/24
Well I.D.: MW-313	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 13.85	Depth to Water (ft.): 6.74
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0808 Flow Rate: 200 mL/min Pump Depth: 10.5

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (uS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)	PID
0811	17.23	6.66	382	20	1.16	104.4	600	6.85	0.0
0814	17.80	6.74	371	15	1.01	93.5	1200	6.89	0.0
0817	18.20	6.75	368	11	0.94	87.2	1800	6.94	0.0
0820	18.39	6.75	364	10	0.90	82.6	2400	6.98	0.0
0823	18.35	6.77	367	10	0.93	79.7	3000	6.99	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 0825 Sampling Date: 9/19/24

Sample I.D.: MW-313 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.: —

VOAs + Amber

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240918-AR1	Client: GHD
Sampler: AR	Gauging Date: 9/19/24
Well I.D.: MW-314	Well Diameter (in.): 2 3 4 6 8 ___
Total Well Depth (ft.):	Depth to Water (ft.):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type:

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ____

Start Purge Time: ____ Flow Rate: ____ Pump Depth: ____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
		Unable to access well						
		due to car being						
		parked over well						
		for entire event						
		NO	SAMPLE	TAKEN				

Did well dewater? Yes No Amount actually evacuated:

Sampling Time: Sampling Date:

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 240918-AR1	Client: GHD
Sampler: AR	Gauging Date: 9/18/24
Well I.D.: MW-315	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.67	Depth to Water (ft.): 8.22
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0838 Flow Rate: 200 mL/min Pump Depth: 11.5

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)	PI
0841	16.78	6.72	508	18	1.56	63.9	600	8.31	0.0
0844	16.74	6.67	510	14	1.21	63.0	1200	8.40	0.0
0847	16.63	6.63	503	12	1.10	57.6	1800	8.49	0.0
0850	16.59	6.61	502	12	1.08	56.8	2400	8.53	0.0
0853	16.58	6.63	499	11	1.00	54.2	3000	8.56	0.0

Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 0855 Sampling Date: 9/19/24

Sample I.D.: MW-315 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.: —

VOAS + Amber

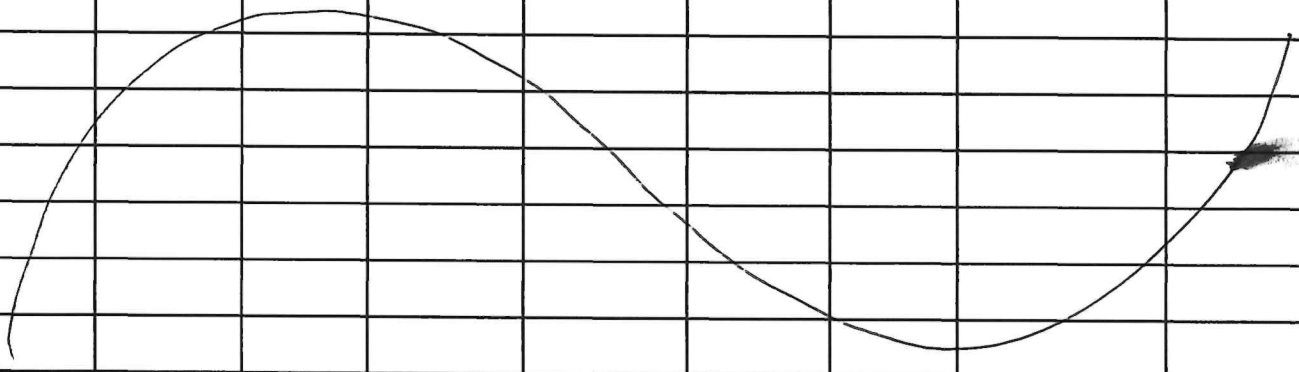
LOW FLOW WELL MONITORING DATA SHEET

Project #: 240918-AR1	Client: GHD
Sampler: AR	Gauging Date: 9/19/24
Well I.D.: TX-03A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.70	Depth to Water (ft.): 6.19
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: ~~Dedicated Tubing~~ New Tubing Other ___

Start Purge Time: 1029 Flow Rate: 200 mL/min Pump Depth: 10.5

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1032	17.04	6.94	335	17	1.17	-21.3	600	6.24	0.0
1035	16.99	6.96	332	12	1.01	-26.9	1200	6.30	0.0
1038	17.35	6.90	329	9	0.87	-27.4	1800	6.37	0.0
1041	17.44	6.87	325	9	0.83	-28.0	2400	6.43	0.0
1044	17.50	6.84	327	9	0.85	-29.2	3000	6.49	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 1045 Sampling Date: 9/19/24

Sample I.D.: TX-03A Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.: —

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:
- ☐ SGW FDG
- ☐ PIPELINE
- ☐ RETAIL
- ☐ CHEMICALS
- ☐ CONSULTANT
- ☐ LUBES
- ☐ TRANSPORTATION
- ☐ OTHER _____

Print Bill To Contact Name:

PlaNet Site or Project ID

PO #

GSAP Project ID

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 9/19/24

PAGE: 1 of 2

SAMPLING COMPANY: Blaine Tech Services, Inc

LOG CODE: BTSS

SITE ADDRESS: Street and City: 2555 13th Avenue

State: WA

GHD Project / Task Number: 12631170

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

EDF DELIVERABLE TO (Name, Company, Office Location): Emily Blakeway, GHD, WA

PHONE NO.: (425) 327-4585

E-MAIL: emily.blakeway@ghd.com

GHD Other ID

PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway

TELEPHONE: (425) 327-4585

FAX:

Bill To Contact E-MAIL: emily.blakeway@ghd.com

SAMPLER NAME(S) (Print): Aimee Rike

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED
- ☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	UNIT COST: 8260C BTEX	NWTPH-Dx	NON-UNIT COST: NWTPH-Gx	Total Lead	PAH
	MW-301	9/18/24	1100	GW	X					4	X		X		
	MW-302	9/19/24	1120		X					4	X		X		
	MW-303	9/18/24	1120		X					4	X		X		
	MW-304	9/18/24	1148		X					4	X		X		
	MW-307	9/18/24	1025		X					4	X		X		
	MW-308	9/18/24	1000		X					4	X		X		
	MW-310	9/18/24	1210		X					4	X		X		
	MW-311	9/19/24	0800		X					4	X		X		
	MW-312	9/19/24	0930		X					4	X		X		
	MW-313	9/19/24	0825	↓	X					6	X	X	X		

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		9/23/24	1042
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)

- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:

☐ SGW FDG	☐ PIPELINE	☐ RETAIL
☐ CHEMICALS	☐ CONSULTANT	☐ LUBES
☐ TRANSPORTATION	☐ OTHER _____	

Print Bill To Contact Name:

PlaNet Site or Project ID

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 9/19/24

PAGE: 2 of 2

PO #

GSAP Project ID

SAMPLING COMPANY: Blaine Tech Services, Inc

LOG CODE: BTSS

SITE ADDRESS: Street and City: 2555 13th Avenue

State: WA

GHD Project / Task Number: 12631170

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

EDF DELIVERABLE TO (Name, Company, Office Location): Emily Blakeway, GHD, WA

PHONE NO.: (425) 327-4585

E-MAIL: emily.blakeway@ghd.com

GHD Other ID

PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway

TELEPHONE: (425) 327-4585

FAX:

Bill To Contact E-MAIL: emily.blakeway@ghd.com

SAMPLER NAME(S) (Print): Aimee Rike

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED
- ☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

UNIT COST: 8260C BTEX; NWTPH-Dx

NON-UNIT COST: NWTPH-Gx; Total Lead; PAH

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	8260C BTEX	NWTPH-Dx	NWTPH-Gx	Total Lead	PAH
	MW-315	9/19/24	0855	GW	X					6	X	X	X		
	TX-03A	9/19/24	1045	GW	X					4	X		X		
	TB-1	9/19/24	0900	W	X					2	X		X		

Relinquished by: (Signature)	Received by: (Signature)	Date: 9/23/24	Time: 1042
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # _____

ADDRESS 2555 13th Ave SW

DATE: 9/18/24

CITY & STATE Seattle WA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
MW-201	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-202	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-203	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-204	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-206	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-101	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-102	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-301	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-302	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-303	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-304	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
TOTAL # CAPS REPLACED =												= TOTAL # OF LOCKS REPLACED						

Condition of Soil Boring Patches or Abandoned Monitoring Wells	G	P	N/A	If POOR, Borings/Well IDs or Location Description		Y	N	

Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted	Photos of Condition		Repair Date and PM Initials
NA		G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A		Y	N	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Print or type Name of Field Personnel & Consultant Company

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT #

ADDRESS 2555 13th Ave SW

DATE: 9/18/24

CITY & STATE Seattle WA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
MW-307	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-308	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-309	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-310	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-311	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-312	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-313	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-314	~~Standpipe~~	~~Flush~~	~~G~~	~~P~~	Size (inch)	~~Y~~	~~N~~	~~G~~	~~R~~	~~G~~	~~R~~	~~NL~~	~~G~~	~~P~~	unable to access	~~Y~~	~~N~~	
MW-315	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
TES-MW-1	Standpipe	Flush	G	P	Size (inch) 4	Y	N	G	R	G	R	NL	G	P		Y	N	
TX-03A	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	

TOTAL # CAPS REPLACED = ____ ____ ____ = TOTAL # OF LOCKS REPLACED

Condition of Soil Boring Patches or Abandoned Monitoring Wells	G	P	N/A	If POOR, Borings/Well IDs or Location Description		Y	N	

Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted	Photos of Condition		Repair Date and PM Initials
NA		G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A		Y	N	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Print or type Name of Field Personnel & Consultant Company

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT #

ADDRESS 2555 13th Ave SW

DATE: 9/18/24

CITY & STATE Seattle WA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
MW-208	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-210	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-211	Standpipe	Flush	G	P	Size (inch) 4	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-212	Standpipe	Flush	G	P	Size (inch) 4	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	

TOTAL # CAPS REPLACED = ____ ____ ____ = TOTAL # OF LOCKS REPLACED

Condition of Soil Boring Patches or Abandoned Monitoring Wells	G	P	N/A	If POOR, Borings/Well IDs or Location Description		Y	N	

Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted	Photos of Condition		Repair Date and PM Initials
NA		G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A		Y	N	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Print or type Name of Field Personnel & Consultant Company

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	Shell Harbor Island			PROJECT NUMBER	240918-AR1		
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
Hanna	08020054101	9/18/24 @ 0740	PH 4.0 7.0 10.0	4.04 7.05 10.04	✓	20.1	AR
			cond 3900 ORP 237.5 DO 100	3903 238.1 104.3	✓	20.1	AR
Hanna	08020054101	9/19/24 @ 0720	PH 4.0 7.0 10.0	3.96 7.03 10.02	✓	20.0	AR
			cond 3900 ORP 237.5 DO 100	3894 238.2 103.7	✓	20.0	AR

	GHD Shell SGW (US) Daily Tailgate Meeting & Job Clearance Form	Issue: 1/2/2011 Revision 11: October 2016 Do NOT pre-populate any field.

Job Location:	2555 13th Ave SW	Date:	9/18/24
GHD Site Supervisor:		GHD PM:	

List activities to be performed today:	Ground Water monitoring
Permitted Activities (specific permit to be competed):	☒ Not Applicable ☐ Confined Space Entry ☐ Excavation/Trenching ☐ Hot Work ☐ Hoisting/Rigging (any lifting with equipment, excluding drill rigs) ☐ Natural Gas System Maintenance

The above Permit-required activities require onsite GHD supervision unless approved by Regional Operations.

Muster Point:	Shell terminal office	Spill Kit Location:	Van
First Aid Kit Location:	Van	Fire Extinguisher Location:	Van
Emergency cut-off switches:	N/A	Designated cell phone use area(s):	Passenger Seat

Has the Site Manager/Owner been notified of the work activities and/or participated in a pre-work site walk?	☒ Yes ☐ No ☐ N/A
Is a fuel delivery scheduled for today? If yes, plan to Stop Work during fuel delivery.	☐ Yes ☐ No ☒ N/A
Has a site walk been performed to identify additional hazards?	☒ Yes ☐ No*
Have all personnel reviewed and understand the site specific HASP?	☒ Yes ☐ No*
Does each activity have a Job Safety Analysis (JSA)?	☒ Yes ☐ No*
Does each subcontractor have JSAs for their activities?	☒ Yes ☐ No* ☐ N/A
Have JSAs been reviewed by the work team and newly identified hazards been added to the JSA?	☒ Yes ☐ No*
Per our lone worker procedure, is each employee either accompanied by or in communications with another?	☒ Yes ☐ No* ☐ N/A
Has a Safe Lift Plan been completed and reviewed/approved by a GHD Subject Matter Expert?	☐ Yes ☐ No* ☒ N/A
Have all members of the work team confirmed understanding of the work, hazards, and controls/ mitigation?	☒ Yes ☐ No*
Has each person on the work team discussed all hazards and mitigation measures associated with any task which will require their feet to leave the ground?	☐ Yes ☐ No* ☒ N/A
Have work areas been properly cordoned-off to protect workers, site staff, and the public?	☒ Yes ☐ No* ☐ N/A
Have equipment checks been completed, documented, and reviewed?	☒ Yes ☐ No* ☐ N/A
Have there been any equipment modifications made by subcontractor(s)? Is yes, discuss modifications.	☐ Yes ☒ No ☒ N/A
Do all members of the work team have API Safety Keys (GHD excluded)?	☒ Yes ☐ No* ☐ N/A
Do all members of the work team have a Shell "Life Saving Rules" Training card?	☒ Yes ☐ No*
Do all site workers understand injury/ intervention reporting requirements including immediately notifying the GHD Site Supervisor of any injury, near miss, unsafe condition, hazard observation, or release?	☒ Yes ☐ No*
If permits are required, have they been reviewed and permit conditions understood by the Team?	☐ Yes ☐ No* ☒ N/A
If drilling, did driller physically point out all pinch points to entire team (GHD and all subs)?	☐ Yes ☐ No* ☒ N/A
If drilling, has the driller & crew agreed the audible and visible signals for "all clear" prior to engaging controls?	☐ Yes ☐ No* ☒ N/A

** If No, then work cannot be performed until corrective action is completed and documented.*

Title of GHD JSAs reviewed today:	Groundwater monitoring	Title of Subcontractor's JSAs reviewed today:	

All personnel are wearing (regardless of activity):	☒ Hard Hat ☒ Safety Glasses ☒ Safety Vest ☒ Steel-Toed Boots ☒ Gloves (appropriate for task) See JSA for additional task specific PPE requirements.

Stop Work Authority & Obligation

* All employees will stop the job any time anyone is concerned or uncertain about safety.
* All employees will stop the job if anyone identifies a hazard or additional mitigation not recorded on the JSA.
* All employees will be alerted to any changes in personnel or conditions at the worksite.
* All employees will stop the job and reassess a task, hazards, and mitigations, and then amend the JSA as needed.

Other Items Discussed Today:

Circle the Life Saving Rule Icons that are applicable to the work/activities that will take place today:



BYPASSING SAFETY CONTROLS | CONFINED SPACE | DRIVING | ENERGY ISOLATION | HOT WORK | LINE OF FIRE | SAFE MECHANICAL LIFTS | WORK AUTHORIZATION | WORKING AT HEIGHTS

	GHD Shell SGW (US) Daily Tailgate Meeting & Job Clearance Form	Issue: January 2, 2011 Revision 11: October 2016 Do NOT pre-populate any field.

SITE WORKERS (including GHD Contractors and Subcontractors): By signing here, you are stating the following:

* You understand that compliance with Shell's Life Saving Rules is mandatory and that failing to follow to them may result in termination.
* You have been involved in reviewing the JSAs and understand the hazards and control measures associated with each task you are about to perform.
* You understand the permit to work requirements applicable to the work you are about to perform (if it includes permitted activities).
* You understand the Shell Life Saving Rules and are aware that tasks or work that is not risk-assessed shall not be performed.
* You are aware of your authority and obligation to 'Stop Work'.

I arrived and departed fit for duty:

* You are physically and mentally fit for duty,
* You are not under the influence of any type of medication, drugs, or alcohol that could affect your ability to work safely.
* You are aware of your responsibility to immediately report any illness, injury (regardless of where or when it occurred), or fatigue issue you may have to the GHD Site Supervisor.
* You will sign-out uninjured unless you have otherwise informed the GHD Site Supervisor.

Print Name & Company	Signature	Initials & Sign In Time	Initials & Sign Out Time
Aimee Rike BTS		0600 In & Fit AR	Out & Fit
Lydia Johnson BTS		0600 In & Fit LJ	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit

(Attach additional Site Worker sign-in/out sheets if needed)

PERSONAL SAFETY COMMITMENT (Attach additional Personal Safety Commitment sheets, if needed)

Print Name	"I will personally commit to do the following to positively improve site safety today":
Lydia Johnson	I will wear all my PPE properly
Aimee Rike	I will wear proper PPE

SITE VISITORS (attach additional Site Visitor sign-in/out sheets if needed)

Print Name	Company Name	Arrival Time	Departure Time	Signature

SITE REPRESENTATIVE Sign In/Out (operating sites only, and signature must be requested. If the operator refuses to sign, note this on the Form)

Sign In: *I have discussed this Job Clearance Form with the contractor*		Sign Out: *I have discussed this Job Clearance Form with the contractor*	
Site Representative Name	**Site Representative Signature**	**Site Representative Name**	**Site Representative Signature**

TWILIGHT TOOL BOX TALK (Complete the following once field activities for the day have been concluded):

Were there any Incidents, Near Misses, Potential Incidents, or Positive Interventions today?	☐ Yes ☒ No	If yes, provide details:
Were there any 'Stop Work' interventions?	☐ Yes ☒ No	If yes, provide details:
Were there any areas for improvement noted?	☐ Yes ☒ No	If yes, provide details:
Is the Site Manager/Owner happy with the way you left the site (including the location of waste drums and/or equipment)?	☒ Yes ☐ No	If no, provide details:
I certify that the above information is true and the job site is being left in a safe condition	☒ Yes ☐ No	GHD Site Supervisor Signature:

HASP Acknowledgment Sheet

Project Name: Harbor Island Project Number: 240918-AR1

This is to certify that I have received a pre-entry briefing regarding this HASP, and I understand its contents. My failure to follow and comply with the requirements contained in this plan may result in disciplinary action and/or termination.

Print Name	Signature	Date
Aimee Rike		9/18/24
Lydia Johnson		9-18-24
Aimee Rike		9/19/24

BLAINE TECH SERVICES

JSA

Groundwater Monitoring at Shell Site / Facility

Date: 9/18/24

Location: Harbor Island Terminal 2555 13th Ave SW Seattle WA

Onsite Work Crew: AR, LJ

PPE -- Personal Protective Equipment	Required (Y/N)	PPE -- Personal Protective Equipment	Required (Y/N)
Steel Toed Safety Shoes	(Y) / N	Respirator	Y / (N)
Hi-Viz Safety Vest (Class 2)	(Y) / N	Hard Hat	(Y) / N
Safety Glasses	(Y) / N	Rain Gear	Y / (N)
Goggles	Y / (N)	Snake Gators	Y / (N)
Face Shield	Y / (N)	Tyvek Coveralls	Y / (N)
Nitrile Gloves	(Y) / N	Fire Resistant Clothing (FRC)	(Y) / N
Kevlar Gloves	(Y) / N	Knee Pads	Y / (N)
Rubber/Neoprene Gloves	Y / (N)	Hi-Viz Safety Jacket or Pants (Class 3)	Y / (N)
Hearing Protection	Y / (N)	Other (list)	Y / (N)

HAZARD ASSESSMENTS:

Whenever you arrive at a new job site, a **Hazard Assessment** is required to identify and evaluate potential hazards. **Hazard Assessments** must be performed prior to each move you make with your vehicle and after you arrive at each new work location or well. **Hazard Assessments** are also required whenever site conditions change. Technicians should maintain a high level of **Situational Awareness**, frequently assessing their safety.

STOP WORK AUTHORITY:

If, at any time, you feel that the work cannot be performed safely, you must **Stop Work and Report** to your Blaine Tech Project Manager.

Adherence to **9 Life Saving Rules** (LSRs) is **REQUIRED**:



My signature *below indicates that I have read this JSA; that I understand the hazards and safe work practices associated with the tasks; and that all requirements and conditions listed above have been met and verified prior to starting the work.*

Name/Signature Aimee Rike / [signature] **Date/Time** 9/18/24 @ 0600

Name/Signature Lydia Johnson / [signature] **Date/Time** 9-18-24 @ 0600

Name/Signature Aimee Rike / [signature] **Date/Time** 9/19/24 @ 0600

Name/Signature _____ **Date/Time** _____

Name/Signature _____ **Date/Time** _____

Name/Signature _____ **Date/Time** _____

Name/Signature _____ **Date/Time** _____

BLAINE TECH SERVICES	Date: 9/18/24	Onsite Work Crew:
JSA **Second Tech Security Overwatch**	Location: Shell Harbor Island 2555 13th Ave SW Seattle WA	AR LJ

PPE -- Personal Protective Equipment	Required (Y/N)	PPE -- Personal Protective Equipment	Required (Y/N)
Steel Toed Safety Shoes	(Y) / N	Respirator	Y / (N)
Hi-Viz Safety Vest (Class 2)	(Y) / N	Hard Hat	(Y) / N
Safety Glasses	(Y) / N	Rain Gear	Y / (N)
Goggles	Y / (N)	Snake Gators	Y / (N)
Face Shield	Y / (N)	Tyvek Coveralls	Y / (N)
Nitrile Gloves	(Y) / N	Fire Resistant Clothing (FRC)	(Y) / N
Kevlar Gloves	(Y) / N	Knee Pads	Y / (N)
Rubber/Neoprene Gloves	Y / (N)	Hi-Viz Safety Jacket or Pants (Class 3)	Y / (N)
Hearing Protection	Y / (N)	Other (list)	Y / (N)

HAZARD ASSESSMENTS:

Whenever you arrive at a new job site, a **Hazard Assessment** is required to identify and evaluate potential hazards. **Hazard Assessments** must be performed prior to each move you make with your vehicle and after you arrive at each new work location or well. **Hazard Assessments** are also required whenever site conditions change. Technicians should maintain a high level of **Situational Awareness**, frequently assessing their safety.

STOP WORK AUTHORITY:

If, at any time, you feel that the work cannot be performed safely, you must **Stop Work and Report** to your Blaine Tech Project Manager.

Adherence to **9 Life Saving Rules** (LSRs) is **REQUIRED**:



Development Team	Document Control System & Issue Authority	
Bart Gebbie, Director of Client Services; Francis Thie, Vice President; Richard Blaine, Vice President	Approved by: Francis Thie, Vice President, 12/27/2021	Issue Authority: Francis Thie, Vice President, 12/27/2021
Retail Engineering and DS SGW FDG Contractor Safety CASE review performed by: Francis Thie, Vice President, 11/11/2020		
Hazard Control Sheets (HCS) Utilized: 6-Excavations, concrete cutting, trenching and drilling; 7-Hot works; 10-Water under pressure; 11-Air under pressure; 13-Slips, Trips and Falls; 19-Moving vehicles to and from site; 20-Moving vehicles off site and forecourt work; 23-Severe weather; 26-Electrical buried supply lines; 29-Benzene; 31-Dust particles; 32-Vermin; 35-Physical effort; 36-Noise; 37-Heat stress; 38-Cold stress; 40-Security; 41-Hazardous Waste		

Work Type	Vapor Pin Install & Sampling at Shell Site / Facility
JSA Type	Summary JSA
Organization	Blaine Tech Services, Inc.

My signature *below indicates that I have read this JSA; that I understand the hazards and safe work practices associated with the tasks; and that all requirements and conditions listed above have been met and verified prior to starting the work.*

Name/Signature Aimee Rike / [signature] **Date/Time** 9/18/24 @ 0600

Name/Signature Lydia Johnson / [signature] **Date/Time** 9-18-24 @0600

Name/Signature Aimee Rike / [signature] **Date/Time** 9/19/24 @ 0600

Name/Signature _____ **Date/Time** _____

Name/Signature _____ **Date/Time** _____

Name/Signature _____ **Date/Time** _____

Name/Signature _____ **Date/Time** _____

Monitoring Well Gauging Field Log - Shoreline

Project No: 11218519
SAP: 357032
PlaNet ID: MIGUS357032
Location: 2555 13th Avenue SW Seattle (Harbor Island Terminal)

Personnel: Annika Pram, Calli Gray
Date: 10/16/24

Well ID	Time Gauged	Depth to Product	Depth to Water	Comments
MW-208 [1]	0822	—	5.91	—
NW-210 [4]	0846	—	6.83	sock replaced, strong petroleum odor, and some staining
MW-211 [2]	0826	—	6.24	—
MW-212 [3]	0832	—	6.35	Not replaced, sock less no petroleum odor/staining



Monitoring Well Gauging Field Log - Shoreline

Project No: 11218519
SAP: 357032
PlaNet ID: MIGUS357032
Location: 2555 13th Avenue SW Seattle (Harbor Island Terminal)

Personnel: ACP, CG

Date: 11 / 14 / 24

Well ID	Time Gauged	Depth to Product	Depth to Water	Comments
MW-208 [1]	0842	—	4.11	
NW-210 [4]	0905	—	5.97	Sock stuck, replaced
MW-211 [2]	0846	—	4.45	
MW-212 [3]	0857	—	3.29	Sock looks good, not replaced



WELL GAUGING DATA

Project # 241216-L31 Date 12-16-24 Client GHD

Site Shell Harbor Island Terminal

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Water/ SPH Meter	PID (PPM)
MW-201	0909	2	—	—	—	—	13.34	21.29		0.0
MW-202	0906	2	—	—	—	—	13.78	21.67		0.0
MW-203	0918	2	—	—	—	—	7.43	13.99		0.0
MW-204	0903	2	—	—	—	—	10.98	17.81		0.0
MW-206A	0920	2	—	—	—	—	9.30	16.60		0.0
MW-101	0946	2	—	—	—	—	10.55	20.10		0.0
MW-102	0938	2	—	—	—	—	7.75	17.51		0.0
MW-301	0810	2	—	—	—	—	5.41	14.62		0.0
MW-302	0807	2	—	—	—	—	5.73	15.04		0.0
MW-303	0813	2	—	—	—	—	5.53	14.75		0.0
MW-304	0803	2	—	—	—	—	5.44	14.75		0.0
MW-307	0945	2	—	—	—	—	8.26	17.54		0.0
MW-308	0943	2	—	—	—	—	7.96	17.40		0.0
MW-309	0817	2	—	—	—	—	5.72	14.68		0.0
MW-310	0805	2	—	—	—	—	6.45	14.70	↓	0.0

Instruments Used: Durham Geoslope Water Level Indicator* GeoTech Oil/Water Interface Probe** Other: _____

Survey Point - Top of casing at all wells

WELL GAUGING DATA

Project # 241216-WJ1 Date 12-16-24 Client GHD

Site Shell Harbor Island Terminal

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Water/ ~~SPH~~ Meter	PID (PPM)	
MW-311	0829	2	—	—	—	—	7.17	15.03		0.0	
MW-312	0920	2	—	—	—	—	7.22	14.87		0.0	12/1
MW-313	0838	2	—	—	—	—	5.52	13.98		0.0	
MW-314	1502	2	—	—	—	—	6.67	14.84		0.0	12/1
MW-315	0859	2	—	—	—	—	7.62	14.68		0.0	
TES-MW-1	0950	4	—	—	—	—	8.78	15.72		0.0	
TX-03A	0944	2	—	—	—	—	5.18	14.90		0.0	12/1
MW-05	0829	2	—	—	—	—	7.76	66.70		0.0	
MW-111	0815	2	—	—	—	—	4.96	14.68		0.0	
MW-112A	0833	2	—	—	—	—	6.23	14.70		0.0	
SH-04	0744	2	—	—	—	—	9.72	18.18		0.0	
MW-604	0824	2	—	—	—	—	5.97	14.76		0.0	
MW-113	0806	2	—	—	—	—	4.96	14.79		0.0	
MW-114	0812	2	—	—	—	—	5.16	14.85		0.0	
MW-115	0810	2	—	—	—	—	4.85	14.56	↓	0.0	

Instruments Used: Durham Geoslope Water Level Indicator* GeoTech Oil/Water Interface Probe** Other: _____

Survey Point - Top of casing at all wells

MW-312, MW-314, & TX-03A were parked over during initial gauging. Gauged 12/17/24

WELL GAUGING DATA

Project # 241216-LJ1 Date 12-16-24 Client GHD

Site Shell Harbor Island Terminal

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Water/ SPH Meter	PID (PPM)
MW-105	0804	2	—	—	—	—	5.00	13.87		0.0
TX-04	0749	2	—	—	—	—	10.15	17.96		0.0
TX-06A	0803	2	—	—	—	—	3.17	14.62		0.0
MW-208	0852	2	—	—	—	—	3.57	13.83		0.0
MW-210	0842	2	odor	—	—	—	5.98	14.79		0.0
MW-211	0846	4	—	—	—	—	3.74	13.29		0.0
MW-212	0847	4	—	—	—	—	3.44	11.75		0.0
MW-213	0855	2	—	—	—	—	4.58	38.92		0.0
MW-214	0845	2	—	—	—	—	4.38	39.71	↓	0.0

Instruments Used: Durham Geoslope Water Level Indicator* GeoTech Oil/Water Interface Probe** Other: _____

Survey Point - Top of casing at all wells

Monitoring Well Gauging Field Log - Shoreline

Date:
Job No:
SAP:
Incident No 300036
Location: 2555 13th Ave SW, Seattle (Harbor Island Terminal)
Personnel:

Well ID	Time Gauged	Depth to Water	Depth to Product	Comments
MW-208	0852	3.57	~~13.8~~	
MW-210	0842	5.98	—	Absorbant sock
MW-211	0846	3.74	—	
MW-212	0847	3.44	—	Absorbant sock

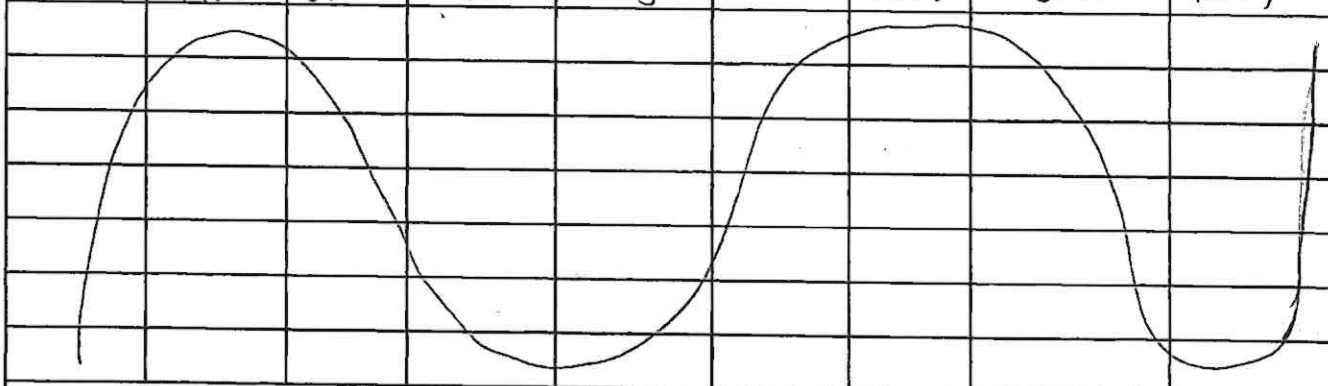
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-LJ1	Client: GHD
Sampler: LJ	Gauging Date: 12-16-24
Well I.D.: MW-201	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 21.29	Depth to Water (ft.): LJ ~~13.78~~ 13.38
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Horiba

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated (Tubing) | New Tubing | Other ___

Start Purge Time: 0850 Flow Rate: 200mL/min Pump Depth: 17'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)	PID
0853	11.50	6.89	84	18	3.00	61.2	600	13.45	0.0
0856	11.36	6.79	82	15	LJ 3.00 ~~3.80~~	66.8	1200	13.47	0.0
0859	11.21	6.71	81	14	3.01	71.1	1800	13.48	0.0
0902	11.17	6.69	81	14	3.01	73.7	2400	13.49	0.0
0905	11.19	6.64	81	13	3.01	75.6	3000	13.49	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000mL

Sampling Time: 0907 Sampling Date: 12-18-24

Sample I.D.: MW-201 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

6 bottles

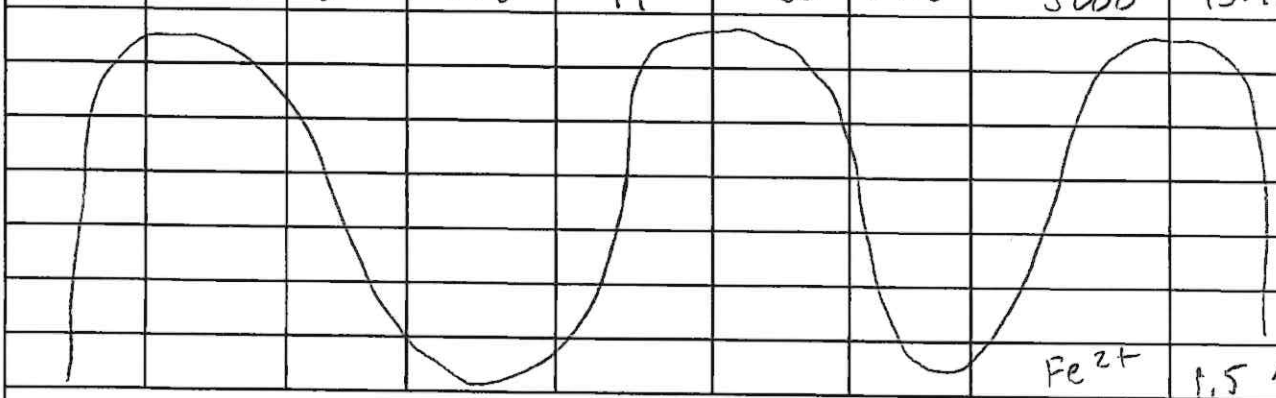
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-LJ1	Client: GHD
Sampler: LJ	Gauging Date: 12-16-24
Well I.D.: MW-202	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 21.67	Depth to Water (ft.): ~~13.34~~ 13.78
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Horiba

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 0824 Flow Rate: 200mL/min Pump Depth: 18'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	P10
0827	12.34	7.29	382	21	2.68	69.2	600	13.87	0.0
0830	12.42	7.10	381	18	2.64	56.0	1200	13.91	0.0
0833	12.43	7.01	380	17	2.61	47.3	1800	13.93	0.0
0836	12.47	6.94	379	16	2.60	40.6	2400	13.95	0.0
0839	12.40	6.92	378	17	2.60	39.8	3000	13.95	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000mL

Sampling Time: 0842 Sampling Date: 12-18-24

Sample I.D.: MW-202 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

9 to bottles

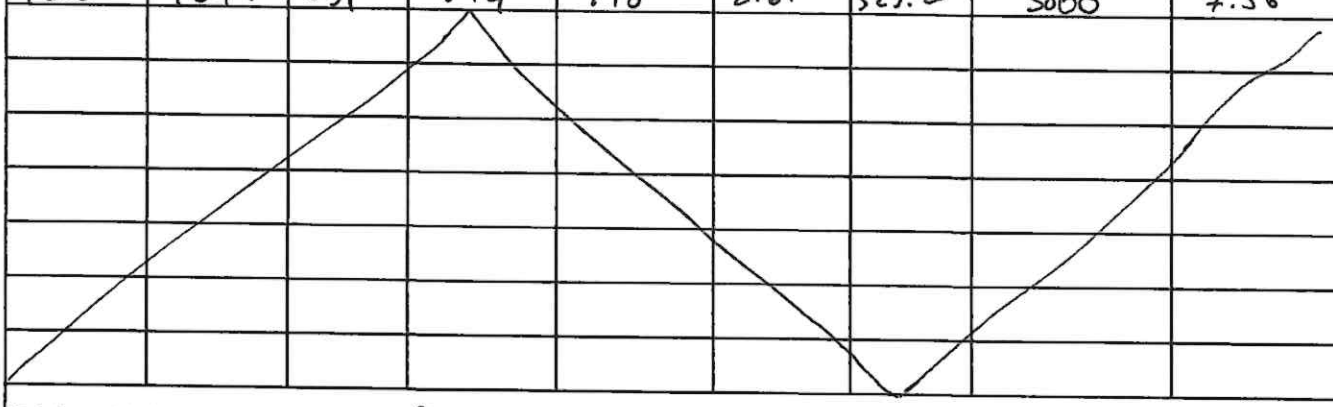
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-L01	Client: GHD
Sampler: MH	Gauging Date: 12/16/24
Well I.D.: MW-203	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 13.99	Depth to Water (ft.): 7.43
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YANNA

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: 1158 Flow Rate: 200 ML/MIN Pump Depth: 10.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1201	13.02	6.33	371	244	2.57	334.7	600	7.45	0.0
1204	12.96	6.32	373	210	2.61	330.4	1200	7.49	0.0
1207	12.77	6.32	373	202	2.60	328.3	1800	7.51	0.0
1210	12.78	6.32	374	201	2.61	326.9	2400	7.55	0.0
1213	12.74	6.31	374	198	2.61	325.2	3000	7.56	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 1216 Sampling Date: 12/16/24

Sample I.D.: MW-203 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE C.O.C

Equipment Blank I.D.: — @ Time — Duplicate I.D.: —

FE+2: 6.5

9

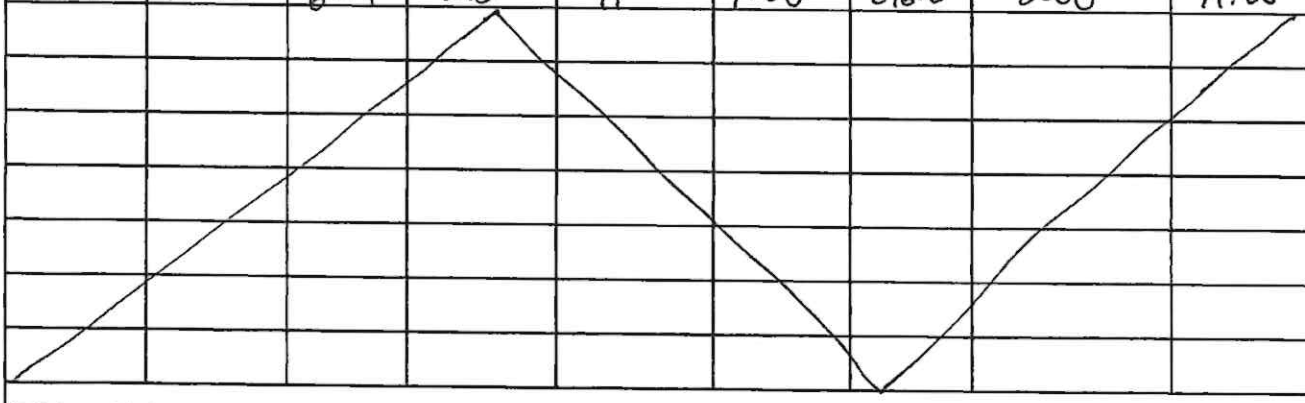
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-W1	Client: GHD
Sampler: MH	Gauging Date: 12/16/24
Well I.D.: MW-204	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 17.81	Depth to Water (ft.): 10.98
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump | (Peristaltic Pump) | Bladder Pump
Sampling Method: Dedicated (Tubing) | New Tubing | Other ___

Start Purge Time: 1233 Flow Rate: 200 ML/MIN Pump Depth: 13'

Time	Temp. (°C) or °F)	pH	Cond. (mS/cm or (µS)/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)	PID
1236	13.65	6.17	319	21	1.89	309.2	600	11.04	0.0
1239	13.69	6.12	316	13	1.89	305.7	1200	11.09	0.0
1242	13.98	6.09	316	11	1.88	301.2	1800	11.15	0.0
1245	14.01	6.10	315	11	1.88	298.4	2400	11.18	0.0
1248	13.95	6.09	315	11	1.88	296.2	3000	11.20	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 1251 Sampling Date: 12/16/24

Sample I.D.: MW-204 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE C.O.C

Equipment Blank I.D.: — @ Time — Duplicate I.D.: —

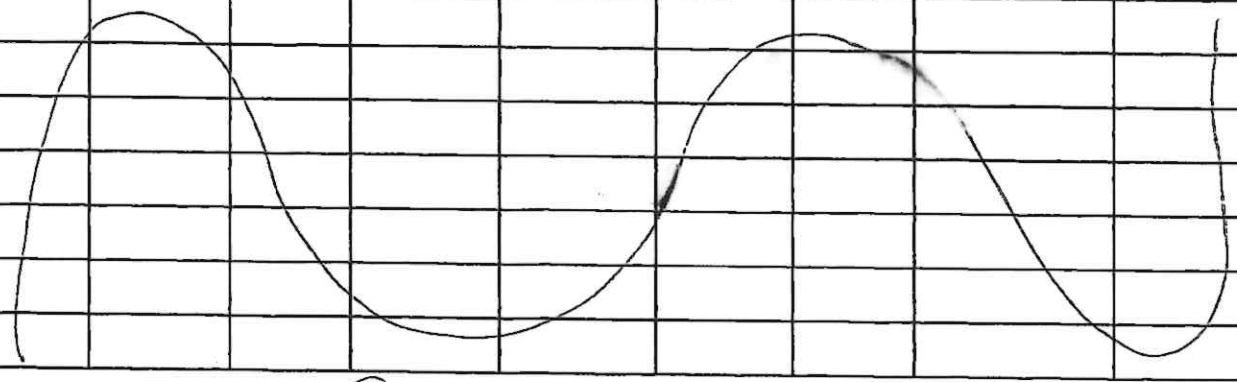
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-LJ1	Client: GHD
Sampler: LJ	Gauging Date: 12-16-24
Well I.D.: MW-206A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 16.60	Depth to Water (ft.): 9.30
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1224 Flow Rate: 200mL/min Pump Depth: 12'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1227	12.86	8.50	521	30	2.62	25.3	600	9.41	0.0
1230	13.02	8.26	519	27	2.57	8.6	1200	9.44	0.0
1233	13.09	8.07	517	22	2.55	4.8	1800	9.45	0.0
1236	13.37	8.03	512	22	2.52	3.7	2400	9.46	0.0
1239	13.50	8.00	512	20	2.51	4.0	3000	9.46	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000mL

Sampling Time: 1242 Sampling Date: 12-16-24

Sample I.D.: MW-206A Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

8 bottles

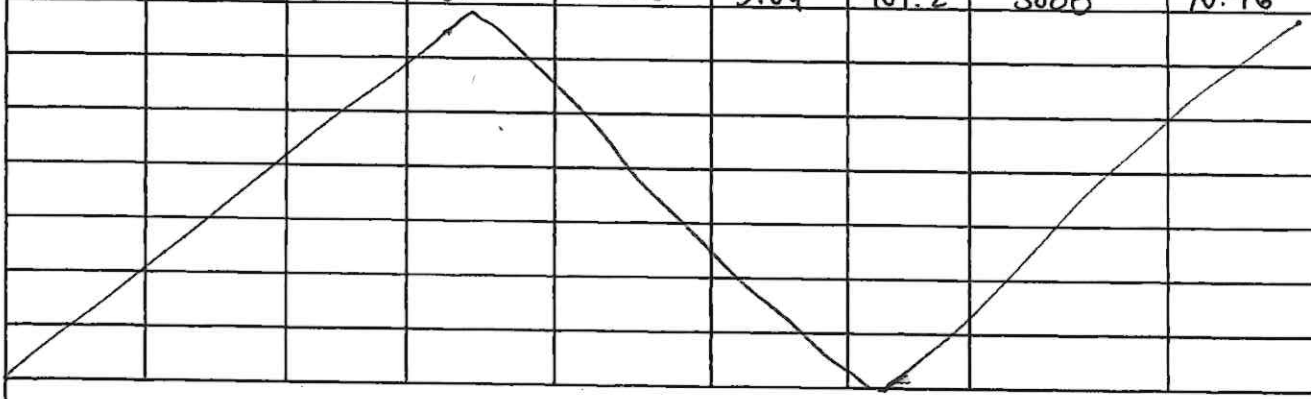
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-LJ1	Client: GHD
Sampler: MH	Gauging Date: 12/16/24
Well I.D.: MW-101	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 20.10	Depth to Water (ft.): 10.55
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1038 Flow Rate: 200 ML/MIN Pump Depth: 12.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1041	12.08	6.58	318	>1000	2.97	387.3	600	10.71	0.0
1044	12.21	6.45	320	>1000	3.01	391.9	1200	10.84	0.0
1047	12.37	6.38	321	>1000	3.03	394.6	1800	10.90	0.0
1050	12.34	6.35	321	>1000	3.03	399.5	2400	10.92	0.0
1053	12.39	6.34	321	>1000	3.04	401.2	3000	10.96	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 1056 Sampling Date: 12/16/24

Sample I.D.: MW-101 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE C.O.C

Equipment Blank I.D.: — @ Time — Duplicate I.D.: —

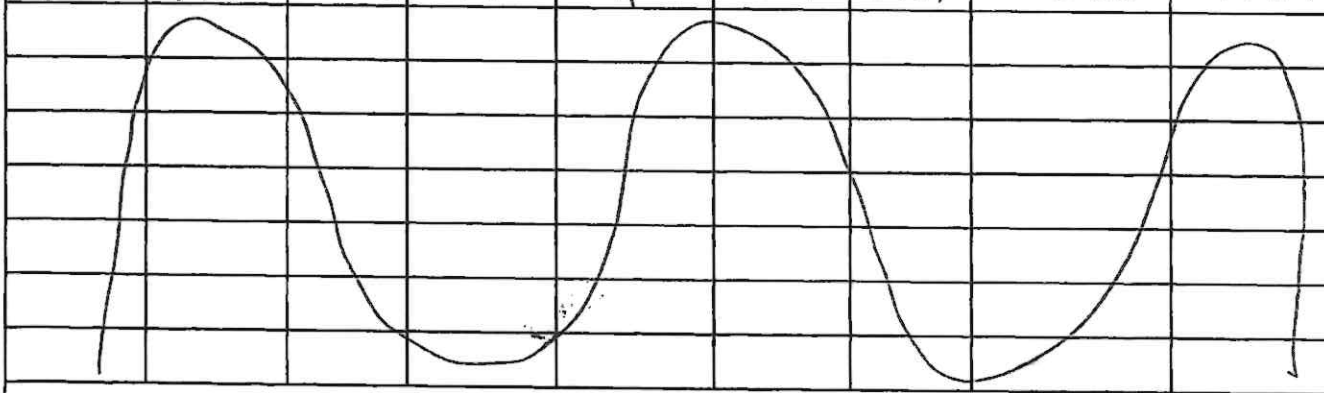
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-LJ1	Client: GHD
Sampler: LJ	Gauging Date: 12-16-24
Well I.D.: MW-102	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 17.51	Depth to Water (ft.): 7.75
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Horiba

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1045 Flow Rate: 200 mL/min Pump Depth: 13'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1048	13.44	7.38	458	15	2.65	52.8	600	7.83	0.0
1051	13.60	7.43	430	12	2.58	50.0	1200	7.84	0.0
1054	13.97	7.42	423	11	2.54	48.5	1800	7.86	0.0
1057	13.96	7.39	417	10	2.53	49.9	2400	7.87	0.0
1100	14.12	7.36	416	11	2.51	51.1	3000	7.87	0.0



Did well dewater? Yes (No)	Amount actually evacuated: 3000mL
Sampling Time: 1102	Sampling Date: 12-16-24
Sample I.D.: MW-102	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

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6 bottles

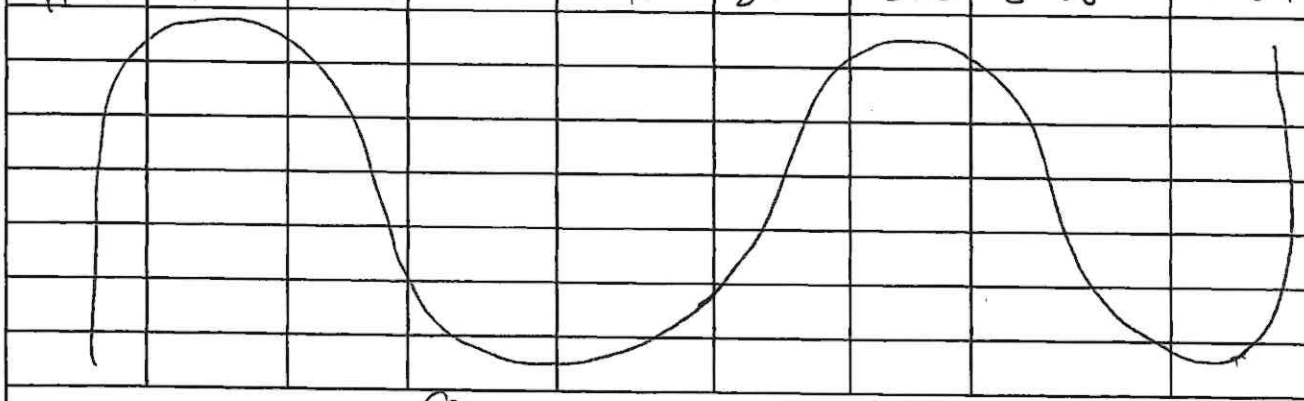
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-LJ1	Client: GHD
Sampler: LJ	Gauging Date: 12-16-24
Well I.D.: MW-301	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.62	Depth to Water (ft.): 5.41
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 1046 Flow Rate: 200 ML/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1049	10.90	6.72	370	16	2.70	34.1	600	5.53	0.0
1052	11.11	6.88	365	14	2.69	39.8	1200	5.56	0.0
1055	10.78	6.98	367	12	2.70	24.4	1800	5.60	0.0
1058	10.51	6.98	364	12	2.72	23.5	2400	5.62	0.0
1101	10.49	6.94	363	11	2.70	24.8	3000	5.64	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000 mL

Sampling Time: 1104 Sampling Date: 12-17-24

Sample I.D.: MW-301 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

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4 bottles

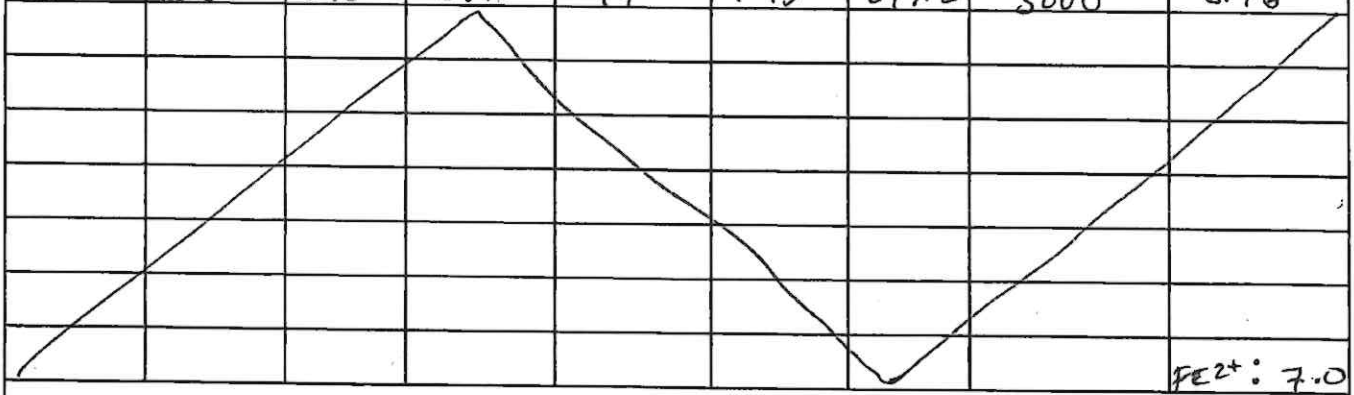
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-L1	Client: GHD
Sampler: MH	Gauging Date: 12/17/24
Well I.D.: MW-302	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 15.04	Depth to Water (ft.): 5.73
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated (Tubing) New Tubing Other ___

Start Purge Time: 0828 Flow Rate: 200 mL/MIN Pump Depth: 10.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)	PID
0831	12.26	6.22	520	22	1.94	289.6	600	5.75	0.0
0834	12.13	6.17	517	18	1.93	291.4	1200	5.75	0.0
0837	12.03	6.14	517	18	1.92	294.9	1800	5.76	0.0
0840	12.07	6.15	517	17	1.93	297.6	2400	5.76	0.0
0843	12.05	6.15	517	17	1.93	299.2	3000	5.76	0.0
								Fe^{2+}: 7.0	



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 0846 Sampling Date: 12/17/24

Sample I.D.: MW-302 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE C.O.C

Equipment Blank I.D.: — @ Time — Duplicate I.D.: —

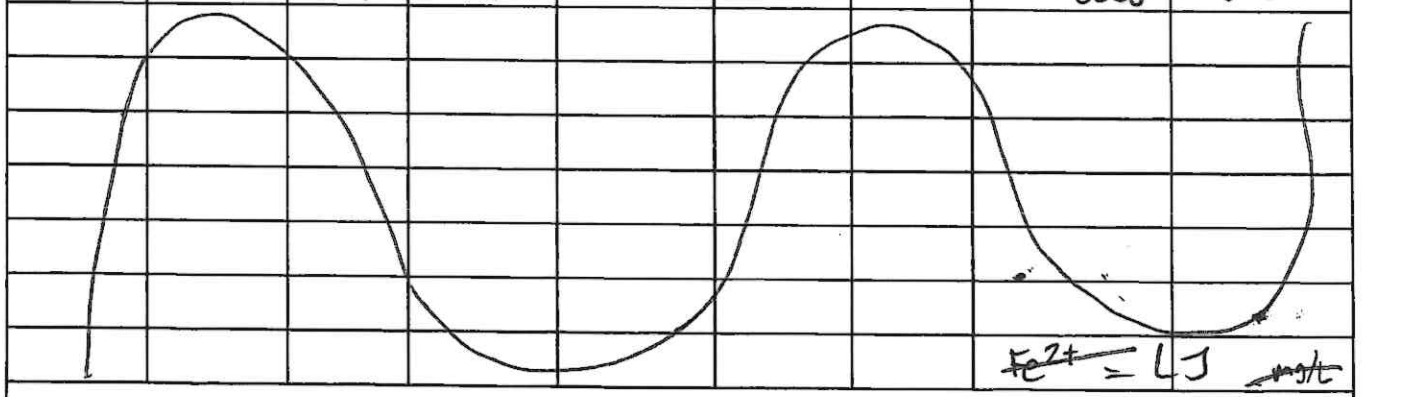
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-L01	Client: GHD
Sampler: LJ	Gauging Date: 12-16-24
Well I.D.: MW-303	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.70	Depth to Water (ft.): 5.53
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1018 Flow Rate: 200 mL/min Pump Depth: 10.5

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1021	10.20	6.85	363	15	2.81	52.6	600	5.63	0.0
1024	10.40	6.78	361	3	2.76	47.6	1200	5.65	0.0
1027	10.31	6.74	360	2	2.75	44.5	1800	5.67	0.0
1030	10.50	6.72	365	2	2.73	39.8	2400	5.68	0.0
1033	10.58	6.69	364	2	2.72	36.7	3000	5.69	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000 mL

Sampling Time: 1036 Sampling Date: 12-17-24

Sample I.D.: MW-303 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

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6 bottles

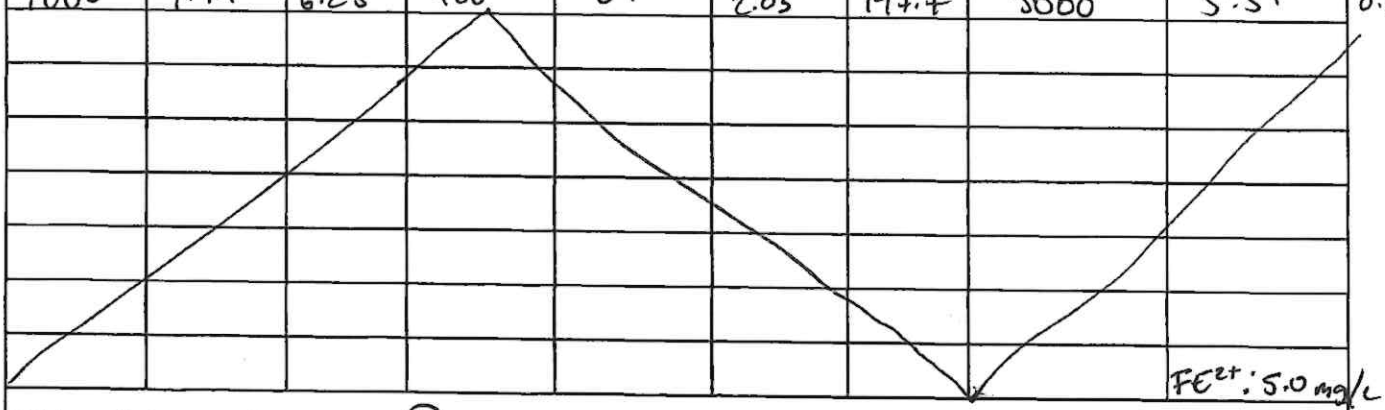
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-L51	Client: GHD
Sampler: MH	Gauging Date: 12/16/24
Well I.D.: MW-304	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.75	Depth to Water (ft.): 5.44
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 0948 Flow Rate: 200 ML/MIN Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0951	10.13	6.32	431	48	2.04	205.9	600	5.49	0.0
0954	9.95	6.29	429	41	2.03	204.6	1200	5.49	0.0
0957	9.95	6.24	426	35	2.03	201.2	1800	5.50	0.0
1000	9.91	6.27	425	33	2.03	199.8	2400	5.50	0.0
1003	9.94	6.25	426	34	2.03	197.7	3000	5.51	0.0



Fe^{2+}: 5.0 mg/L

Did well dewater? Yes (No)	Amount actually evacuated: 3000
Sampling Time: 1006	Sampling Date: 12/17/24
Sample I.D.: MW-304	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C
Equipment Blank I.D.: — @ Time —	Duplicate I.D.: —

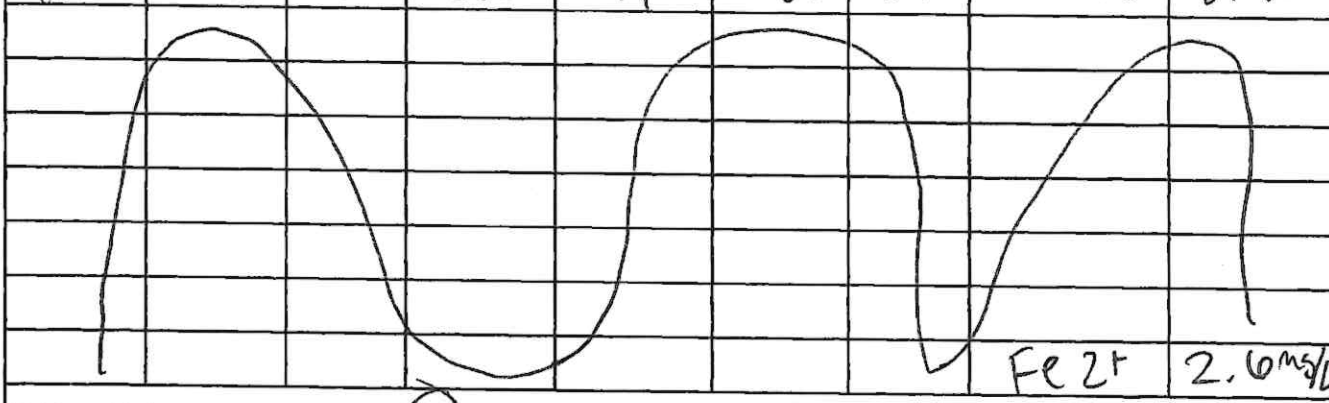
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-L01	Client: GMP
Sampler: LJ	Gauging Date: 12-16-24
Well I.D.: MW-307	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 17.54	Depth to Water (ft.): 8.26
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hama

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 0947 Flow Rate: 200mL/min Pump Depth: 13'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0950	12.82	8.21	315	20	2.71	18.7	600	8.31	0.0
0953	12.79	7.98	314	18	2.68	5.9	1200	8.33	0.0
0956	~~°F~~ 12.82	7.60	312	15	2.64	-4.3	1800	8.37	0.0
0959	12.91	7.54	309	15	2.63	-5.3	2400	8.39	0.0
1002	12.95	7.53	308	14	2.60	-6.1	3000	8.42	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000mL

Sampling Time: 1004 Sampling Date: 12-16-24

Sample I.D.: MW-307 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

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9 bottles

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-LJ1	Client: GMD
Sampler: LJ	Gauging Date: 12-16-24
Well I.D.: MW-308	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 17.40	Depth to Water (ft.): 7.96
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hana

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1014 Flow Rate: 200mL/min Pump Depth: 12.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID.
1017	11.32	7.20	600	39	2.80	34.2	600	8.02	0.0
1020	11.23	7.21	611	22	2.76	35.1	1200	8.03	0.0
1023	11.32	7.16	624	19	2.74	39.9	1800	8.03	0.0
1026	11.38	7.18	630	18	2.71	43.7	2400	8.04	0.0
1029	11.45	7.17	631	18	2.70	44.9	3000	8.06	0.0
							Fe 2+	0.5 mg/L	

Did well dewater? Yes (No) Amount actually evacuated: 3000mL

Sampling Time: 1031 Sampling Date: 12-16-24

Sample I.D.: MW-308 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

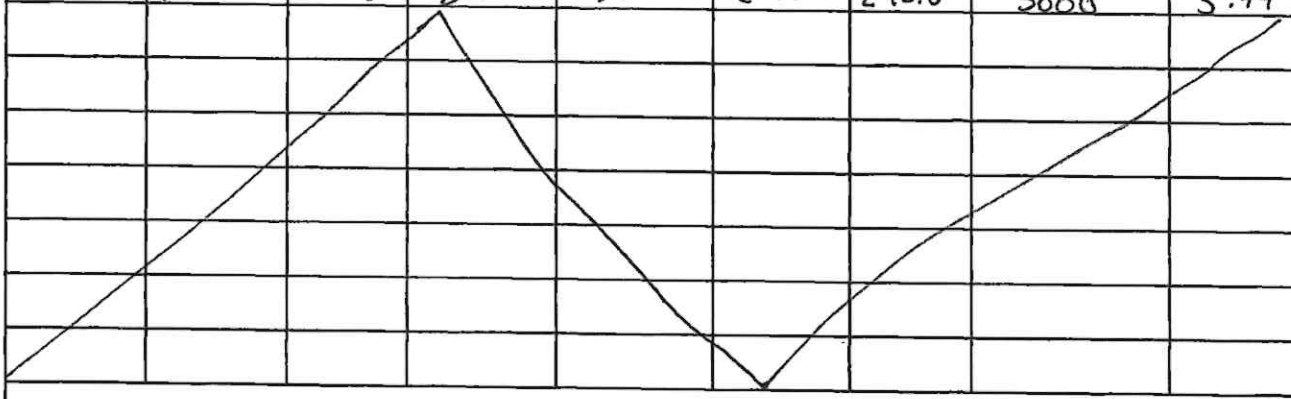
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-L51	Client: GHD
Sampler: MH	Gauging Date: 12/16/24
Well I.D.: MW-309	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.68	Depth to Water (ft.): 5.72
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: 1130 Flow Rate: 200 ML/MIN Pump Depth: 10.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1133	12.04	6.35	316	34	2.52	249.6	600	5.73	0.0
1136	11.96	6.31	315	35	2.51	247.2	1200	5.73	0.0
1139	11.89	6.30	315	33	2.50	245.9	1800	5.74	0.0
1142	11.84	6.29	313	33	2.52	245.1	2400	5.74	0.0
1145	11.85	6.28	313	32	2.52	243.5	3000	5.74	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 1148 Sampling Date: 12/17/24

Sample I.D.: MW-309 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE CO.C

Equipment Blank I.D.: — @ Time — Duplicate I.D.: —

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-L01	Client: GHD
Sampler: MH	Gauging Date: 12/16/24
Well I.D.: MW-310	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.70	Depth to Water (ft.): 6.45
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated (Tubing) New Tubing Other ___

Start Purge Time: 1025 Flow Rate: 200 ML/MIN Pump Depth: 10.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1028	9.22	6.26	570	45	2.10	164.5	600	6.40	0.0
1031	9.16	6.23	566	43	2.10	161.2	1200	6.40	0.0
1034	9.07	6.21	566	43	2.08	159.7	1,800	6.41	0.0
1037	9.05	6.23	566	40	2.07	158.4	2400	6.41	0.0
1040	9.01	6.23	565	41	2.07	156.5	3000	6.41	0.0
								FE^{2+}: 5.75 mg/L	

Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 1043 Sampling Date: 12/17/24

Sample I.D.: MW-310 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE C.O.C

Equipment Blank I.D.: — @ Time — Duplicate I.D.: —

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-LJ1	Client: GHD
Sampler: LJ	Gauging Date: 12-16-24
Well I.D.: MW-311	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 15.03	Depth to Water (ft.): 7.17
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 0909 Flow Rate: 200mL/min Pump Depth: 11'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0912	11.59	7.08	527	5	2.73	42.0	600	7.28	0.0
0915	11.52	7.10	549	5	2.71	33.6	1200	7.30	0.0
0918	11.91	7.09	547	5	2.68	24.7	1800	7.33	0.0
0921	12.00	7.11	546	5	2.65	21.5	2400	7.35	0.0
0924	11.92	7.14	544	5	2.64	16.6	3000	7.36	0.0
							Fe^{2+}	2.0 mg/L	

Did well dewater? Yes (No) Amount actually evacuated: 3000mL

Sampling Time: 0927 Sampling Date: 12-17-24

Sample I.D.: MW-311 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

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7 bottles

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-L01	Client: GHD
Sampler: MH	Gauging Date: 12/16/24
Well I.D.: MW-312	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.87	Depth to Water (ft.): 7.22
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated (Tubing) New Tubing Other ___

Start Purge Time: 0907 Flow Rate: 200 ML/MIN Pump Depth: 11'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)	PID
0910	13.17	6.35	511	4	1.89	234.9	600	7.23	0.0
0913	13.29	6.33	510	2	1.89	233.1	1200	7.23	0.0
0916	13.41	6.30	510	2	1.89	230.2	1800	7.23	0.0
0919	13.37	6.29	509	2	1.88	228.1	2400	7.24	0.0
0922	13.39	6.30	510	2	1.88	225.8	3000	7.24	0.0
								Fe^{2+}: 4.0	mg/L

Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 0925 Sampling Date: 12/17/24

Sample I.D.: MW-312 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE C.O.C

Equipment Blank I.D.: — @ Time — Duplicate I.D.: —

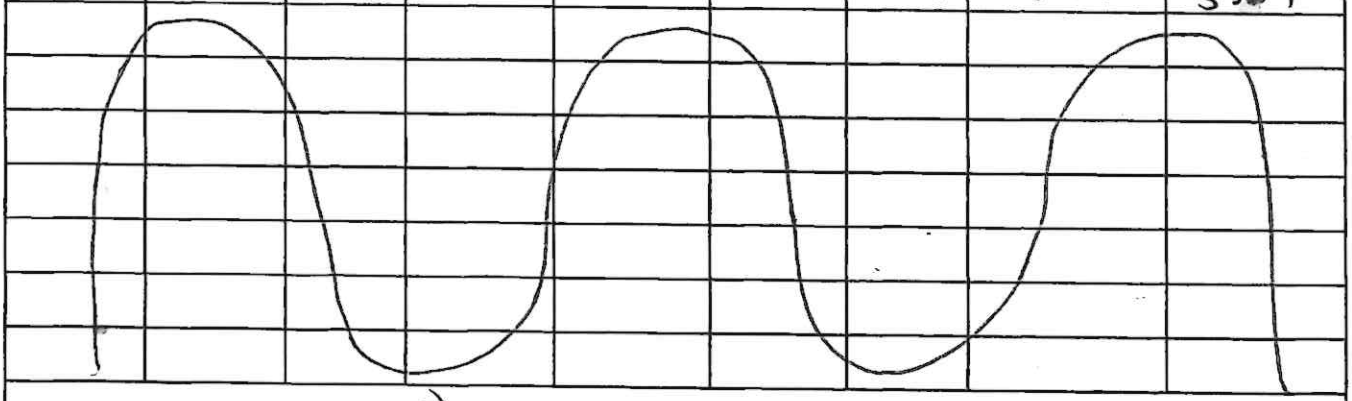
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-LJ1	Client: GHD
Sampler: LJ	Gauging Date: 12-16-24
Well I.D.: MW-313	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 13.98	Depth to Water (ft.): 5.52
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Horiba

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 0821 Flow Rate: 200 mL/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0824	11.84	7.93	584	40	3.08	67.3	600	5.61	0.0
0827	12.33	7.86	577	40	6.6 LJ 2.74	66.3	1200	5.62	0.0
0830	12.27	7.83	578	37	2.91	66.2	1800	5.63	0.0
0833	12.20	7.76	573	36	2.83	67.4	2400	5.63	0.0
0836	12.00	7.74	576	35	2.86	68.9	3000	5.64	0.0



Did well dewater? Yes (No)	Amount actually evacuated: 3000mL
Sampling Time: 0838	Sampling Date: 12-17-24
Sample I.D.: MW-313	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

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6 bottles

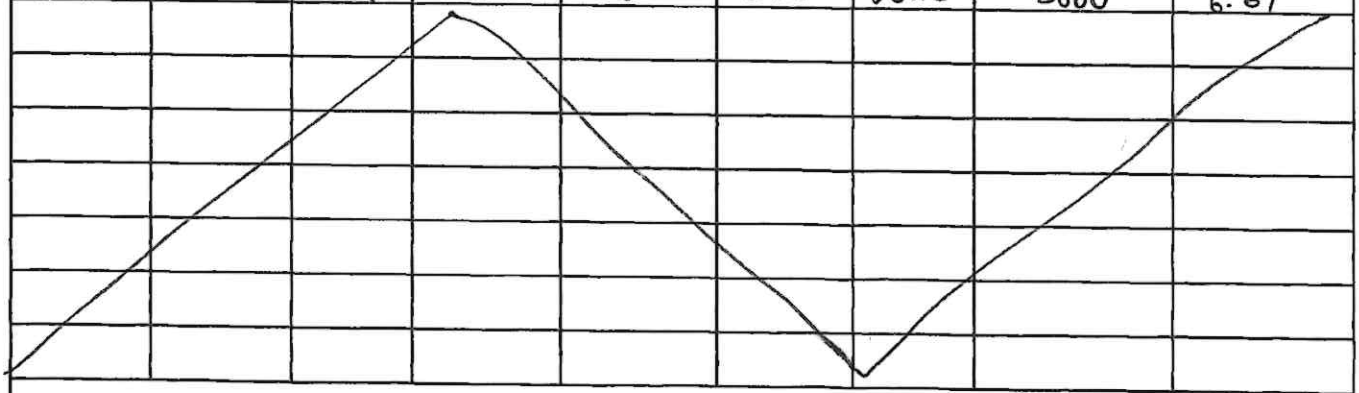
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-L31	Client: GHD
Sampler: MH	Gauging Date: 12/17/24
Well I.D.: MW-314	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.84	Depth to Water (ft.): 6.67
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated (Tubing) New Tubing Other ___

Start Purge Time: 1506 Flow Rate: 200 mL/MIN Pump Depth: 11'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1509	13.07	6.08	858	8	2.02	310.1	600	6.68	0.0
1512	13.18	6.10	857	8	2.02	308.1	1200	6.68	0.0
1515	13.27	6.06	857	8	2.02	306.9	1800	6.68	0.0
1518	13.22	6.05	856	8	2.03	306.1	2400	6.69	0.0
1521	13.30	6.01	856	8	2.03	305.8	3000	6.69	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 1524 Sampling Date: 12/17/24

Sample I.D.: MW-314 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE C.O.C

Equipment Blank I.D.: — @ Time — Duplicate I.D.: —

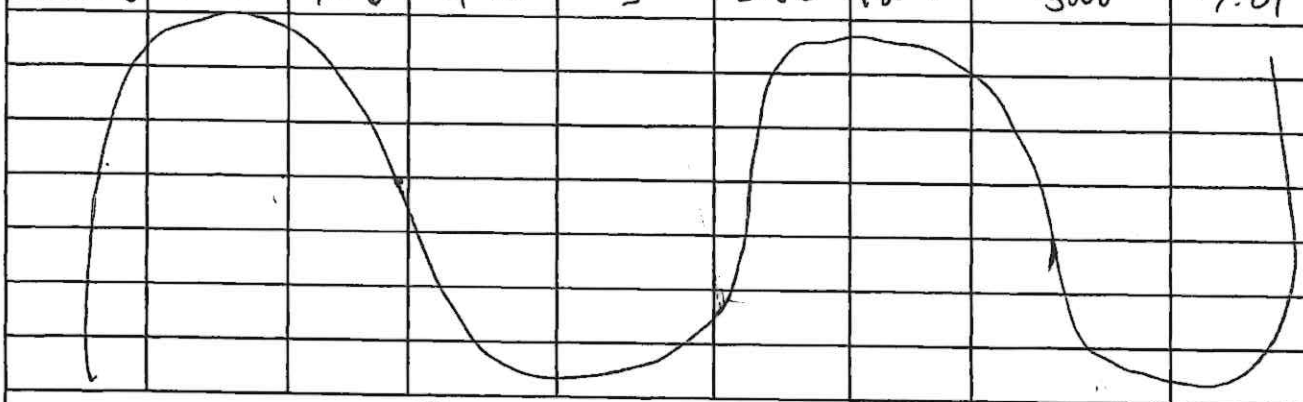
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-LJ1	Client: GHD
Sampler: LJ	Gauging Date: 12-16-24
Well I.D.: MW-315	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.68	Depth to Water (ft.): 7.62 LJ
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 0843 Flow Rate: 200mL/min Pump Depth: 11.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0846	12.92	7.48	489	10	2.72	54.5	600	7.75	0.0
0849	13.62	7.40	484	4	2.63	36.9	1200	7.77	0.0
0852	13.35	7.35	485	3	2.64	27.7	1800	7.79	0.0
0855	13.53	7.30	485	3	2.62	22.7	2400	7.80	0.0
0858	13.37	7.26	490	3	2.62	18.7	3000	7.81	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000 mL

Sampling Time: 901 Sampling Date: 12-17-24

Sample I.D.: MW-315 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

6 bottles

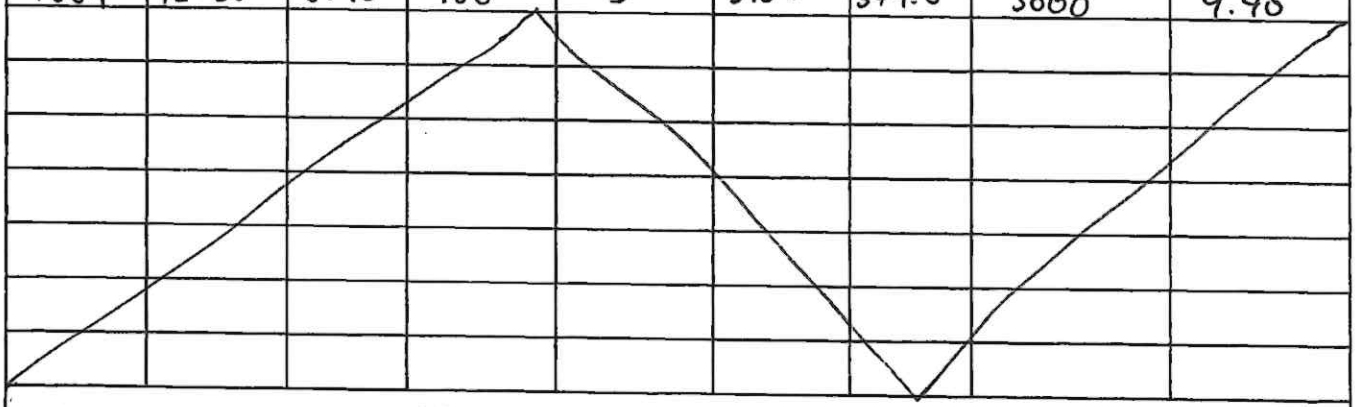
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-LW1	Client: GHD
Sampler: MH	Gauging Date: 12/16/24
Well I.D.: TES-MW-1	Well Diameter (in.): ~~2~~ MW3 (4) 6 8 ___
Total Well Depth (ft.): 15.72	Depth to Water (ft.): 8.78
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 0954 Flow Rate: 200 ML/MIN Pump Depth: 12.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)	PID
0957	12.09	7.21	106	3	3.54	362.0	600	8.99	0.0
1000	12.13	7.19	106	3	3.54	366.1	1200	9.23	0.0
1003	12.17	7.02	106	3	3.54	370.8	1800	9.34	0.0
1006	12.21	6.99	106	3	3.54	375.4	2400	9.37	0.0
1009	12.26	6.96	106	3	3.54	379.3	3000	9.40	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 1012 Sampling Date: 12/16/24

Sample I.D.: TES-MW-1 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE C.O.C

Equipment Blank I.D.: — @ Time — Duplicate I.D.: —

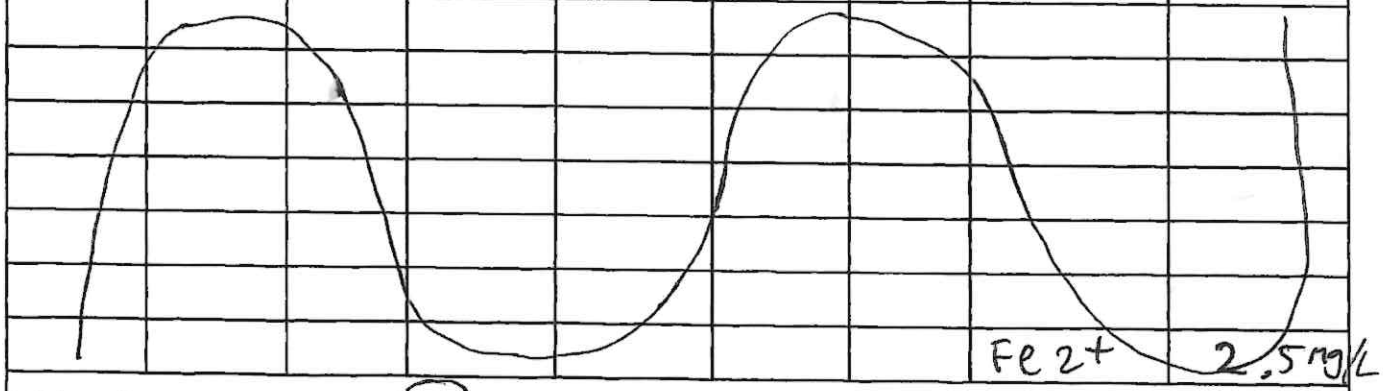
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-L31	Client: GHD
Sampler: LJ	Gauging Date: 12-17-24
Well I.D.: TX-03A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.90	Depth to Water (ft.): 5.18
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Horiba

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 0947 Flow Rate: 200 mL/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0950	11.69	7.39	310	19	2.73	40.1	600	5.26	0.0
0953	12.29	7.30	295	18	2.91	24.8	1200	5.28	0.0
0956	12.35	7.30	291	14	2.65	18.7	1800	5.30	0.0
0959	12.39	7.30	289	14	2.64	18.1	2400	5.31	0.0
1002	12.22	7.26	289	13	2.63	15.2	3000	5.32	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000 mL

Sampling Time: 1005 Sampling Date: 12-17-24

Sample I.D.: TX-03A Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

9 bottles

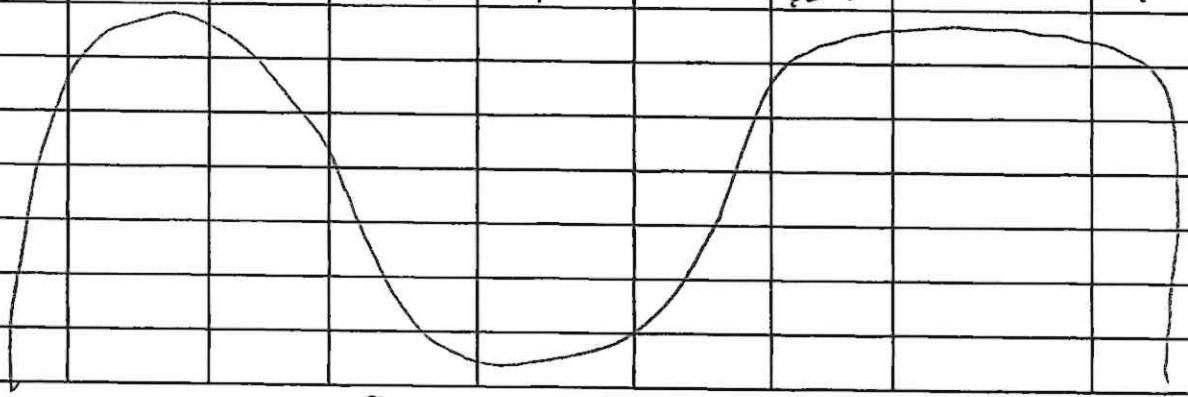
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-LJ1	Client: GHD
Sampler: LJ	Gauging Date: 12-16-24
Well I.D.: MW-05	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 66.70	Depth to Water (ft.): 7.76
Depth to Free Product: ___	Thickness of Free Product (feet): ___
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1016 Flow Rate: 200mL/min Pump Depth: 37.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1019	14.17	6.40	85	14	2.71	74.5	600	7.87	0.0
1022	14.75	6.47	86	14	2.66	71.1	1200	7.89	0.0
1025	14.97	6.65	86	12	2.65	63.1	1800	7.90	0.0
1028	15.01	6.69	87	11	2.63	62.3	2400	7.90	0.0
1031	14.88	6.69	88	11	2.60	62.6	3000	7.91	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3050mL

Sampling Time: 1034 Sampling Date: 12-18-24

Sample I.D.: MW-05 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

6 bottles

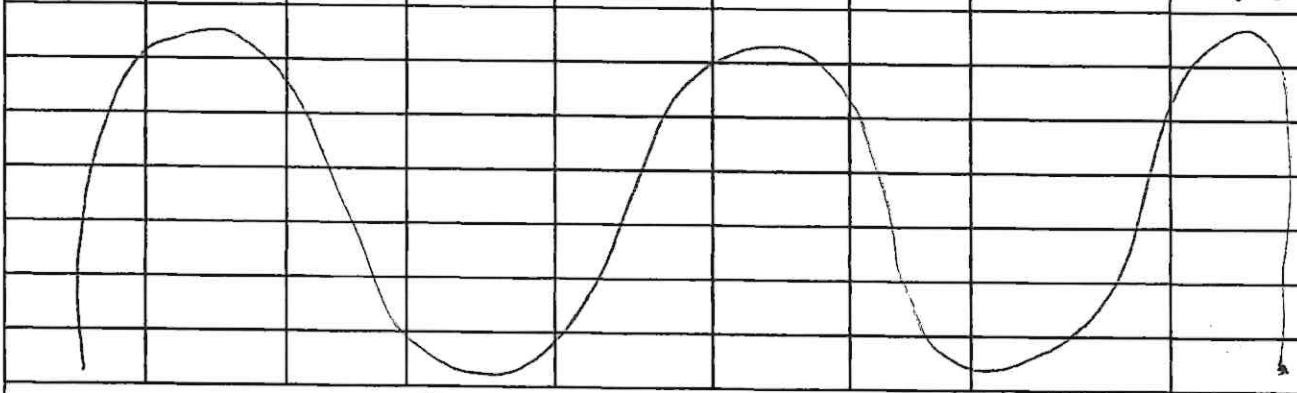
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-LJ1	Client: GHD
Sampler: LJ	Gauging Date: 12-16-24
Well I.D.: MW-111	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.68	Depth to Water (ft.): 4.96
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 0924 Flow Rate: 200 mL/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0927	14.48	6.77	241	18	2.56	49.0	600	5.03	0.0
0930	14.50	6.82	237	19	2.53	50.3	1200	5.04	0.0
0933	14.54	6.84	227	17	2.50	50.3	1800	5.04	0.0
0936	14.62	6.83	225	18	2.49	50.1	2400	5.04	0.0
0939	14.53	6.82	223	17	2.47	51.3	3000	5.04	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000mL

Sampling Time: 0941 Sampling Date: 12-18-24

Sample I.D.: MW-111 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

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6 bottles

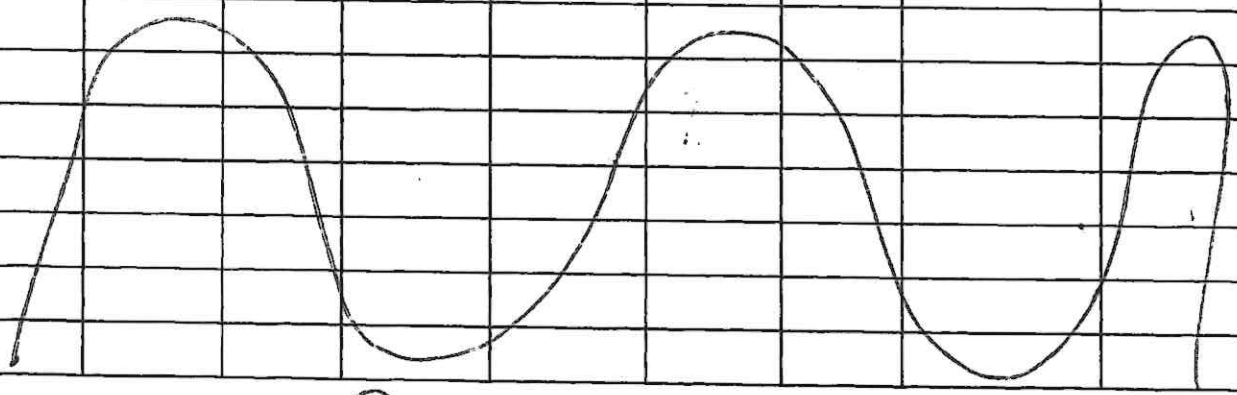
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-LJ1	Client: GHD
Sampler: LJ	Gauging Date: 12-16-24
Well I.D.: MW-112A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): ~~LJ 18.18~~ 14.20	Depth to Water (ft.): 6.23
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1212 Flow Rate: 200 mL/min Pump Depth: ~~12 LS~~ 10.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1215	8.88	6.74	372	26	2.88	66.9	600	6.34	0.6
1218	8.63	6.73	376	27	2.86	63.0	1200	6.37	0.0
1221	8.55	6.73	379	25	2.85	60.1	1800	6.39	0.0
1224	8.37	6.72	380	26	2.84	58.3	2400	6.41	0.0
1227	8.29	6.71	379	25	2.85	56.5	3000	6.41	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000mL

Sampling Time: 1229 Sampling Date: 12-17-24

Sample I.D.: MW-112A Laboratory: TA S

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

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6 bottles

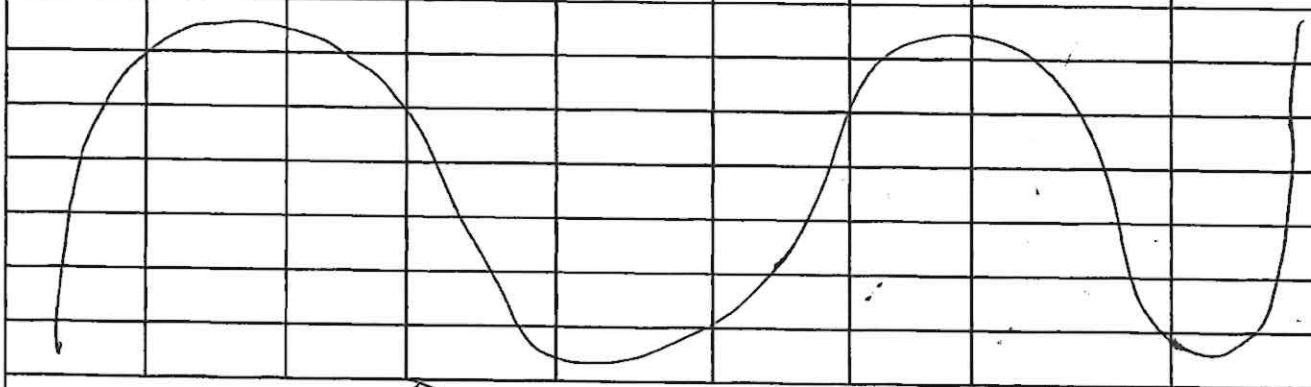
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-LJ1	Client: GHD
Sampler: LJ	Gauging Date: 12-16-24
Well I.D.: SH-04	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 18.18	Depth to Water (ft.): 9.72
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (TOC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1129 Flow Rate: 200 mL/min Pump Depth: 14'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1130	12.08	7.20	356	22	2.67	28.6	600	9.85	0.0
1133	12.43	7.19	356	11	2.63	30.2	1200	9.91	0.0
1136	12.51	7.18	356	10	2.61	32.9	1800	9.94	0.0
1139	12.55	7.15	358	10	2.59	35.0	2400	9.97	0.0
1142	12.58	7.12	360	10	2.58	36.7	3000	9.99	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000mL

Sampling Time: 1145 Sampling Date: ~~12-16 LJ~~ 12-17-24

Sample I.D.: SH-04 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

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6 bottles

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-LJ1	Client: GHD
Sampler: LJ	Gauging Date: 12-16-24
Well I.D.: MW-104	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.76	Depth to Water (ft.): 5.97
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: 0948 Flow Rate: 200mL/min Pump Depth: 10.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
0951	15.35	7.16	47	22	2.54	48.3	600	6.03	0.0
0954	15.65	7.07	41	16	2.47	48.9	1200	6.06	0.0
0957	15.88	7.02	41	17	2.44	50.2	1800	~~6.10~~ LJ 6.10	0.0
1000	15.97	6.99	42	16	2.42	50.6	2400	6.12	0.0
1003	15.72	6.95	42	16	2.43	51.1	3000	6.13	0.0

Did well dewater? Yes (No) Amount actually evacuated: 3000mL

Sampling Time: 1005 Sampling Date: 12-18-24

Sample I.D.: MW-104 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

7 bottles

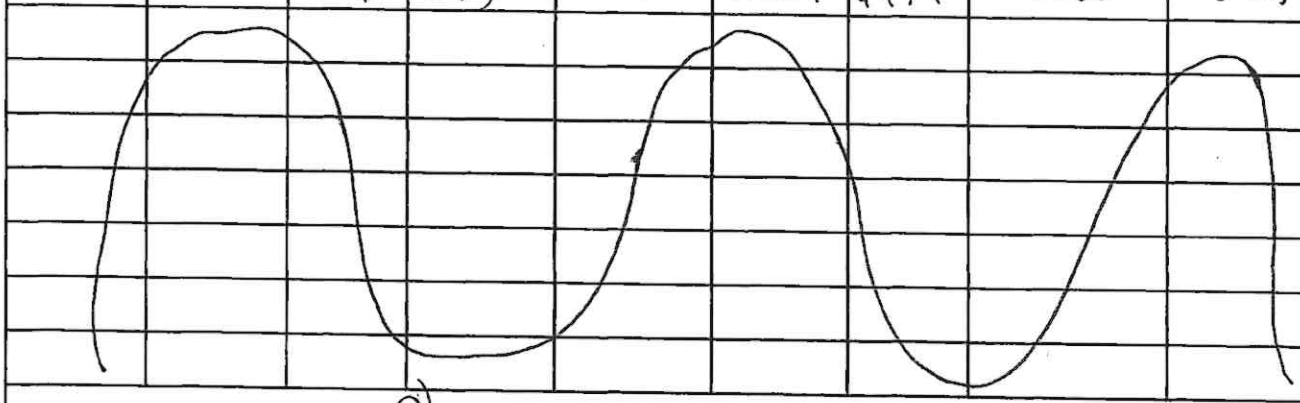
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-G1	Client: GHD
Sampler: GJ	Gauging Date: 12-16-24
Well I.D.: MW-113	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.79	Depth to Water (ft.): 4.96
Depth to Free Product: ___	Thickness of Free Product (feet): ___
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1356 Flow Rate: 200 mL/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1359	13.11	7.09	209	4	2.59	51.5	600	5.02	0.0
1402	13.14	7.12	211	1	2.58	49.8	1200	5.04	0.0
1405	12.99	7.16	212	1	2.56	48.5	1800	5.05	0.0
1408	13.14	7.12	211	1	2.58	49.8	2400	5.05	0.0
1411	13.08	7.16	213	1	2.57	44.9	3000	5.05	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000 mL

Sampling Time: 1413 Sampling Date: 12-17-24

Sample I.D.: MW-113 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

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6 bottles

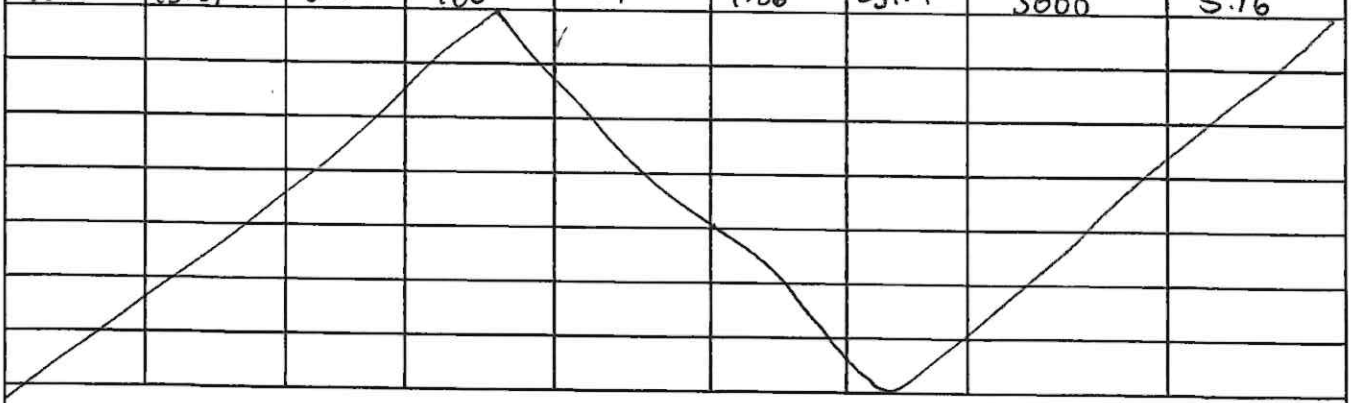
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-L31	Client: GHD
Sampler: MH	Gauging Date: 12/16/24
Well I.D.: MW-114	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.85	Depth to Water (ft.): 5.16
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated (Tubing) New Tubing Other ___

Start Purge Time: 1336 Flow Rate: 200 mL/MIN Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)	PID
1339	13.67	6.62	182	23	1.89	235.5	600	5.16	0.0
1342	13.72	6.61	182	23	1.87	235.1	1200	5.16	0.0
1345	13.59	6.57	180	20	1.86	233.5	1800	5.16	0.0
1348	13.55	6.57	179	19	1.86	232.3	2400	5.16	0.0
1351	13.61	6.56	180	19	1.86	231.7	3000	5.16	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 1354 Sampling Date: 12/17/24

Sample I.D.: MW-114 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE C.O.C.

Equipment Blank I.D.: — @ Time — Duplicate I.D.: —

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

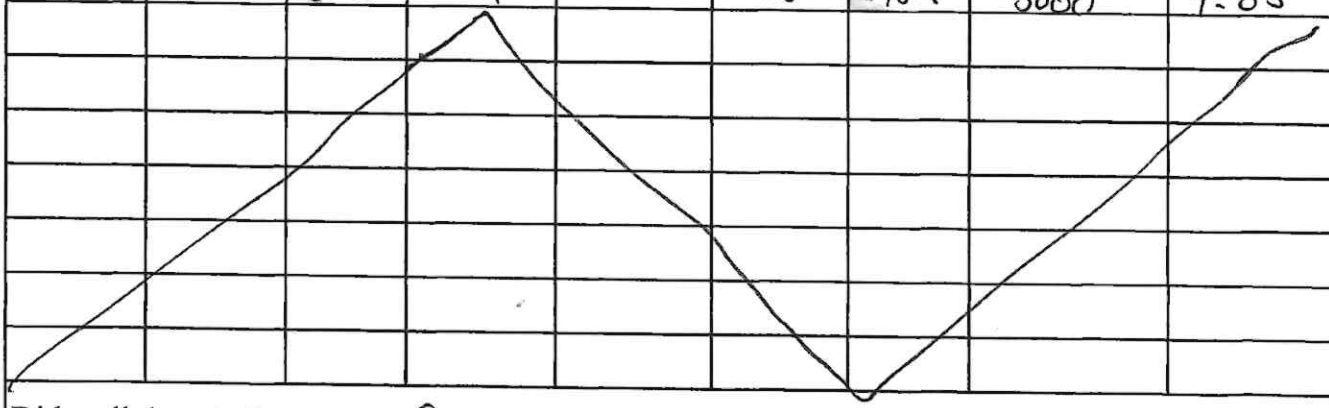
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-L01	Client: GHD
Sampler: MH	Gauging Date: 12/16/24
Well I.D.: MW-115	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 14.56	Depth to Water (ft.): 4.85
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated (Tubing) New Tubing Other ____

Start Purge Time: 1405 Flow Rate: 200 ML/MIN Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1408	13.78	6.27	208	2	1.90	232.5	600	4.85	0.0
1411	13.70	6.35	207	2	1.87	250.6	1200	4.85	0.0
1414	13.75	6.39	205	2	1.86	249.9	1800	4.85	0.0
1417	13.72	6.39	205	2	1.86	248.4	2400	4.85	0.0
1420	13.69	6.40	204	2	1.86	246.4	3000	4.85	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 1423 Sampling Date: 12/17/24

Sample I.D.: MW-115 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE C.O.C

Equipment Blank I.D.: — @ Time — Duplicate I.D.: —

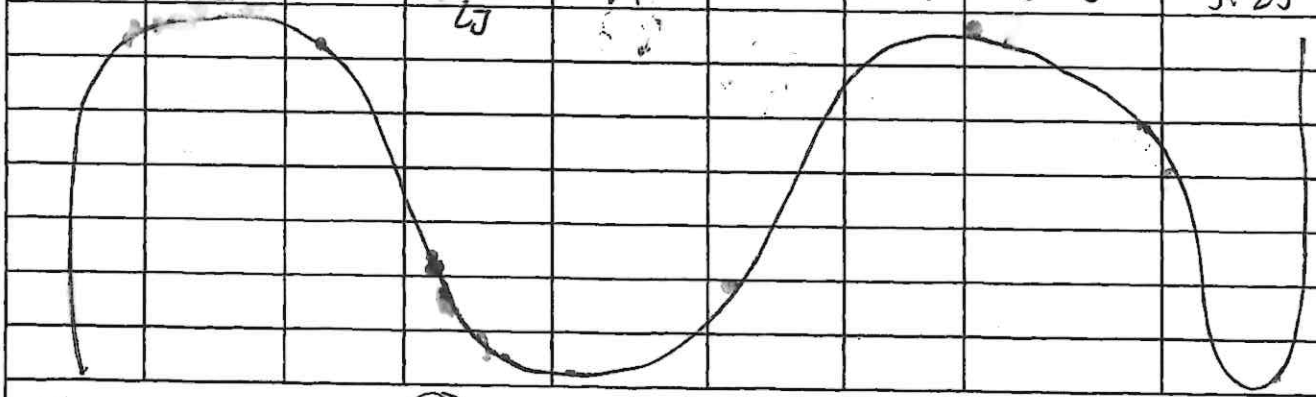
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-LJ1	Client: GHD
Sampler: LJ	Gauging Date: 12-16-24
Well I.D.: MW-10S	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 13.87	Depth to Water (ft.): 5.00
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated (Tubing) | New Tubing | Other ___

Start Purge Time: 1330 Flow Rate: 200 mL/min Pump Depth: 9.51

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1333	11.90	7.53	54	22	2.87	46.9	600	5.15
1336	11.81	7.53	42	16	2.88	52.6	1200	5.18
1339	11.47	7.53	38	15	2.91	54.2	1800	5.20
1342	11.61	7.56	35	15	2.92	52.8	2400	5.22
1345	11.51	7.50	~~36~~ 36 LJ	14	2.95	53.1	3000	5.23



Did well dewater? Yes (No) Amount actually evacuated: 3000mL

Sampling Time: 1347 Sampling Date: 12-17-24

Sample I.D.: MW-10S Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

7 bottles

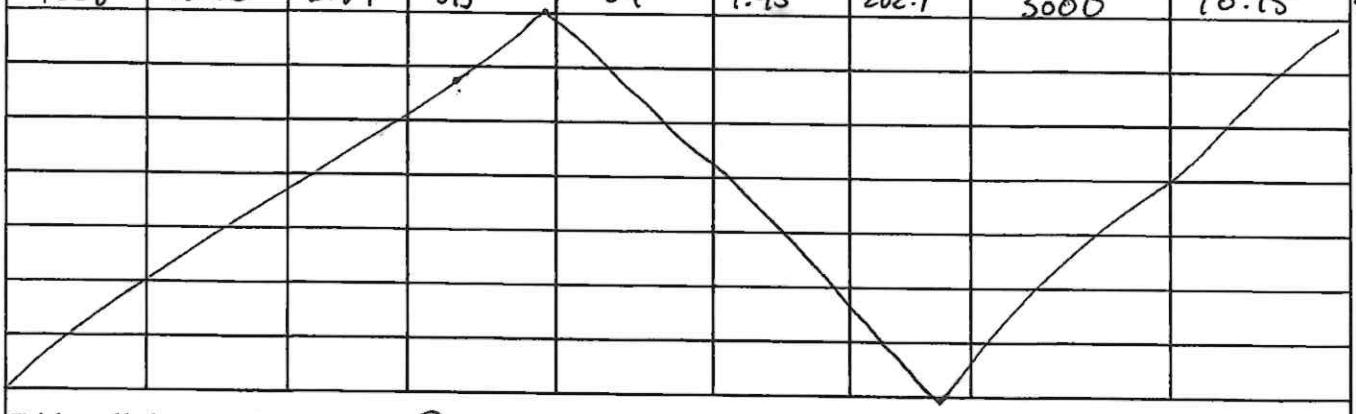
LOW FLOW WELL MONITORING DATA SHEET

Project #: 24216-001	Client: GHD
Sampler: MH	Gauging Date: 12/16/24
Well I.D.: TX-04	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 17.96	Depth to Water (ft.): 10.15
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: 1213 Flow Rate: 200 mL/MIN Pump Depth: 13'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1216	11.94	6.32	314	26	1.96	206.3	600	10.15	0.0
1219	11.82	6.35	314	26	1.95	205.1	1200	10.15	0.0
1222	11.68	6.39	314	24	1.95	203.5	1800	10.15	0.0
1225	11.76	6.40	313	24	1.96	202.5	2400	10.15	0.0
1228	11.72	6.39	313	24	1.95	202.1	3000	10.15	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 1231 Sampling Date: 12/17/24

Sample I.D.: TX-04 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE COC

Equipment Blank I.D.: — @ Time — Duplicate I.D.: —

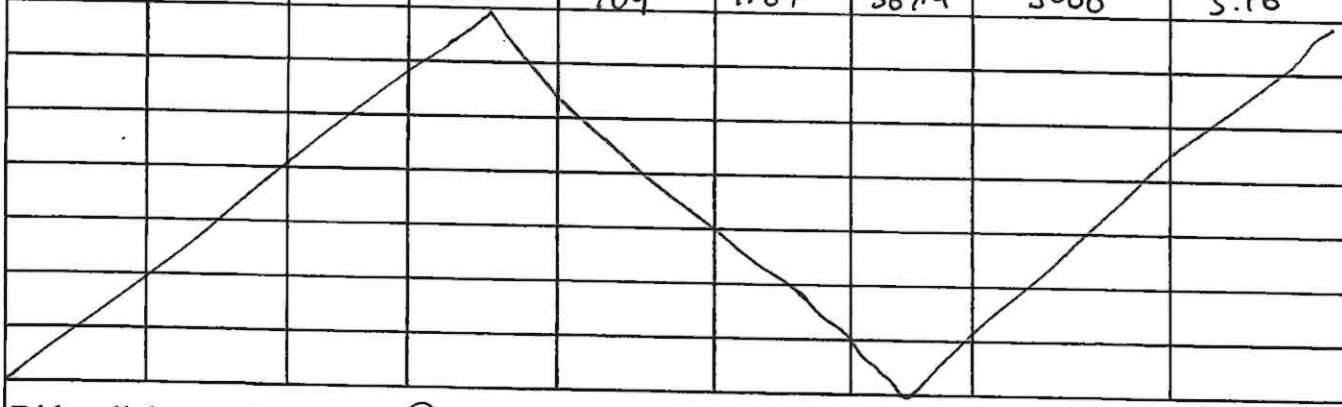
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-LJ1	Client: GHD
Sampler: MH	Gauging Date: 12/16/24
Well I.D.: TX-06A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.62	Depth to Water (ft.): 3.17
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: HANNA

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated (Tubing) New Tubing Other ___

Start Purge Time: 1121 Flow Rate: 200 ML/MIN Pump Depth: 10.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1124	13.45	6.26	574	125	1.88	379.2	600	3.17	0.0
1127	13.65	6.25	573	112	1.88	381.7	1200	3.17	0.0
1130	13.72	6.21	571	112	1.88	384.9	1800	3.18	0.0
1133	13.66	6.19	570	107	1.87	387.3	2400	3.18	0.0
1136	13.70	6.18	571	109	1.87	389.4	3000	3.18	0.0



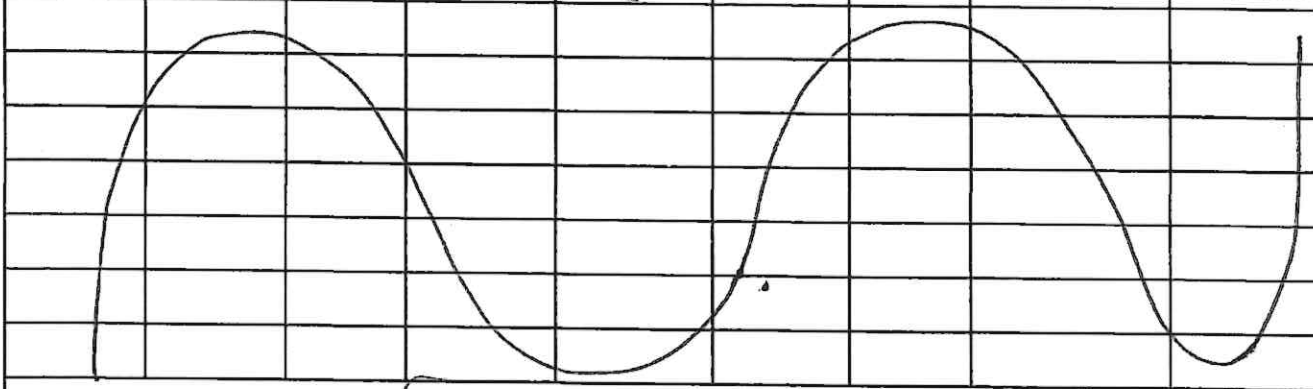
Did well dewater? Yes (No)	Amount actually evacuated: 3000
Sampling Time: 1139	Sampling Date: 12/16/24
Sample I.D.: TX-06A	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: SEE C.O.C
Equipment Blank I.D.: — @ Time —	Duplicate I.D.: —

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-GJ1	Client: GHD
Sampler: GJ	Gauging Date: 12-16-24
Well I.D.: MW-213	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 38.92	Depth to Water (ft.): 4.58
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Hanna

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ___
Start Purge Time: 1124 Flow Rate: 200mL/min Pump Depth: 22'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	
1127	12.24	6.45	16.80	9	2.58	48.8	600	4.59	0.0
1130	12.43	6.86	16.89	7	2.54	31.1	1200	4.61	0.0
1133	12.14	7.18	17.00	6	2.53	22.2	1800	4.62	0.0
1136	12.47	7.23	16.95	6	2.50	17.3	2400	4.62	0.0
1139	12.43	7.17	16.99	6	2.49	13.1	3000	4.62	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000mL
Sampling Time: 1141 Sampling Date: 12-16-24
Sample I.D.: MW-213 Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC
Equipment Blank I.D.: @ Time Duplicate I.D.:

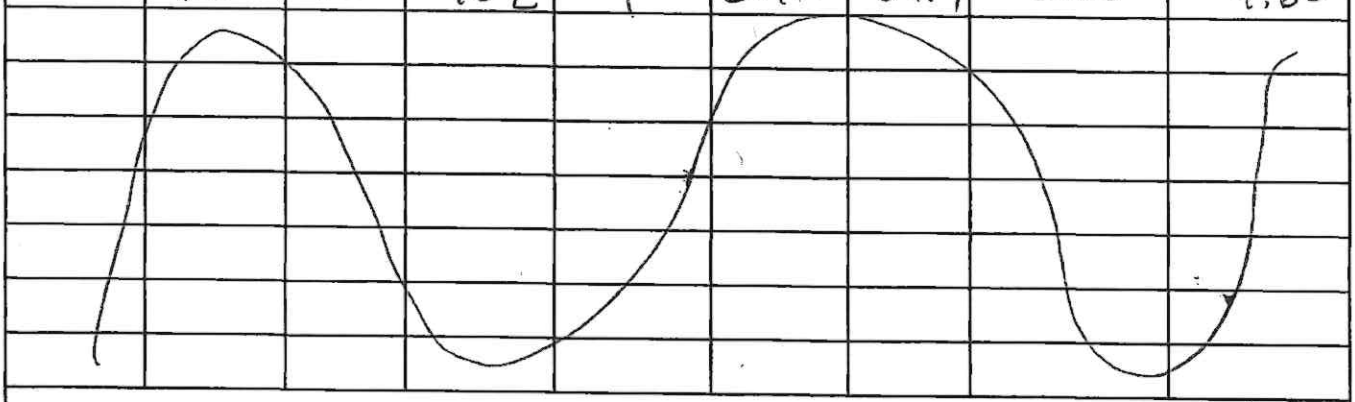
LOW FLOW WELL MONITORING DATA SHEET

Project #: 241216-LJ1	Client: GHD
Sampler: LJ	Gauging Date: 12-16-24
Well I.D.: MW-214	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 39.71	Depth to Water (ft.): 4.38
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Horiba

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1151 Flow Rate: 200mL/min Pump Depth: 22'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	PID
1154	11.21	9.31	713	3	2.96	78.2	600	4.52	0.0
1157	11.80	9.25	705	5	2.92	74.4	1200	4.55	0.0
1200	11.92	9.17	703	4	2.92	72.2	1800	4.57	0.0
1203	11.95	9.14	702	4	2.93	67.2	2400	4.58	0.0
1206	12.22	9.11	702	4	2.91	64.7	3000	4.60	0.0



Did well dewater? Yes (No) Amount actually evacuated: 3000ml

Sampling Time: 1208 Sampling Date: 12-16-24

Sample I.D.: MW-214 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

8 bottles

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)
☐ ACCUTEST (_____)
☐ CALSCIENCE (_____)
☑ TESTAMERICA (_____)
☐ Other (_____)
Lab Vendor # Dropdown

Please Check Appropriate Box:
☐ SGW FDG ☐ PIPELINE ☐ RETAIL
☐ CHEMICALS ☐ CONSULTANT ☐ LUBES
☐ TRANSPORTATION ☐ OTHER _____

Print Bill To Contact Name:
PO #
PlaNet Site or Project ID
GSAP Project ID
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 12-18-24
PAGE: 1 of 4

SAMPLING COMPANY: Blaine Tech Services, Inc
LOG CODE: BTSS
ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112
PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway
TELEPHONE: (425) 327-4585
FAX:
Bill To Contact E-MAIL: emily.blakeway@ghd.com

SITE ADDRESS: Street and City: 2555 13th Avenue
State: WA
GHD Project / Task Number: 12631170
EDF DELIVERABLE TO (Name, Company, Office Location): Emily Blakeway, GHD, WA
PHONE NO.: (425) 327-4585
E-MAIL: emily.blakeway@ghd.com
GHD Other ID
SAMPLER NAME(S) (Print): Lydia Johnson, Mac Hiller
LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____
TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☐ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS
UNIT COST: 8260C BTEX; NWTPH-Dx; 8270D SIM PAHs; 300.0 Sulfate
NON-UNIT COST: NWTPH-Gx; 6020A Total Lead; 353.2 Nitrate & Nitrite; 6020A Diss. Iron & Manganese (lab filtered)

FIELD NOTES:
TEMPERATURE ON RECEIPT C°
Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	8260C BTEX	NWTPH-Dx	8270D SIM PAHs	300.0 Sulfate	NWTPH-Gx	6020A Total Lead	353.2 Nitrate & Nitrite	6020A Diss. Iron & Manganese (lab filtered)
	MW-307	12/16/24	1004	GW	X		X			9	X	X		X	X		X	X
	TES-MW-1		1012		X					6	X	X			X			
	MW-308		1031		X		X			7	X			X	X		X	X
	MW-101		1056		X					6	X	X		J	X			
	MW-102		1102		X					6	X	X			X			
	TX-06A		1139		X					6	X	X			X			
	MW-213		1141		X					8	X	X	X		X			
	MW-214		1208		X					8	X	X	X					
	MW-203		1216		X		X			9		X		X	X		X	X
	MW-206A		1242		X					8	X	X			X			

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	12-18-24 1136 EST	12-18-24	1136
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:
- ☐ SGW FDG ☐ PIPELINE ☐ RETAIL
- ☐ CHEMICALS ☐ CONSULTANT ☐ LUBES
- ☐ TRANSPORTATION ☐ OTHER _____

Print Bill To Contact Name:

PlaNet Site or Project ID

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 12-18-24

PAGE: 2 of 4

PO #

GSAP Project ID

SAMPLING COMPANY: Blaine Tech Services, Inc

LOG CODE: BTSS

SITE ADDRESS: Street and City: 2555 13th Avenue

State: WA

GHD Project / Task Number: 12631170

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

EDF DELIVERABLE TO (Name, Company, Office Location): Emily Blakeway, GHD, WA

PHONE NO.: (425) 327-4585

E-MAIL: emily.blakeway@ghd.com

GHD Other ID

PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway

TELEPHONE: (425) 327-4585

FAX:

Bill To Contact E-MAIL: emily.blakeway@ghd.com

SAMPLER NAME(S) (Print): Lydia Johnson, Mac Miller

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☐ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

UNIT COST: 8260C BTEX; NWTPH-Dx; 8270D SIM PAHs; 300.0 Sulfate

NON-UNIT COST: NWTPH-Gx; 6020A Total Lead; 353.2 Nitrate & Nitrite; 6020A Diss. Iron & Manganese (lab filtered)

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	8260C BTEX	NWTPH-Dx	8270D SIM PAHs	300.0 Sulfate	NWTPH-Gx	6020A Total Lead	353.2 Nitrate & Nitrite	6020A Diss. Iron & Manganese (lab filtered)
	MW-304	12-16-24	1251	GW	X					6	X	X			X			
	MW-313	12-17-24	0838		X					6	X	X			X			
	MW-302		0846		X		X			9	X	X		X	X		X	X
	MW-315		0907		X					6	X	X			X			
	MW-312		0925		X		X			7	X			X	X		X	X
	MW-311		0927		X		X			7	X			X	X		X	X
	TX-03A		1005		X		X			9	X	X		X	X		X	X
	MW-304		1006		X		X			9	X	X		X	X		X	X
	MW-303		1036		X					6	X	X		X				
	MW-310		1043		X		X			9	X	X		X	X		X	X

Relinquished by: (Signature)	Received by: (Signature)	Date: 12-18-24	Time: 1136
Relinquished by: (Signature)	Received by: (Signature)	Date: 12-18-24	Time: 1136
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:
- ☐ SGW FDG ☐ PIPELINE ☐ RETAIL
- ☐ CHEMICALS ☐ CONSULTANT ☐ LUBES
- ☐ TRANSPORTATION ☐ OTHER _____

Print Bill To Contact Name:

PlaNet Site or Project ID

PO #

GSAP Project ID

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 12-18-24

PAGE: 3 of 4

SAMPLING COMPANY: Blaine Tech Services, Inc

LOG CODE: BTSS

SITE ADDRESS: Street and City: 2555 13th Avenue

State: WA

GHD Project / Task Number: 12631170

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

EDF DELIVERABLE TO (Name, Company, Office Location): Emily Blakeway, GHD, WA

PHONE NO.: (425) 327-4585

E-MAIL: emily.blakeway@ghd.com

GHD Other ID

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TELEPHONE: (425) 327-4585

FAX:

Bill To Contact E-MAIL: emily.blakeway@ghd.com

SAMPLER NAME(S) (Print): Lydia Johnson, Mac Hiller

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED
- ☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

UNIT COST: 8260C BTEX; NWTPH-Dx; 8270D SIM PAHs; 300.0 Sulfate

NON-UNIT COST: NWTPH-Gx; 6020A Total Lead; 353.2 Nitrate & Nitrite; 6020A Diss. Iron & Manganese (lab filtered)

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	8260C BTEX	NWTPH-Dx	8270D SIM PAHs	300.0 Sulfate	NWTPH-Gx	6020A Total Lead	353.2 Nitrate & Nitrite	6020A Diss. Iron & Manganese (lab filtered)
	MW-301	12-17-24	1104	GW	X					4	X				X			
	SH-64	"	1145	"	X					6	X	X			X			
	MW-309	"	1148	"	X					6	X	X			X			
	MW-112A	"	1229	"	X					6	X	X			X			
	TX-64	"	1231	"	X					6	X	X			X			
	MW-105	"	1347	"	X	X				7	X	X			X	X		
	MW-114	"	1354	"	X					6	X	X			X			
	MW-113	"	1413	"	X					6	X	X			X			
	MW-115	"	1423	"	X					6	X	X			X			
	MW-314	"	1524	"	X					6	X	X			X			

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		12-18-24	1136
		12-18-24	1136

Version: 14Dec15

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:
- ☐ SGW FDG ☐ PIPELINE ☐ RETAIL
- ☐ CHEMICALS ☐ CONSULTANT ☐ LUBES
- ☐ TRANSPORTATION ☐ OTHER _____

Print Bill To Contact Name:

PO #

PlaNet Site or Project ID

GSAP Project ID

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 12-18-24

PAGE: 4 of 4

SAMPLING COMPANY: Blaine Tech Services, Inc

LOG CODE: BTSS

SITE ADDRESS: Street and City: 2555 13th Avenue

State: WA

GHD Project / Task Number: 12631170

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FAX:

Bill To Contact E-MAIL: emily.blakeway@ghd.com

SAMPLER NAME(S) (Print): Lydia Johnson, Mac Hiller

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED
- ☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

UNIT COST: 8260C BTEX; NWTPH-Dx; 8270D SIM PAHs; 300.0 Sulfate

NON-UNIT COST: NWTPH-Gx; 6020A Total Lead; 353.2 Nitrate & Nitrite; 6020A Diss. Iron & Manganese (lab filtered)

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	8260C BTEX	NWTPH-Dx	8270D SIM PAHs	300.0 Sulfate	NWTPH-Gx	6020A Total Lead	353.2 Nitrate & Nitrite	6020A Diss. Iron & Manganese (lab filtered)
	MW-202	12-18-24	0942	GW	X		X			9	X	X		X	X		X	X
	MW-201		0907		X					6	X	X			X			
	MW-111		0941		X					6	X	X			X			
	MW-104		1005		X	X				7		X			X	X		
	MW-05		1034		X					6	X	X			X			
	TB-1		1100		X					2	X							

	Relinquished by: (Signature)	Received by: (Signature)	Date	Time
			12-18-24	1136
			12-18-24	1136

Version: 14Dec15

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT #

ADDRESS 2555 13th Ave SW

DATE: 12-16-24

CITY & STATE Seattle WA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
MW-201	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-202	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-203	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-204	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-206A	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-101	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-102	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-301	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-302	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-303	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-304	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
TOTAL # CAPS REPLACED = 0										0			= TOTAL # OF LOCKS REPLACED					

Condition of Soil Boring Patches or Abandoned Monitoring Wells	G	P	N/A	If POOR, Borings/Well IDs or Location Description	Y	N	
			N/A				

Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted	Photos of Condition		Repair Date and PM Initials
NA	X	G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
0	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A		Y	N	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Print or type Name of Field Personnel & Consultant Company

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT #

ADDRESS 2555 13th Ave SW

DATE: 12-16-24

CITY & STATE Seattle WA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size						Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
MW-307	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-308	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-309	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-310	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-311	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-312	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-313	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-314	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-315	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
TES-MW-1	Standpipe	Flush	G	P	Size (inch) 4	Y	N	G	R	G	R	NL	G	P		Y	N	
TX-03A	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
TOTAL # CAPS REPLACED = 0											0 = TOTAL # OF LOCKS REPLACED								

Condition of Soil Boring Patches or Abandoned Monitoring Wells	G	P	N/A	If POOR, Borings/Well IDs or Location Description	Y	N	
			N/A				

Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted	Photos of Condition		Repair Date and PM Initials
NA	X	G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
0	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A		Y	N	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Print or type Name of Field Personnel & Consultant Company

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT #

ADDRESS 2555 18th Ave SW

DATE: 12-16-24

CITY & STATE Seattle WA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size						Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
MW-05	Standpipe	Flush	G	P	Size (inch) 2		Y	N	G	R	G	R	NL	G	P		Y	N	
MW-111	Standpipe	Flush	G	P	Size (inch) 2		Y	N	G	R	G	R	NL	G	P		Y	N	
MW-112A	Standpipe	Flush	G	P	Size (inch) 2		Y	N	G	R	G	R	NL	G	P		Y	N	
SH-04	Standpipe	Flush	G	P	Size (inch) 2		Y	N	G	R	G	R	NL	G	P		Y	N	
MW-104	Standpipe	Flush	G	P	Size (inch) 2		Y	N	G	R	G	R	NL	G	P		Y	N	
MW-113	Standpipe	Flush	G	P	Size (inch) 2		Y	N	G	R	G	R	NL	G	P		Y	N	
MW-114	Standpipe	Flush	G	P	Size (inch) 2		Y	N	G	R	G	R	NL	G	P		Y	N	
MW-115	Standpipe	Flush	G	P	Size (inch) 2		Y	N	G	R	G	R	NL	G	P		Y	N	
MW-105	Standpipe	Flush	G	P	Size (inch) 2		Y	N	G	R	G	R	NL	G	P		Y	N	
TX-04	Standpipe	Flush	G	P	Size (inch) 2		Y	N	G	R	G	R	NL	G	P		Y	N	
TX-06A	Standpipe	Flush	G	P	Size (inch) 2		Y	N	G	R	G	R	NL	G	P		Y	N	
TOTAL # CAPS REPLACED =									0			0	= TOTAL # OF LOCKS REPLACED						

Condition of Soil Boring Patches or Abandoned Monitoring Wells	G	P	N/A	If POOR, Borings/Well IDs or Location Description	Y	N	
			N/A				

Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted	Photos of Condition		Repair Date and PM Initials
NA	X	G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
0	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A		Y	N	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Print or type Name of Field Personnel & Consultant Company

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT #

ADDRESS 2555 13th Ave SW

DATE: 12-16-24

CITY & STATE Seattle WA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size						Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
MW-208	Standpipe	Flush	G	P	Size (inch) 2		Y	N	G	R	G	R	NL	G	P		Y	N	
MW-210	Standpipe	Flush	G	P	Size (inch) 2		Y	N	G	R	G	R	NL	G	P		Y	N	
MW-211	Standpipe	Flush	G	P	Size (inch) 4		Y	N	G	R	G	R	NL	G	P		Y	N	
MW-212	Standpipe	Flush	G	P	Size (inch) 4		Y	N	G	R	G	R	NL	G	P		Y	N	
MW-213	Standpipe	Flush	G	P	Size (inch) 2		Y	N	G	R	G	R	NL	G	P		Y	N	
MW-214	Standpipe	Flush	G	P	Size (inch) 2		Y	N	G	R	G	R	NL	G	P		Y	N	
ASW-1	Standpipe	Flush	G	P	Size (inch) 4		Y	N	G	R	G	R	NL	G	P		Y	N	
PSV-1	Standpipe	Flush	G	P	Size (inch) 4		Y	N	G	R	G	R	NL	G	P		Y	N	
PSV-2	Standpipe	Flush	G	P	Size (inch) 4		Y	N	G	R	G	R	NL	G	P		Y	N	
SVE-1	Standpipe	Flush	G	P	Size (inch) 4		Y	N	G	R	G	R	NL	G	P		Y	N	
TW-01	Standpipe	Flush	G	P	Size (inch) 4		Y	N	G	R	G	R	NL	G	P		Y	N	

TOTAL # CAPS REPLACED = 0 | 0 = TOTAL # OF LOCKS REPLACED

Condition of Soil Boring Patches or Abandoned Monitoring Wells				If POOR, Borings/Well IDs or Location Description			
	G	P	N/A		Y	N	

Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted	Photos of Condition		Repair Date and PM Initials
NA	X	G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
0	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A		Y	N	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Print or type Name of Field Personnel & Consultant Company

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT #

ADDRESS 2555 18th Ave SW

DATE: 12-16-24

CITY & STATE Seattle WA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
DP-06	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-06	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-103	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-106	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-107	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-108	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-109	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-110	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P	Unable to locate	Y	N	
MW-205	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-209	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-305	Standpipe	Flush	G	P	Size (inch) 2	Y	N	G	R	G	R	NL	G	P		Y	N	

TOTAL # CAPS REPLACED = 0 | 0 = TOTAL # OF LOCKS REPLACED

Condition of Soil Boring Patches or Abandoned Monitoring Wells	G	P	N/A	If POOR, Borings/Well IDs or Location Description		Y	N	
	G							

Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted	Photos of Condition		Repair Date and PM Initials
NA	X	G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
0	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A		Y	N	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations

Version 2.4, March 2006

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Print or type Name of Field Personnel & Consultant Company

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT #

ADDRESS 2555 13th Ave SW

DATE: 12-16-24

CITY & STATE Seattle WA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size						Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
MW-306	Standpipe	Flush	G	P	Size (inch) 2		Y	N	G	R	G	R	NL	G	P		Y	N	
AMW-8	Standpipe	Flush	G	P	Size (inch) 2		Y	N	G	R	G	R	NL	G	P		Y	N	
AMW-X	Standpipe	Flush	G	P	Size (inch) 2		Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)		Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)		Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)		Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)		Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)		Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)		Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)		Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)		Y	N	G	R	G	R	NL	G	P		Y	N	
TOTAL # CAPS REPLACED = 0												0 = TOTAL # OF LOCKS REPLACED							

Condition of Soil Boring Patches or Abandoned Monitoring Wells	G	P	N/A	If POOR, Borings/Well IDs or Location Description		Y	N	
			N/A					

Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted	Photos of Condition		Repair Date and PM Initials
NA	X	G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A		Y	N	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

Number of Drums On-site	Does the Label Reveal the Source of the Contents			Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved	Photos of Drum Condition		Date Drums Removed from Site and PM Initials
0	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A		Y	N	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Print or type Name of Field Personnel & Consultant Company

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME SHELL HARBOR ISLAND, SEATTLE				PROJECT NUMBER 241216-[illegible]			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
HANNA	07460011101	12/16/24 @ 0546	PH 4 7 10	4.02 6.98 9.95	✓	18.9	MH
			COND. 3900 ORP 237.5 DO 100	3887 238.4 97	✓	18.9	MH
HANNA	07460011101	12/17/24 @ 0650	PH 4 7 10	3.99 7.01 9.97	✓	19.2	MH
			COND 3900 ORP 237.5 DO 100	3885 238.5 97	✓	19.2	MH

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME 215 SS 18th Ave SW Seattle WA				PROJECT NUMBER 241216-LJ			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
Hanna	07460003101	12-16-24 @0545	pH 4 7 10	4.02 7.06 9.98	✓	18.3	LJ
			DO 100 ORP 237.5 cond 3900	102.4 238.7 3908	✓	18.3	LJ
Hanna	07460003101	12-17-24 @0645	pH 4 7 10	4.04 7.09 9.97	✓	18.4	LJ
			DO 100 ORP 237.5 cond 3900	103.1 239.1 3911	✓	18.4	LJ
Hanna	07460003101	12-18-24 @0645	pH 4 7 10	4.03 7.07 9.96	✓	18.1	LJ
			DO 100 ORP 237.5 cond 3900	102.8 236.9 3897	✓	18.1	LJ

HASP Acknowledgment Sheet

Project Name: 2535 13th Ave SW Seattle WA Project Number: 24216-LJ1

This is to certify that I have received a pre-entry briefing regarding this HASP, and I understand its contents. My failure to follow and comply with the requirements contained in this plan may result in disciplinary action and/or termination.

Print Name	Signature	Date
Lydia Johnson		12-16-24
Mac Hiller		12/16/24
Sandybell Mrosek		12/16/24
Lydia Johnson		12-17-24
Sandybell Mrosek.		12/17/24.
Mac Hiller		12/17/24
Lydia Johnson		12-18-24
Sandybell Mrosek		12/18/24.

	GHD Shell SGW (US) Daily Tailgate Meeting & Job Clearance Form	Issue: 1/2/2011 Revision 11: October 2016 Do NOT pre-populate any field.

Job Location:	2555 18th Ave SW Seattle WA	Date:	12-16-24
GHD Site Supervisor:	Lydia Johnson	GHD PM:	Emily Blakeway

List activities to be performed today:	groundwater Sampling
Permitted Activities (specific permit to be competed):	☒ Not Applicable ☐ Confined Space Entry ☐ Excavation/Trenching ☐ Hot Work ☐ Hoisting/Rigging (any lifting with equipment, excluding drill rigs) ☐ Natural Gas System Maintenance

The above Permit-required activities require onsite GHD supervision unless approved by Regional Operations.

Muster Point:	Office	Spill Kit Location:	in truck cabinet
First Aid Kit Location:	in truck	Fire Extinguisher Location:	in truck cabinet
Emergency cut-off switches:	N/A	Designated cell phone use area(s):	truck passenger seat

Has the Site Manager/Owner been notified of the work activities and/or participated in a pre-work site walk?	☐ Yes ☐ No ☒ N/A
Is a fuel delivery scheduled for today? If yes, plan to Stop Work during fuel delivery.	☐ Yes ☐ No ☒ N/A
Has a site walk been performed to identify additional hazards?	☒ Yes ☐ No*
Have all personnel reviewed and understand the site specific HASP?	☒ Yes ☐ No*
Does each activity have a Job Safety Analysis (JSA)?	☒ Yes ☐ No*
Does each subcontractor have JSAs for their activities?	☒ Yes ☐ No* ☐ N/A
Have JSAs been reviewed by the work team and newly identified hazards been added to the JSA?	☒ Yes ☐ No*
Per our lone worker procedure, is each employee either accompanied by or in communications with another?	☒ Yes ☐ No* ☐ N/A
Has a Safe Lift Plan been completed and reviewed/approved by a GHD Subject Matter Expert?	☐ Yes ☐ No* ☒ N/A
Have all members of the work team confirmed understanding of the work, hazards, and controls/ mitigation?	☒ Yes ☐ No*
Has each person on the work team discussed all hazards and mitigation measures associated with any task which will require their feet to leave the ground?	☒ Yes ☐ No* ☐ N/A
Have work areas been properly cordoned-off to protect workers, site staff, and the public?	☒ Yes ☐ No* ☐ N/A
Have equipment checks been completed, documented, and reviewed?	☒ Yes ☒ No* ☐ N/A
Have there been any equipment modifications made by subcontractor(s)? Is yes, discuss modifications.	☐ Yes ☒ No ☐ N/A
Do all members of the work team have API Safety Keys (GHD excluded)?	☒ Yes ☐ No* ☐ N/A
Do all members of the work team have a Shell "Life Saving Rules" Training card?	☒ Yes ☐ No*
Do all site workers understand injury/ intervention reporting requirements including immediately notifying the GHD Site Supervisor of any injury, near miss, unsafe condition, hazard observation, or release?	☒ Yes ☐ No*
If permits are required, have they been reviewed and permit conditions understood by the Team?	☒ Yes ☐ No* ☐ N/A
If drilling, did driller physically point out all pinch points to entire team (GHD and all subs)?	☐ Yes ☐ No* ☒ N/A
If drilling, has the driller & crew agreed the audible and visible signals for "all clear" prior to engaging controls?	☐ Yes ☐ No* ☒ N/A

** If No, then work cannot be performed until corrective action is completed and documented.*

Title of GHD JSAs reviewed today:	groundwater monitoring, Shell tech, overwatch, TL @ Shell site	Title of Subcontractor's JSAs reviewed today:	

All personnel are wearing (regardless of activity):	☒ Hard Hat ☒ Safety Glasses ☒ Safety Vest ☒ Steel-Toed Boots ☒ Gloves (appropriate for task) See JSA for additional task specific PPE requirements.

Stop Work Authority & Obligation

* All employees will stop the job any time anyone is concerned or uncertain about safety.
* All employees will stop the job if anyone identifies a hazard or additional mitigation not recorded on the JSA.
* All employees will be alerted to any changes in personnel or conditions at the worksite.
* All employees will stop the job and reassess a task, hazards, and mitigations, and then amend the JSA as needed.

Other Items Discussed Today:

Circle the Life Saving Rule Icons that are applicable to the work/activities that will take place today:



	GHD Shell SGW (US) Daily Tailgate Meeting & Job Clearance Form	Issue: January 2, 2011 Revision 11: October 2016 Do NOT pre-populate any field.

SITE WORKERS (including GHD Contractors and Subcontractors): By signing here, you are stating the following:

* You understand that compliance with Shell's Life Saving Rules is mandatory and that failing to follow to them may result in termination.
* You have been involved in reviewing the JSAs and understand the hazards and control measures associated with each task you are about to perform.
* You understand the permit to work requirements applicable to the work you are about to perform (if it includes permitted activities).
* You understand the Shell Life Saving Rules and are aware that tasks or work that is not risk-assessed shall not be performed.
* You are aware of your authority and obligation to 'Stop Work'.

I arrived and departed fit for duty:

* You are physically and mentally fit for duty,
* You are not under the influence of any type of medication, drugs, or alcohol that could affect your ability to work safely.
* You are aware of your responsibility to immediately report any illness, injury (regardless of where or when it occurred), or fatigue issue you may have to the GHD Site Supervisor.
* You will sign-out uninjured unless you have otherwise informed the GHD Site Supervisor.

Print Name & Company	Signature	Initials & Sign In Time	Initials & Sign Out Time
Lyndon Johns BTJ		LJ In & Fit 0580	LJ Out & Fit 1400
Mac Miller BTS		MH In & Fit 0550	MH Out & Fit 1400
Sandybell Mrosek		SM In & Fit 0530	SM Out & Fit 1400
		In & Fit	Out & Fit
		In & Fit	Out & Fit

(Attach additional Site Worker sign-in/out sheets ifneeded)

PERSONAL SAFETY COMMITMENT (Attach additional Personal Safety Commitment sheets, if needed)

Print Name	"I will personally commit to do the following to positively improve site safety today":
Lyndon Johns	I will wear my PPE
MAC Hiller	I WILL WEAR PROPER PPE
Sandybell Mrosek	I will wear all my PPE properly

SITE VISITORS (attach additional Site Visitor sign-in/out sheets if needed)

Print Name	Company Name	Arrival Time	Departure Time	Signature

SITE REPRESENTATIVE Sign In/Out (operating sites only, and signature must be requested. If the operator refuses to sign, note this on the Form)

Sign In: *I have discussed this Job Clearance Form with the contractor*		Sign Out: *I have discussed this Job Clearance Form with the contractor*	
Site Representative Name	**Site Representative Signature**	**Site Representative Name**	**Site Representative Signature**

TWILIGHT TOOL BOX TALK (Complete the following once field activities for the day have been concluded):

Were there any Incidents, Near Misses, Potential Incidents, or Positive Interventions today?	☐ Yes ☐ No	If yes, provide details:
Were there any 'Stop Work' interventions?	☐ Yes ☐ No	If yes, provide details:
Were there any areas for improvement noted?	☐ Yes ☐ No	If yes, provide details:
Is the Site Manager/Owner happy with the way you left the site (including the location of waste drums and/or equipment)?	☐ Yes ☐ No	If no, provide details:
I certify that the above information is true and the job site is being left in a safe condition	☐ Yes ☐ No	GHD Site Supervisor Signature:

	GHD Shell SGW (US) Daily Tailgate Meeting & Job Clearance Form	Issue: 1/2/2011 Revision 11: October 2016 Do NOT pre-populate any field.

Job Location:	2355 13th Ave W Seattle WA	Date:	12-17-24
GHD Site Supervisor:	Kyle Johnson	GHD PM:	Emily Blakeway

List activities to be performed today:	groundwater samples
Permitted Activities (specific permit to be competed):	☐ Not Applicable ☐ Confined Space Entry ☐ Excavation/Trenching ☐ Hot Work ☐ Hoisting/Rigging (any lifting with equipment, excluding drill rigs) ☐ Natural Gas System Maintenance

The above Permit-required activities require onsite GHD supervision unless approved by Regional Operations.

Muster Point:	office	Spill Kit Location:	in truck cabinet
First Aid Kit Location:	in truck	Fire Extinguisher Location:	in truck cabinet
Emergency cut-off switches:	N/A	Designated cell phone use area(s):	truck passenger seat

Has the Site Manager/Owner been notified of the work activities and/or participated in a pre-work site walk?	☐ Yes ☐ No ☒ N/A
Is a fuel delivery scheduled for today? If yes, plan to Stop Work during fuel delivery.	☐ Yes ☐ No ☒ N/A
Has a site walk been performed to identify additional hazards?	☒ Yes ☐ No*
Have all personnel reviewed and understand the site specific HASP?	☒ Yes ☐ No*
Does each activity have a Job Safety Analysis (JSA)?	☒ Yes ☐ No*
Does each subcontractor have JSAs for their activities?	☒ Yes ☐ No* ☐ N/A
Have JSAs been reviewed by the work team and newly identified hazards been added to the JSA?	☒ Yes ☐ No*
Per our lone worker procedure, is each employee either accompanied by or in communications with another?	☒ Yes ☐ No* ☐ N/A
Has a Safe Lift Plan been completed and reviewed/approved by a GHD Subject Matter Expert?	☐ Yes ☐ No* ☒ N/A
Have all members of the work team confirmed understanding of the work, hazards, and controls/ mitigation?	☒ Yes ☐ No*
Has each person on the work team discussed all hazards and mitigation measures associated with any task which will require their feet to leave the ground?	☒ Yes ☐ No* ☐ N/A
Have work areas been properly cordoned-off to protect workers, site staff, and the public?	☒ Yes ☐ No* ☐ N/A
Have equipment checks been completed, documented, and reviewed?	☒ Yes ☐ No* ☐ N/A
Have there been any equipment modifications made by subcontractor(s)? Is yes, discuss modifications.	☐ Yes ☒ No ☐ N/A
Do all members of the work team have API Safety Keys (GHD excluded)?	☒ Yes ☐ No* ☐ N/A
Do all members of the work team have a Shell "Life Saving Rules" Training card?	☒ Yes ☐ No*
Do all site workers understand injury/ intervention reporting requirements including immediately notifying the GHD Site Supervisor of any injury, near miss, unsafe condition, hazard observation, or release?	☒ Yes ☐ No*
If permits are required, have they been reviewed and permit conditions understood by the Team?	☒ Yes ☐ No* ☐ N/A
If drilling, did driller physically point out all pinch points to entire team (GHD and all subs)?	☐ Yes ☐ No* ☒ N/A
If drilling, has the driller & crew agreed the audible and visible signals for "all clear" prior to engaging controls?	☐ Yes ☐ No* ☒ N/A

** If No, then work cannot be performed until corrective action is completed and documented.*

Title of GHD JSAs reviewed today:	groundwater monitoring, Excavation, Tie Check	Title of Subcontractor's JSAs reviewed today:	

All personnel are wearing (regardless of activity):	☒ Hard Hat ☒ Safety Glasses ☒ Safety Vest ☒ Steel-Toed Boots ☒ Gloves (appropriate for task) See JSA for additional task specific PPE requirements.

Stop Work Authority & Obligation

* All employees will stop the job any time anyone is concerned or uncertain about safety.
* All employees will stop the job if anyone identifies a hazard or additional mitigation not recorded on the JSA.
* All employees will be alerted to any changes in personnel or conditions at the worksite.
* All employees will stop the job and reassess a task, hazards, and mitigations, and then amend the JSA as needed.

Other Items Discussed Today:

Circle the Life Saving Rule Icons that are applicable to the work/activities that will take place today:



BYPASSING SAFETY CONTROLS | CONFINED SPACE | DRIVING | ENERGY ISOLATION | HOT WORK | LINE OF FIRE | SAFE MECHANICAL LIFTS | WORK AUTHORIZATION | WORKING AT HEIGHTS

	GHD Shell SGW (US) Daily Tailgate Meeting & Job Clearance Form	Issue: January 2, 2011 Revision 11: October 2016 Do NOT pre-populate any field.

SITE WORKERS (including GHD Contractors and Subcontractors): By signing here, you are stating the following:

* You understand that compliance with Shell's Life Saving Rules is mandatory and that failing to follow to them may result in termination.
* You have been involved in reviewing the JSAs and understand the hazards and control measures associated with each task you are about to perform.
* You understand the permit to work requirements applicable to the work you are about to perform (if it includes permitted activities).
* You understand the Shell Life Saving Rules and are aware that tasks or work that is not risk-assessed shall not be performed.
* You are aware of your authority and obligation to 'Stop Work'.

I arrived and departed fit for duty:

* You are physically and mentally fit for duty,
* You are not under the influence of any type of medication, drugs, or alcohol that could affect your ability to work safely.
* You are aware of your responsibility to immediately report any illness, injury (regardless of where or when it occurred), or fatigue issue you may have to the GHD Site Supervisor.
* You will sign-out uninjured unless you have otherwise informed the GHD Site Supervisor.

Print Name & Company	Signature	Initials & Sign In Time	Initials & Sign Out Time
Lydia Johnson BTS		LJ In & Fit 0630	LJ Out & Fit 1600
Sandybell Mrosek / BTS		SM In & Fit 0630	SM Out & Fit 1600
MAC HILLER / BTS		MH In & Fit 0630	MH Out & Fit 1600
		In & Fit	Out & Fit
		In & Fit	Out & Fit

(Attach additional Site Worker sign-in/out sheets if needed)

PERSONAL SAFETY COMMITMENT (Attach additional Personal Safety Commitment sheets, if needed)

Print Name	"I will personally commit to do the following to positively improve site safety today":
Lydia Johnson	I will wear my PPE
Sandybell Mrosek	I will wear all my PPE, properly.
MAC HILLER	I WILL WEAR PROPER PPE

SITE VISITORS (attach additional Site Visitor sign-in/out sheets if needed)

Print Name	Company Name	Arrival Time	Departure Time	Signature

SITE REPRESENTATIVE Sign In/Out (operating sites only, and signature must be requested. If the operator refuses to sign, note this on the Form)

Sign In: *I have discussed this Job Clearance Form with the contractor*		Sign Out: *I have discussed this Job Clearance Form with the contractor*	
Site Representative Name	**Site Representative Signature**	**Site Representative Name**	**Site Representative Signature**

TWILIGHT TOOL BOX TALK (Complete the following once field activities for the day have been concluded):

Were there any Incidents, Near Misses, Potential Incidents, or Positive Interventions today?	☐ Yes ☐ No	If yes, provide details:
Were there any 'Stop Work' interventions?	☐ Yes ☐ No	If yes, provide details:
Were there any areas for improvement noted?	☐ Yes ☐ No	If yes, provide details:
Is the Site Manager/Owner happy with the way you left the site (including the location of waste drums and/or equipment)?	☐ Yes ☐ No	If no, provide details:
I certify that the above information is true and the job site is being left in a safe condition	☐ Yes ☐ No	GHD Site Supervisor Signature:

	GHD Shell SGW (US) Daily Tailgate Meeting & Job Clearance Form	Issue. 1/2/2011 Revision 11: October 2016 Do NOT pre-populate any field.

Job Location:	Shell Harbor Island Terminal	Date:	12-18-24
GHD Site Supervisor:	Lydia Johnson	GHD PM:	Emily Blakeney

List activities to be performed today:	groundwater monitoring
Permitted Activities (specific permit to be competed):	☒ Not Applicable ☐ Confined Space Entry ☐ Excavation/Trenching ☐ Hot Work ☐ Hoisting/Rigging (any lifting with equipment, excluding drill rigs) ☐ Natural Gas System Maintenance

The above Permit-required activities require onsite GHD supervision unless approved by Regional Operations.

Muster Point:	Office	Spill Kit Location:	In truck cab/bed
First Aid Kit Location:	In truck	Fire Extinguisher Location:	truck cab/bed
Emergency cut-off switches:	N/A	Designated cell phone use area(s):	parking lot

Has the Site Manager/Owner been notified of the work activities and/or participated in a pre-work site walk?	☐ Yes ☐ No ☒ N/A
Is a fuel delivery scheduled for today? If yes, plan to Stop Work during fuel delivery.	☐ Yes ☐ No ☒ N/A
Has a site walk been performed to identify additional hazards?	☒ Yes ☐ No*
Have all personnel reviewed and understand the site specific HASP?	☒ Yes ☐ No*
Does each activity have a Job Safety Analysis (JSA)?	☒ Yes ☐ No*
Does each subcontractor have JSAs for their activities?	☒ Yes ☐ No* ☐ N/A
Have JSAs been reviewed by the work team and newly identified hazards been added to the JSA?	☒ Yes ☐ No*
Per our lone worker procedure, is each employee either accompanied by or in communications with another?	☒ Yes ☐ No* ☐ N/A
Has a Safe Lift Plan been completed and reviewed/approved by a GHD Subject Matter Expert?	☐ Yes ☐ No* ☒ N/A
Have all members of the work team confirmed understanding of the work, hazards, and controls/ mitigation?	☒ Yes ☐ No*
Has each person on the work team discussed all hazards and mitigation measures associated with any task which will require their feet to leave the ground?	☒ Yes ☐ No* ☐ N/A
Have work areas been properly cordoned-off to protect workers, site staff, and the public?	☒ Yes ☐ No* ☐ N/A
Have equipment checks been completed, documented, and reviewed?	☒ Yes ☐ No* ☐ N/A
Have there been any equipment modifications made by subcontractor(s)? Is yes, discuss modifications.	☐ Yes ☒ No ☐ N/A
Do all members of the work team have API Safety Keys (GHD excluded)?	☒ Yes ☐ No* ☐ N/A
Do all members of the work team have a Shell "Life Saving Rules" Training card?	☒ Yes ☐ No*
Do all site workers understand injury/ intervention reporting requirements including immediately notifying the GHD Site Supervisor of any injury, near miss, unsafe condition, hazard observation, or release?	☒ Yes ☐ No*
If permits are required, have they been reviewed and permit conditions understood by the Team?	☒ Yes ☐ No* ☐ N/A
If drilling, did driller physically point out all pinch points to entire team (GHD and all subs)?	☐ Yes ☐ No* ☒ N/A
If drilling, has the driller & crew agreed the audible and visible signals for "all clear" prior to engaging controls?	☐ Yes ☐ No* ☒ N/A

** If No, then work cannot be performed until corrective action is completed and documented.*

Title of GHD JSAs reviewed today:	groundwater monitoring, second technician/tech, TCP Shell JSA	Title of Subcontractor's JSAs reviewed today:	

All personnel are wearing (regardless of activity):	☒ Hard Hat ☒ Safety Glasses ☒ Safety Vest ☒ Steel-Toed Boots ☒ Gloves (appropriate for task) See JSA for additional task specific PPE requirements.

Stop Work Authority & Obligation

* All employees will stop the job any time anyone is concerned or uncertain about safety.
* All employees will stop the job if anyone identifies a hazard or additional mitigation not recorded on the JSA.
* All employees will be alerted to any changes in personnel or conditions at the worksite.
* All employees will stop the job and reassess a task, hazards, and mitigations, and then amend the JSA as needed.

Other Items Discussed Today:

Circle the Life Saving Rule Icons that are applicable to the work/activities that will take place today:



	GHD Shell SGW (US) Daily Tailgate Meeting & Job Clearance Form	Issue: January 2, 2011 Revision 11: October 2016 Do NOT pre-populate any field.

SITE WORKERS (including GHD Contractors and Subcontractors): By signing here, you are stating the following:

* You understand that compliance with Shell's Life Saving Rules is mandatory and that failing to follow to them may result in termination.
* You have been involved in reviewing the JSAs and understand the hazards and control measures associated with each task you are about to perform.
* You understand the permit to work requirements applicable to the work you are about to perform (if it includes permitted activities).
* You understand the Shell Life Saving Rules and are aware that tasks or work that is not risk-assessed shall not be performed.
* You are aware of your authority and obligation to 'Stop Work'.

I arrived and departed fit for duty:

* You are physically and mentally fit for duty,
* You are not under the influence of any type of medication, drugs, or alcohol that could affect your ability to work safely.
* You are aware of your responsibility to immediately report any illness, injury (regardless of where or when it occurred), or fatigue issue you may have to the GHD Site Supervisor.
* You will sign-out uninjured unless you have otherwise informed the GHD Site Supervisor.

Print Name & Company	Signature	Initials & Sign In Time	Initials & Sign Out Time
Lydia Johnson BTS		0630 In & Fit LJ	LJ Out & Fit 1100
Sandybell Marek / BTS		SM In & Fit 0630	SM Out & Fit 1100
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit

(Attach additional Site Worker sign-in/out sheets if needed)

PERSONAL SAFETY COMMITMENT (Attach additional Personal Safety Commitment sheets, if needed)

Print Name	"I will personally commit to do the following to positively improve site safety today":
Lydia Johnson	I will wear my PPE
Sandybell Marek.	I will wear all my PPE, properly.

SITE VISITORS (attach additional Site Visitor sign-in/out sheets if needed)

Print Name	Company Name	Arrival Time	Departure Time	Signature

SITE REPRESENTATIVE Sign In/Out (operating sites only, and signature must be requested. If the operator refuses to sign, note this on the Form)

Sign In: *I have discussed this Job Clearance Form with the contractor*		Sign Out: *I have discussed this Job Clearance Form with the contractor*	
Site Representative Name	**Site Representative Signature**	**Site Representative Name**	**Site Representative Signature**

TWILIGHT TOOL BOX TALK (Complete the following once field activities for the day have been concluded):

Were there any Incidents, Near Misses, Potential Incidents, or Positive Interventions today?	☐ Yes ☐ No	If yes, provide details:
Were there any 'Stop Work' interventions?	☐ Yes ☐ No	If yes, provide details:
Were there any areas for improvement noted?	☐ Yes ☐ No	If yes, provide details:
Is the Site Manager/Owner happy with the way you left the site (including the location of waste drums and/or equipment)?	☐ Yes ☐ No	If no, provide details:
I certify that the above information is true and the job site is being left in a safe condition	☐ Yes ☐ No	GHD Site Supervisor Signature:

BLAINE TECH SERVICES **JSA** **Groundwater Monitoring at Shell Site / Facility**	Date: 12/16/24 Location: SHELL HARBOR ISLAND	Onsite Work Crew: LJ MH SM

PPE -- Personal Protective Equipment	Required (Y/N)	**PPE -- Personal Protective Equipment**	Required (Y/N)
Steel Toed Safety Shoes	(Y) / N	Respirator	Y / (N)
Hi-Viz Safety Vest (Class 2)	(Y) / N	Hard Hat	(Y) / N
Safety Glasses	(Y) / N	Rain Gear	(Y) / N
Goggles	Y / (N)	Snake Gators	Y / (N)
Face Shield	Y / (N)	Tyvek Coveralls	Y / (N)
Nitrile Gloves	(Y) / N	Fire Resistant Clothing (FRC)	(Y) / N MH
Kevlar Gloves	(Y) / N	Knee Pads	Y / (N)
Rubber/Neoprene Gloves	Y / (N)	Hi-Viz Safety Jacket or Pants (Class 3)	Y / (N)
Hearing Protection	Y / (N)	Other (list)	Y / (N)

HAZARD ASSESSMENTS:

Whenever you arrive at a new job site, a **Hazard Assessment** is required to identify and evaluate potential hazards. **Hazard Assessments** must be performed prior to each move you make with your vehicle and after you arrive at each new work location or well. **Hazard Assessments** are also required whenever site conditions change. Technicians should maintain a high level of **Situational Awareness**, frequently assessing their safety.

STOP WORK AUTHORITY:

If, at any time, you feel that the work cannot be performed safely, you must **Stop Work and Report** to your Blaine Tech Project Manager.

Adherence to **9 Life Saving Rules** (LSRs) is **REQUIRED**:



My signature *below indicates that I have read this JSA; that I understand the hazards and safe work practices associated with the tasks; and that all requirements and conditions listed above have been met and verified prior to starting the work.*

Name/Signature Lydia Johnson / **Date/Time** 12-16-24 @ 0700

Name/Signature Mac Hiller / **Date/Time** 12/16/24 @ 0700

Name/Signature Sandybell Mrosek / **Date/Time** 12/16/24 @ 0700

Name/Signature Lydia Johnson / **Date/Time** 12-17-24 @ 0630

Name/Signature Sandybell Mrosek / **Date/Time** 12/17/24 @ 0630

Name/Signature Mac Hiller / **Date/Time** 12/17/24 @ 0630

Name/Signature Lydia Johnson / **Date/Time** 12-18-24 @ 0630

Sandybell Mrosek / 12/18/24 @ 0630

BLAINE TECH SERVICES	Date: 12/16/24	Onsite Work Crew: MH CJ SM
JSA **Second Tech Security Overwatch**	Location: SHELL HARBOR ISLAND	

PPE -- Personal Protective Equipment	Required (Y/N)	PPE -- Personal Protective Equipment	Required (Y/N)
Steel Toed Safety Shoes	(Y) / N	Respirator	Y / (N)
Hi-Viz Safety Vest (Class 2)	(Y) / N	Hard Hat	(Y) / N
Safety Glasses	(Y) / N	Rain Gear	(Y) / N
Goggles	Y / (N)	Snake Gators	Y / (N)
Face Shield	Y / (N)	Tyvek Coveralls	Y / (N)
Nitrile Gloves	(Y) / N	Fire Resistant Clothing (FRC)	(Y) / N
Kevlar Gloves	(Y) / N	Knee Pads	Y / (N)
Rubber/Neoprene Gloves	Y / (N)	Hi-Viz Safety Jacket or Pants (Class 3)	Y / (N)
Hearing Protection	Y / (N)	Other (list)	Y / (N)

HAZARD ASSESSMENTS:

Whenever you arrive at a new job site, a **Hazard Assessment** is required to identify and evaluate potential hazards. **Hazard Assessments** must be performed prior to each move you make with your vehicle and after you arrive at each new work location or well. **Hazard Assessments** are also required whenever site conditions change. Technicians should maintain a high level of **Situational Awareness**, frequently assessing their safety.

STOP WORK AUTHORITY:

If, at any time, you feel that the work cannot be performed safely, you must **Stop Work and Report** to your Blaine Tech Project Manager.

Adherence to **9 Life Saving Rules** (LSRs) is **REQUIRED**:



Development Team	Document Control System & Issue Authority	
Bart Gebbie, Director of Client Services; Francis Thie, Vice President; Richard Blaine, Vice President	Approved by: Francis Thie, Vice President, 12/27/2021	Issue Authority: Francis Thie, Vice President, 12/27/2021
Retail Engineering and DS SGW FDG Contractor Safety CASE review performed by: Francis Thie, Vice President, 11/11/2020		
Hazard Control Sheets (HCS) Utilized: 6-Excavations, concrete cutting, trenching and drilling; 7-Hot works; 10-Water under pressure; 11-Air under pressure; 13-Slips, Trips and Falls; 19-Moving vehicles to and from site; 20-Moving vehicles off site and forecourt work; 23-Severe weather; 26-Electrical buried supply lines; 29-Benzene; 31-Dust particles; 32-Vermin; 35-Physical effort; 36-Noise; 37-Heat stress; 38-Cold stress; 40-Security; 41-Hazardous Waste		
Work Type	Vapor Pin Install & Sampling at Shell Site / Facility	
JSA Type	Summary JSA	
Organization	Blaine Tech Services, Inc.	

My signature *below indicates that I have read this JSA; that I understand the hazards and safe work practices associated with the tasks; and that all requirements and conditions listed above have been met and verified prior to starting the work.*

Name/Signature Lydia Johnson / **Date/Time** 12-16-24 @ 0700

Name/Signature Mac Hiller / **Date/Time** 12/16/24 @ 0700

Name/Signature Sandybell Mrosek / **Date/Time** 12/16/24 @ 0700

Name/Signature Lydia Johnson / **Date/Time** 12-17-24 @ 0630

Name/Signature Sandybell Mrosek / **Date/Time** 12/17/24 @ 0630

Name/Signature Mac Hiller / **Date/Time** 12/17/24 @ 0630

Name/Signature Lydia Johnson / **Date/Time** 12-18-24 @ 0630

Sandybell Mrosek / 12/18/24 @ 0630.

BLAINE TECH SERVICES **JSA** **Traffic Control at Shell Site / Facility**	Date: 12/16/24 Location: SHELL HARBOR ISLAND	Onsite Work Crew: MH, LJ, SM

PPE -- Personal Protective Equipment	Required (Y/N)	PPE -- Personal Protective Equipment	Required (Y/N)
Steel Toed Safety Shoes	(Y) / N	Respirator	Y / (N)
Hi-Viz Safety Vest (Class 2)	(Y) / N	Hard Hat	(Y) / N
Safety Glasses	(Y) / N	Rain Gear	(Y) / N
Goggles	Y / (N)	Snake Gators	Y / (N)
Face Shield	Y / (N)	Tyvek Coveralls	Y / (N)
Nitrile Gloves	(Y) / N	Fire Resistant Clothing (FRC)	(Y) / N
Kevlar Gloves	(Y) / N	Knee Pads	Y / (N)
Rubber/Neoprene Gloves	Y / (N)	Hi-Viz Safety Jacket or Pants (Class 3)	Y / (N)
Hearing Protection	Y / (N)	Other (list)	Y / (N)

HAZARD ASSESSMENTS:

Whenever you arrive at a new job site, a **Hazard Assessment** is required to identify and evaluate potential hazards. **Hazard Assessments** must be performed prior to each move you make with your vehicle and after you arrive at each new work location or well. **Hazard Assessments** are also required whenever site conditions change. Technicians should maintain a high level of **Situational Awareness**, frequently assessing their safety.

STOP WORK AUTHORITY:

If, at any time, you feel that the work cannot be performed safely, you must **Stop Work and Report** to your Blaine Tech Project Manager.

Adherence to **9 Life Saving Rules** (LSRs) is **REQUIRED**:



Development Team	Document Control System & Issue Authority	
Bart Gebbie, Director of Client Services; Francis Thie, Vice President; Richard Blaine, Vice President	Approved by: Francis Thie, Vice President, 12/27/2021	Issue Authority: Francis Thie, Vice President, 12/27/2021
Retail Engineering and DS SGW FDG Contractor Safety CASE review performed by: Francis Thie, Vice President, 11/11/2020		
Hazard Control Sheets (HCS) Utilized: 7-Hot works; 10-Water under pressure; 11-Air under pressure; 13-Slips, Trips and Falls; 19-Moving vehicles to and from site; 20-Moving vehicles off site and forecourt work; 23-Severe weather; 27-Insufficient oxygen atmosphere/Confined space; 29-Benzene; 32-Vermin; 35-Physical effort; 36-Noise; 37-Heat stress; 38-Cold stress; 40-Security; 41-Hazardous Waste		

Work Type	Traffic Control at Shell Site / Facility
JSA Type	Summary JSA
Organization	Blaine Tech Services, Inc.

My signature *below indicates that I have read this JSA; that I understand the hazards and safe work practices associated with the tasks; and that all requirements and conditions listed above have been met and verified prior to starting the work.*

Name/Signature Lydia Johnson / **Date/Time** 12-16-24 0700

Name/Signature MAC Hiller / **Date/Time** 12/16/24 @ 0700

Name/Signature Sandybell Mrosek / **Date/Time** 12/16/24 @ 0700

Name/Signature Lydia Johnson / **Date/Time** 12-17-24 0630

Name/Signature Sandybell Mrosek / **Date/Time** 12/17/24 @ 0630

Name/Signature MAC Hiller / **Date/Time** 12/17/24 @ 0630

Name/Signature Lydia Johnson / **Date/Time** 12-18-24 @ 0630

Sandybell Mrosek / 12/18/24 @ 0630

Appendix B

Laboratory Analytical Results

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Emily Blakeway
GHD Services Inc.
9725 3rd Avenue NE, Suite 204
Seattle, Washington 98115

Generated 3/27/2024 1:07:57 PM

JOB DESCRIPTION

Shell Triton West Consent Decree

JOB NUMBER

580-137665-1

Eurofins Seattle
5755 8th Street East
Tacoma WA 98424

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization



Generated
3/27/2024 1:07:57 PM

Authorized for release by
Katie Grant, Project Manager I
Katie.Grant@et.eurofinsus.com
(253)922-2310

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Job Narrative
580-137665-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/12/2024 12:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.9°C.

GC/MS VOA
Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: TX-03A (580-137665-5). Elevated reporting limits (RLs) are provided.

Method NWTPH_Gx_MS: The following sample was diluted due to the abundance of non-target analytes: TX-03A (580-137665-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Definitions/Glossary

Client: GHD Services Inc.
Job ID: 580-137665-1
Project/Site: Shell Triton West Consent Decree

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: GHD Services Inc.
Job ID: 580-137665-1
Project/Site: Shell Triton West Consent Decree

Client Sample ID: TB-1
Lab Sample ID: 580-137665-1
Date Collected: 03/11/24 09:00
Matrix: Water
Date Received: 03/12/24 12:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			03/16/24 13:36	1
Toluene	**0.765**	**J**	1.00	0.390	ug/L			03/16/24 13:36	1
Ethylbenzene	ND		1.00	0.500	ug/L			03/16/24 13:36	1
Xylenes, Total	**1.03**	**J**	2.00	0.530	ug/L			03/16/24 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/16/24 13:36*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*03/16/24 13:36*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*03/16/24 13:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*03/16/24 13:36*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		100	14.0	ug/L			03/16/24 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*77 - 123*		*03/16/24 13:36*	*1*

Client: GHD Services Inc.
Job ID: 580-137665-1
Project/Site: Shell Triton West Consent Decree

Client Sample ID: MW-302
Lab Sample ID: 580-137665-2
Date Collected: 03/11/24 12:02
Matrix: Water
Date Received: 03/12/24 12:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**6.68**		1.00	0.240	ug/L			03/16/24 16:30	1
Toluene	**0.531**	**J**	1.00	0.390	ug/L			03/16/24 16:30	1
Ethylbenzene	ND		1.00	0.500	ug/L			03/16/24 16:30	1
Xylenes, Total	**1.33**	**J**	2.00	0.530	ug/L			03/16/24 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*03/16/24 16:30*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*03/16/24 16:30*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*03/16/24 16:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*03/16/24 16:30*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**297**		100	14.0	ug/L			03/16/24 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*77 - 123*		*03/16/24 16:30*	*1*

Client: GHD Services Inc.
Job ID: 580-137665-1
Project/Site: Shell Triton West Consent Decree

Client Sample ID: MW-307
Lab Sample ID: 580-137665-3
Date Collected: 03/11/24 10:38
Matrix: Water
Date Received: 03/12/24 12:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	18.3		1.00	0.240	ug/L			03/16/24 19:02	1
Toluene	7.43		1.00	0.390	ug/L			03/16/24 19:02	1
Ethylbenzene	26.7		1.00	0.500	ug/L			03/16/24 19:02	1
Xylenes, Total	27.6		2.00	0.530	ug/L			03/16/24 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/16/24 19:02*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*03/16/24 19:02*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*03/16/24 19:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*03/16/24 19:02*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1090		100	14.0	ug/L			03/16/24 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*77 - 123*		*03/16/24 19:02*	*1*

Client: GHD Services Inc.
Job ID: 580-137665-1
Project/Site: Shell Triton West Consent Decree

Client Sample ID: MW-308
Lab Sample ID: 580-137665-4
Date Collected: 03/11/24 11:04
Matrix: Water
Date Received: 03/12/24 12:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			03/16/24 16:51	1
Toluene	ND		1.00	0.390	ug/L			03/16/24 16:51	1
Ethylbenzene	ND		1.00	0.500	ug/L			03/16/24 16:51	1
Xylenes, Total	ND		2.00	0.530	ug/L			03/16/24 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/16/24 16:51*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*03/16/24 16:51*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*03/16/24 16:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*03/16/24 16:51*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		100	14.0	ug/L			03/16/24 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*77 - 123*		*03/16/24 16:51*	*1*

Client: GHD Services Inc.
Job ID: 580-137665-1
Project/Site: Shell Triton West Consent Decree

Client Sample ID: TX-03A
Lab Sample ID: 580-137665-5
Date Collected: 03/11/24 11:40
Matrix: Water
Date Received: 03/12/24 12:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**169**		10.0	2.40	ug/L			03/16/24 21:12	10
Toluene	**7.63**	**J**	10.0	3.90	ug/L			03/16/24 21:12	10
Ethylbenzene	ND		10.0	5.00	ug/L			03/16/24 21:12	10
Xylenes, Total	**8.02**	**J**	20.0	5.30	ug/L			03/16/24 21:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/16/24 21:12*	*10*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*03/16/24 21:12*	*10*
Dibromofluoromethane (Surr)	*92*		*80 - 120*		*03/16/24 21:12*	*10*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*		*03/16/24 21:12*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**2840**		1000	140	ug/L			03/16/24 21:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*77 - 123*		*03/16/24 21:12*	*10*

Client: GHD Services Inc.
Job ID: 580-137665-1
Project/Site: Shell Triton West Consent Decree

Client Sample ID: MW-301
Lab Sample ID: 580-137665-6
Date Collected: 03/12/24 10:02
Matrix: Water
Date Received: 03/12/24 12:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	19.3		1.00	0.240	ug/L			03/16/24 19:23	1
Toluene	3.46		1.00	0.390	ug/L			03/16/24 19:23	1
Ethylbenzene	3.39		1.00	0.500	ug/L			03/16/24 19:23	1
Xylenes, Total	3.51		2.00	0.530	ug/L			03/16/24 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*03/16/24 19:23*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*03/16/24 19:23*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*03/16/24 19:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*03/16/24 19:23*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1020		100	14.0	ug/L			03/16/24 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*77 - 123*		*03/16/24 19:23*	*1*

Client: GHD Services Inc.
Job ID: 580-137665-1
Project/Site: Shell Triton West Consent Decree

Client Sample ID: MW-303
Lab Sample ID: 580-137665-7
Date Collected: 03/12/24 09:37
Matrix: Water
Date Received: 03/12/24 12:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	13.7		1.00	0.240	ug/L			03/16/24 19:45	1
Toluene	1.25		1.00	0.390	ug/L			03/16/24 19:45	1
Ethylbenzene	29.8		1.00	0.500	ug/L			03/16/24 19:45	1
Xylenes, Total	4.90		2.00	0.530	ug/L			03/16/24 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/16/24 19:45*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/16/24 19:45*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 120*		*03/16/24 19:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*03/16/24 19:45*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1330		100	14.0	ug/L			03/16/24 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*77 - 123*		*03/16/24 19:45*	*1*

Client: GHD Services Inc.
Job ID: 580-137665-1
Project/Site: Shell Triton West Consent Decree

Client Sample ID: MW-304
Lab Sample ID: 580-137665-8
Date Collected: 03/12/24 10:52
Matrix: Water
Date Received: 03/12/24 12:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	12.7		1.00	0.240	ug/L			03/16/24 20:07	1
Toluene	0.887	J	1.00	0.390	ug/L			03/16/24 20:07	1
Ethylbenzene	ND		1.00	0.500	ug/L			03/16/24 20:07	1
Xylenes, Total	2.55		2.00	0.530	ug/L			03/16/24 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/16/24 20:07*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*03/16/24 20:07*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*03/16/24 20:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*03/16/24 20:07*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	574		100	14.0	ug/L			03/16/24 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*77 - 123*		*03/16/24 20:07*	*1*

Client: GHD Services Inc.
Job ID: 580-137665-1
Project/Site: Shell Triton West Consent Decree

Client Sample ID: MW-310
Lab Sample ID: 580-137665-9
Date Collected: 03/12/24 10:27
Matrix: Water
Date Received: 03/12/24 12:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	12.4		1.00	0.240	ug/L			03/16/24 20:28	1
Toluene	1.83		1.00	0.390	ug/L			03/16/24 20:28	1
Ethylbenzene	6.04		1.00	0.500	ug/L			03/16/24 20:28	1
Xylenes, Total	6.13		2.00	0.530	ug/L			03/16/24 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*03/16/24 20:28*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*03/16/24 20:28*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*03/16/24 20:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*03/16/24 20:28*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	896		100	14.0	ug/L			03/16/24 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*77 - 123*		*03/16/24 20:28*	*1*

Client: GHD Services Inc.
Job ID: 580-137665-1
Project/Site: Shell Triton West Consent Decree

Client Sample ID: MW-311
Lab Sample ID: 580-137665-10
Date Collected: 03/12/24 09:09
Matrix: Water
Date Received: 03/12/24 12:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.44		1.00	0.240	ug/L			03/16/24 17:35	1
Toluene	2.07		1.00	0.390	ug/L			03/16/24 17:35	1
Ethylbenzene	0.510	J	1.00	0.500	ug/L			03/16/24 17:35	1
Xylenes, Total	1.32	J	2.00	0.530	ug/L			03/16/24 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*03/16/24 17:35*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*03/16/24 17:35*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*03/16/24 17:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*03/16/24 17:35*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2820		100	14.0	ug/L			03/16/24 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*77 - 123*		*03/16/24 17:35*	*1*

Client: GHD Services Inc.
Job ID: 580-137665-1
Project/Site: Shell Triton West Consent Decree

Client Sample ID: MW-312
Lab Sample ID: 580-137665-11
Date Collected: 03/12/24 08:42
Matrix: Water
Date Received: 03/12/24 12:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	10.8		1.00	0.240	ug/L			03/16/24 20:50	1
Toluene	2.69		1.00	0.390	ug/L			03/16/24 20:50	1
Ethylbenzene	1.94		1.00	0.500	ug/L			03/16/24 20:50	1
Xylenes, Total	2.44		2.00	0.530	ug/L			03/16/24 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*03/16/24 20:50*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*03/16/24 20:50*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*03/16/24 20:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*03/16/24 20:50*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	3180		100	14.0	ug/L			03/16/24 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*77 - 123*		*03/16/24 20:50*	*1*

Client: GHD Services Inc.
Project/Site: Shell Triton West Consent Decree

Job ID: 580-137665-1

Client Sample ID: MW-313
Date Collected: 03/12/24 08:16
Date Received: 03/12/24 12:20

Lab Sample ID: 580-137665-12
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			03/16/24 17:56	1
Toluene	ND		1.00	0.390	ug/L			03/16/24 17:56	1
Ethylbenzene	ND		1.00	0.500	ug/L			03/16/24 17:56	1
Xylenes, Total	ND		2.00	0.530	ug/L			03/16/24 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*03/16/24 17:56*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*03/16/24 17:56*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*03/16/24 17:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*03/16/24 17:56*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**74.0**	**J**	100	14.0	ug/L			03/16/24 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*77 - 123*		*03/16/24 17:56*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**184**		114	67.6	ug/L		03/15/24 08:27	03/15/24 17:39	1
Motor Oil (>C24-C36)	**260**	**J**	364	99.8	ug/L		03/15/24 08:27	03/15/24 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*119*		*50 - 150*	*03/15/24 08:27*	*03/15/24 17:39*	*1*

Client: GHD Services Inc.
Job ID: 580-137665-1
Project/Site: Shell Triton West Consent Decree

Client Sample ID: MW-315
Lab Sample ID: 580-137665-13
Date Collected: 03/12/24 07:48
Matrix: Water
Date Received: 03/12/24 12:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5.34		1.00	0.240	ug/L			03/16/24 18:18	1
Toluene	3.15		1.00	0.390	ug/L			03/16/24 18:18	1
Ethylbenzene	0.641	J	1.00	0.500	ug/L			03/16/24 18:18	1
Xylenes, Total	2.51		2.00	0.530	ug/L			03/16/24 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*03/16/24 18:18*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*03/16/24 18:18*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*03/16/24 18:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*03/16/24 18:18*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	3820		100	14.0	ug/L			03/16/24 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*77 - 123*		*03/16/24 18:18*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	4730		115	68.1	ug/L		03/15/24 08:27	03/15/24 17:59	1
Motor Oil (>C24-C36)	531		367	101	ug/L		03/15/24 08:27	03/15/24 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*113*		*50 - 150*	*03/15/24 08:27*	*03/15/24 17:59*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-453988/11
Matrix: Water
Analysis Batch: 453988

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			03/16/24 13:14	1
Toluene	ND		1.00	0.390	ug/L			03/16/24 13:14	1
Ethylbenzene	ND		1.00	0.500	ug/L			03/16/24 13:14	1
Xylenes, Total	ND		2.00	0.530	ug/L			03/16/24 13:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/16/24 13:14*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*03/16/24 13:14*	*1*
Dibromofluoromethane (Surr)	*88*		*80 - 120*		*03/16/24 13:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*03/16/24 13:14*	*1*

Lab Sample ID: LCS 580-453988/6
Matrix: Water
Analysis Batch: 453988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			10.0	10.33		ug/L		103	80 - 122		
Toluene			10.0	10.02		ug/L		100	80 - 120		
Ethylbenzene			10.0	10.11		ug/L		101	80 - 120		
Xylenes, Total			20.0	19.95		ug/L		100	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*93*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 580-453988/7
Matrix: Water
Analysis Batch: 453988

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			10.0	10.22		ug/L		102	80 - 122	1	14
Toluene			10.0	9.962		ug/L		100	80 - 120	1	13
Ethylbenzene			10.0	9.940		ug/L		99	80 - 120	2	14
Xylenes, Total			20.0	19.51		ug/L		98	80 - 120	2	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*92*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 580-453984/11
Matrix: Water
Analysis Batch: 453984

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		100	14.0	ug/L			03/16/24 13:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*77 - 123*		*03/16/24 13:14*	*1*

Lab Sample ID: LCS 580-453984/8
Matrix: Water
Analysis Batch: 453984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Gasoline			1000	947.1		ug/L		95	55 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*77 - 123*

Lab Sample ID: LCSD 580-453984/9
Matrix: Water
Analysis Batch: 453984

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline			1000	915.0		ug/L		91	55 - 148	3	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*77 - 123*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Lab Sample ID: MB 580-453906/1-A
Matrix: Water
Analysis Batch: 453939

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 453906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		110	65.0	ug/L		03/15/24 08:27	03/15/24 15:15	1
Motor Oil (>C24-C36)	ND		350	96.0	ug/L		03/15/24 08:27	03/15/24 15:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*104*		*50 - 150*	*03/15/24 08:27*	*03/15/24 15:15*	*1*

Lab Sample ID: LCS 580-453906/2-A
Matrix: Water
Analysis Batch: 453939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 453906

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (C10-C24)			4000	3361		ug/L		84	50 - 120		
Motor Oil (>C24-C36)			4000	3591		ug/L		90	64 - 120		

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx (Continued)

Lab Sample ID: LCS 580-453906/2-A
Matrix: Water
Analysis Batch: 453939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 453906

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	*100*		*50 - 150*

Lab Sample ID: LCSD 580-453906/3-A
Matrix: Water
Analysis Batch: 453939

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 453906

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (C10-C24)			4000	3282		ug/L		82	50 - 120	2	26
Motor Oil (>C24-C36)			4000	3632		ug/L		91	64 - 120	1	24

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	*101*		*50 - 150*

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Shell Triton West Consent Decree

Job ID: 580-137665-1

Client Sample ID: TB-1
Date Collected: 03/11/24 09:00
Date Received: 03/12/24 12:20

Lab Sample ID: 580-137665-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453988	JBT	EET SEA	03/16/24 13:36
Total/NA	Analysis	NWTPH-Gx		1	453984	JBT	EET SEA	03/16/24 13:36

Client Sample ID: MW-302
Date Collected: 03/11/24 12:02
Date Received: 03/12/24 12:20

Lab Sample ID: 580-137665-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453988	JBT	EET SEA	03/16/24 16:30
Total/NA	Analysis	NWTPH-Gx		1	453984	JBT	EET SEA	03/16/24 16:30

Client Sample ID: MW-307
Date Collected: 03/11/24 10:38
Date Received: 03/12/24 12:20

Lab Sample ID: 580-137665-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453988	JBT	EET SEA	03/16/24 19:02
Total/NA	Analysis	NWTPH-Gx		1	453984	JBT	EET SEA	03/16/24 19:02

Client Sample ID: MW-308
Date Collected: 03/11/24 11:04
Date Received: 03/12/24 12:20

Lab Sample ID: 580-137665-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453988	JBT	EET SEA	03/16/24 16:51
Total/NA	Analysis	NWTPH-Gx		1	453984	JBT	EET SEA	03/16/24 16:51

Client Sample ID: TX-03A
Date Collected: 03/11/24 11:40
Date Received: 03/12/24 12:20

Lab Sample ID: 580-137665-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	453988	JBT	EET SEA	03/16/24 21:12
Total/NA	Analysis	NWTPH-Gx		10	453984	JBT	EET SEA	03/16/24 21:12

Client Sample ID: MW-301
Date Collected: 03/12/24 10:02
Date Received: 03/12/24 12:20

Lab Sample ID: 580-137665-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453988	JBT	EET SEA	03/16/24 19:23
Total/NA	Analysis	NWTPH-Gx		1	453984	JBT	EET SEA	03/16/24 19:23

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Shell Triton West Consent Decree

Job ID: 580-137665-1

Client Sample ID: MW-303
Date Collected: 03/12/24 09:37
Date Received: 03/12/24 12:20

Lab Sample ID: 580-137665-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453988	JBT	EET SEA	03/16/24 19:45
Total/NA	Analysis	NWTPH-Gx		1	453984	JBT	EET SEA	03/16/24 19:45

Client Sample ID: MW-304
Date Collected: 03/12/24 10:52
Date Received: 03/12/24 12:20

Lab Sample ID: 580-137665-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453988	JBT	EET SEA	03/16/24 20:07
Total/NA	Analysis	NWTPH-Gx		1	453984	JBT	EET SEA	03/16/24 20:07

Client Sample ID: MW-310
Date Collected: 03/12/24 10:27
Date Received: 03/12/24 12:20

Lab Sample ID: 580-137665-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453988	JBT	EET SEA	03/16/24 20:28
Total/NA	Analysis	NWTPH-Gx		1	453984	JBT	EET SEA	03/16/24 20:28

Client Sample ID: MW-311
Date Collected: 03/12/24 09:09
Date Received: 03/12/24 12:20

Lab Sample ID: 580-137665-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453988	JBT	EET SEA	03/16/24 17:35
Total/NA	Analysis	NWTPH-Gx		1	453984	JBT	EET SEA	03/16/24 17:35

Client Sample ID: MW-312
Date Collected: 03/12/24 08:42
Date Received: 03/12/24 12:20

Lab Sample ID: 580-137665-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453988	JBT	EET SEA	03/16/24 20:50
Total/NA	Analysis	NWTPH-Gx		1	453984	JBT	EET SEA	03/16/24 20:50

Client Sample ID: MW-313
Date Collected: 03/12/24 08:16
Date Received: 03/12/24 12:20

Lab Sample ID: 580-137665-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453988	JBT	EET SEA	03/16/24 17:56
Total/NA	Analysis	NWTPH-Gx		1	453984	JBT	EET SEA	03/16/24 17:56
Total/NA	Prep	3510C			453906	TOA	EET SEA	03/15/24 08:27
Total/NA	Analysis	NWTPH-Dx		1	453939	CB	EET SEA	03/15/24 17:39

Lab Chronicle

Client: GHD Services Inc.
Job ID: 580-137665-1
Project/Site: Shell Triton West Consent Decree

Client Sample ID: MW-315
Lab Sample ID: 580-137665-13
Date Collected: 03/12/24 07:48
Matrix: Water
Date Received: 03/12/24 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453988	JBT	EET SEA	03/16/24 18:18
Total/NA	Analysis	NWTPH-Gx		1	453984	JBT	EET SEA	03/16/24 18:18
Total/NA	Prep	3510C			453906	TOA	EET SEA	03/15/24 08:27
Total/NA	Analysis	NWTPH-Dx		1	453939	CB	EET SEA	03/15/24 17:59

Laboratory References:

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: GHD Services Inc.
Job ID: 580-137665-1
Project/Site: Shell Triton West Consent Decree

Laboratory: Eurofins Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4167	07-07-24
Washington	State	C788	07-13-24

Sample Summary

Client: GHD Services Inc.
Project/Site: Shell Triton West Consent Decree

Job ID: 580-137665-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-137665-1	TB-1	Water	03/11/24 09:00	03/12/24 12:20
580-137665-2	MW-302	Water	03/11/24 12:02	03/12/24 12:20
580-137665-3	MW-307	Water	03/11/24 10:38	03/12/24 12:20
580-137665-4	MW-308	Water	03/11/24 11:04	03/12/24 12:20
580-137665-5	TX-03A	Water	03/11/24 11:40	03/12/24 12:20
580-137665-6	MW-301	Water	03/12/24 10:02	03/12/24 12:20
580-137665-7	MW-303	Water	03/12/24 09:37	03/12/24 12:20
580-137665-8	MW-304	Water	03/12/24 10:52	03/12/24 12:20
580-137665-9	MW-310	Water	03/12/24 10:27	03/12/24 12:20
580-137665-10	MW-311	Water	03/12/24 09:09	03/12/24 12:20
580-137665-11	MW-312	Water	03/12/24 08:42	03/12/24 12:20
580-137665-12	MW-313	Water	03/12/24 08:16	03/12/24 12:20
580-137665-13	MW-315	Water	03/12/24 07:48	03/12/24 12:20

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:
☐ SGW FDG ☐ PIPELINE ☐ RETAIL
☐ CHEMICALS ☐ CONSULTANT ☐ LUBES
☐ TRANSPORTATION ☐ OTHER _____

Print Bill To Contact Name:

PlaNet Site or Project ID

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 03/11/24

PAGE: 1 of 2

PO #

GSAP Project ID

SAMPLING COMPANY: Blaine Tech Services, Inc
LOG CODE: BTSS

SITE ADDRESS: Street and City: 2555 13th Avenue
State: WA
GHD Project / Task Number: 12631170

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

EDF DELIVERABLE TO (Name, Company, Office Location): Emily Blakeway, GHD, WA
PHONE NO.: (425) 327-4585
E-MAIL: emily.blakeway@ghd.com
GHD Other ID

PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway

TELEPHONE: (425) 327-4585
FAX:
Bill To Contact E-MAIL: emily.blakeway@ghd.com

SAMPLER NAME(S) (Print): Jonah Davis

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☐ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

UNIT COST

NON-UNIT COST

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	8260C BTEX	NWTPH-Dx	NWTPH-Gx
	TB-1	03/11/24	0900	WT	X					2	X		X
	MW-302		1202		X					4	X		X
	MW-307		1038		X					4	X		X
	MW-308		1164		X					4	X		X
	TX-03A		1140		X					4	X		X
	MW-301	03/12/24	1002		X					4	X		X
	MW-303		0937		X					4	X		X
	MW-304		1052		X					4	X		X
	MW-310		1027		X					4	X		X
	MW-311		0909		X					4	X		X

580-137665 Chain of Custody

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	EETN 3/12/24 1220	03/12/24	1220

IR11 3.9/3.8 WB Ice/Blo/cD

Version: 14Dec15

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:
☐ SGW FDG ☐ PIPELINE ☐ RETAIL
☐ CHEMICALS ☐ CONSULTANT ☐ LUBES
☐ TRANSPORTATION ☐ OTHER _____

Print Bill To Contact Name:

PlaNet Site or Project ID

PO #

GSAP Project ID

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 03/12/24

PAGE: 2 of 2

SAMPLING COMPANY: Blaine Tech Services, Inc
LOG CODE: BTSS
ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112
PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway
TELEPHONE: (425) 327-4585
FAX:
Bill To Contact E-MAIL: emily.blakeway@ghd.com

SITE ADDRESS: Street and City: 2555 13th Avenue
State: WA
GHD Project / Task Number: 12631170
EDF DELIVERABLE TO (Name, Company, Office Location): Emily Blakeway, GHD, WA
PHONE NO.: (425) 327-4585
E-MAIL: emily.blakeway@ghd.com
GHD Other ID
SAMPLER NAME(S) (Print): Jonah Davis
LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☐ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	UNIT COST 8260C BTEX	UNIT COST NWTPH-Dx	NON-UNIT COST NWTPH-Gx	FIELD NOTES: Container PID Readings or Laboratory Notes
	MW-312	03/12/24	0842	WT	X					4	X		X	
	MW-313	↓	0816	↓	X					6	X	X	X	
	MW-315	↓	0748	↓	X					6	X	X	X	

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FEDEX 3/12/24 1220	03/12/24	1220
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 580-137665-1

Login Number: 137665
List Number: 1
Creator: Prigge, Madison

List Source: Eurofins Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Emily Blakeway
GHD Services Inc.
9725 3rd Avenue NE, Suite 204
Seattle, Washington 98115

Generated 7/3/2024 3:16:40 PM

JOB DESCRIPTION

Shell - 2555 13th Avenue 12631170

JOB NUMBER

580-141296-1

Eurofins Seattle
5755 8th Street East
Tacoma WA 98424

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization



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7/3/2024 3:16:40 PM

Authorized for release by
Pauline Matlock, Project Manager
Pauline.Matlock@et.eurofinsus.com
(253)922-2310

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Job Narrative
580-141296-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/19/2024 12:29 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.8°C and 4.0°C.

Gasoline Range Organics
Method NWTPH_Gx_MS: The following samples were diluted due to the abundance of non-target analytes: MW-307 (580-141296-16) and TX-03A (580-141296-25). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS VOA
Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-113 (580-141296-5), MW-304 (580-141296-15), MW-307 (580-141296-16) and TX-03A (580-141296-25). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270E_SIM: The QC associated with 580-463142 is compliant under 8270E_SIM criteria for Terphenyl-d14. The software does not display the data to the whole number as is listed in the method (i.e. limit of 20%). When applying the evaluation to a whole number, the QC passes the criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Hydrocarbons
Method NWTPH_Dx: Surrogate recovery for the following samples were outside control limits: MW-113 (580-141296-5) and MW-307 (580-141296-16). Evidence of matrix interference is present; therefore, re-extraction was not performed. Results have been confirmed by re-analysis.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Definitions/Glossary

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue 12631170

Job ID: 580-141296-1

Client Sample ID: MW-05

Date Collected: 06/17/24 12:02
Date Received: 06/19/24 12:29

Lab Sample ID: 580-141296-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			06/20/24 21:07	1
Toluene	ND		1.00	0.390	ug/L			06/20/24 21:07	1
Ethylbenzene	ND		1.00	0.500	ug/L			06/20/24 21:07	1
Xylenes, Total	ND		2.00	0.530	ug/L			06/20/24 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/20/24 21:07*	*1*
4-Bromofluorobenzene (Surr)	*113*		*80 - 120*		*06/20/24 21:07*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 120*		*06/20/24 21:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*06/20/24 21:07*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			06/20/24 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*77 - 123*		*06/20/24 21:07*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		210	95.7	ug/L		06/20/24 08:44	07/01/24 17:55	1
Motor Oil (>C24-C36)	**166**	**J**	368	137	ug/L		06/20/24 08:44	07/01/24 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*50 - 150*	*06/20/24 08:44*	*07/01/24 17:55*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**122**	**J**	210	95.7	ug/L		06/20/24 08:44	06/21/24 19:51	1
Motor Oil (>C24-C36)	**224**	**J**	368	137	ug/L		06/20/24 08:44	06/21/24 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*50 - 150*	*06/20/24 08:44*	*06/21/24 19:51*	*1*

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-104
Lab Sample ID: 580-141296-2
Date Collected: 06/19/24 09:55
Matrix: Water
Date Received: 06/19/24 12:29

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1200		150	73.0	ug/L			06/26/24 06:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*77 - 123*		*06/26/24 06:02*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	458		204	93.0	ug/L		06/20/24 08:44	07/01/24 18:16	1
Motor Oil (>C24-C36)	ND		358	133	ug/L		06/20/24 08:44	07/01/24 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*50 - 150*	*06/20/24 08:44*	*07/01/24 18:16*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	1240		204	93.0	ug/L		06/20/24 08:44	06/21/24 20:12	1
Motor Oil (>C24-C36)	856		358	133	ug/L		06/20/24 08:44	06/21/24 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*50 - 150*	*06/20/24 08:44*	*06/21/24 20:12*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.68		2.00	0.200	ug/L		06/24/24 16:51	06/25/24 10:57	5

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-111
Lab Sample ID: 580-141296-3
Date Collected: 06/17/24 12:35
Matrix: Water
Date Received: 06/19/24 12:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**4.41**		1.00	0.240	ug/L			06/20/24 21:29	1
Toluene	ND		1.00	0.390	ug/L			06/20/24 21:29	1
Ethylbenzene	ND		1.00	0.500	ug/L			06/20/24 21:29	1
Xylenes, Total	ND		2.00	0.530	ug/L			06/20/24 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/20/24 21:29*	*1*
4-Bromofluorobenzene (Surr)	*115*		*80 - 120*		*06/20/24 21:29*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*06/20/24 21:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*06/20/24 21:29*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			06/20/24 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*77 - 123*		*06/20/24 21:29*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		208	94.8	ug/L		06/20/24 08:44	07/01/24 18:37	1
Motor Oil (>C24-C36)	ND		365	135	ug/L		06/20/24 08:44	07/01/24 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*50 - 150*	*06/20/24 08:44*	*07/01/24 18:37*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**142**	**J**	208	94.8	ug/L		06/20/24 08:44	06/21/24 20:33	1
Motor Oil (>C24-C36)	**199**	**J**	365	135	ug/L		06/20/24 08:44	06/21/24 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*50 - 150*	*06/20/24 08:44*	*06/21/24 20:33*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue 12631170

Job ID: 580-141296-1

Client Sample ID: MW-112A

Date Collected: 06/18/24 08:58
Date Received: 06/19/24 12:29

Lab Sample ID: 580-141296-4

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.95		1.00	0.240	ug/L			06/24/24 22:22	1
Toluene	1.48		1.00	0.390	ug/L			06/24/24 22:22	1
Ethylbenzene	47.1		1.00	0.500	ug/L			06/24/24 22:22	1
Xylenes, Total	3.49		2.00	0.530	ug/L			06/24/24 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*06/24/24 22:22*	*1*
4-Bromofluorobenzene (Surr)	*116*		*80 - 120*		*06/24/24 22:22*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*06/24/24 22:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*06/24/24 22:22*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1780		150	73.0	ug/L			06/24/24 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*77 - 123*		*06/24/24 22:22*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	3600		207	94.0	ug/L		06/20/24 08:44	07/01/24 18:58	1
Motor Oil (>C24-C36)	154	J	361	134	ug/L		06/20/24 08:44	07/01/24 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*50 - 150*	*06/20/24 08:44*	*07/01/24 18:58*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	5300		207	94.0	ug/L		06/20/24 08:44	06/28/24 12:34	1
Motor Oil (>C24-C36)	644		361	134	ug/L		06/20/24 08:44	06/28/24 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*50 - 150*	*06/20/24 08:44*	*06/28/24 12:34*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue 12631170

Job ID: 580-141296-1

Client Sample ID: MW-113

Date Collected: 06/17/24 12:55
Date Received: 06/19/24 12:29

Lab Sample ID: 580-141296-5

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	162		10.0	2.40	ug/L			06/21/24 02:08	10
Toluene	24.8		10.0	3.90	ug/L			06/21/24 02:08	10
Ethylbenzene	7.24	J	10.0	5.00	ug/L			06/21/24 02:08	10
Xylenes, Total	20.9		20.0	5.30	ug/L			06/21/24 02:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*80 - 120*		*06/21/24 02:08*	*10*
4-Bromofluorobenzene (Surr)	*118*		*80 - 120*		*06/21/24 02:08*	*10*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*06/21/24 02:08*	*10*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*06/21/24 02:08*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	412		150	73.0	ug/L			06/21/24 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*77 - 123*		*06/21/24 22:17*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	1640		215	98.0	ug/L		06/20/24 08:44	07/01/24 19:20	1
Motor Oil (>C24-C36)	ND		377	140	ug/L		06/20/24 08:44	07/01/24 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*50 - 150*	*06/20/24 08:44*	*07/01/24 19:20*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	3560		215	98.0	ug/L		06/20/24 08:44	06/28/24 12:55	1
Motor Oil (>C24-C36)	1180		377	140	ug/L		06/20/24 08:44	06/28/24 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*44*	*S1-*	*50 - 150*	*06/20/24 08:44*	*06/28/24 12:55*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue 12631170

Job ID: 580-141296-1

Client Sample ID: MW-114

Date Collected: 06/17/24 12:30
Date Received: 06/19/24 12:29

Lab Sample ID: 580-141296-6

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			06/20/24 21:51	1
Toluene	ND		1.00	0.390	ug/L			06/20/24 21:51	1
Ethylbenzene	ND		1.00	0.500	ug/L			06/20/24 21:51	1
Xylenes, Total	ND		2.00	0.530	ug/L			06/20/24 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*06/20/24 21:51*	*1*
4-Bromofluorobenzene (Surr)	*118*		*80 - 120*		*06/20/24 21:51*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*06/20/24 21:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*06/20/24 21:51*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			06/20/24 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*77 - 123*		*06/20/24 21:51*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		201	91.6	ug/L		06/20/24 08:44	07/01/24 19:41	1
Motor Oil (>C24-C36)	ND		352	131	ug/L		06/20/24 08:44	07/01/24 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*50 - 150*	*06/20/24 08:44*	*07/01/24 19:41*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**118**	**J**	201	91.6	ug/L		06/20/24 08:44	06/21/24 21:57	1
Motor Oil (>C24-C36)	**286**	**J**	352	131	ug/L		06/20/24 08:44	06/21/24 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*50 - 150*	*06/20/24 08:44*	*06/21/24 21:57*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue 12631170

Job ID: 580-141296-1

Client Sample ID: MW-115

Date Collected: 06/17/24 11:58
Date Received: 06/19/24 12:29

Lab Sample ID: 580-141296-7

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			06/20/24 23:16	1
Toluene	ND		1.00	0.390	ug/L			06/20/24 23:16	1
Ethylbenzene	ND		1.00	0.500	ug/L			06/20/24 23:16	1
Xylenes, Total	ND		2.00	0.530	ug/L			06/20/24 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/20/24 23:16*	*1*
4-Bromofluorobenzene (Surr)	*117*		*80 - 120*		*06/20/24 23:16*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*06/20/24 23:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*06/20/24 23:16*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**993**		150	73.0	ug/L			06/20/24 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*77 - 123*		*06/20/24 23:16*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**2520**		202	91.7	ug/L		06/20/24 08:44	07/01/24 20:24	1
Motor Oil (>C24-C36)	**165**	**J**	353	131	ug/L		06/20/24 08:44	07/01/24 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*50 - 150*	*06/20/24 08:44*	*07/01/24 20:24*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**4010**		202	91.7	ug/L		06/20/24 08:44	06/21/24 22:18	1
Motor Oil (>C24-C36)	**1340**		353	131	ug/L		06/20/24 08:44	06/21/24 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*50 - 150*	*06/20/24 08:44*	*06/21/24 22:18*	*1*

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-202
Lab Sample ID: 580-141296-8
Date Collected: 06/18/24 12:04
Matrix: Water
Date Received: 06/19/24 12:29

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	488		150	73.0	ug/L			06/24/24 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*77 - 123*		*06/24/24 22:44*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	1880		202	91.8	ug/L		06/20/24 08:44	07/01/24 20:46	1
Motor Oil (>C24-C36)	176	J	353	131	ug/L		06/20/24 08:44	07/01/24 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*50 - 150*	*06/20/24 08:44*	*07/01/24 20:46*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	3430		202	91.8	ug/L		06/20/24 08:44	06/21/24 22:39	1
Motor Oil (>C24-C36)	688		353	131	ug/L		06/20/24 08:44	06/21/24 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*50 - 150*	*06/20/24 08:44*	*06/21/24 22:39*	*1*

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-203
Lab Sample ID: 580-141296-9
Date Collected: 06/18/24 11:48
Matrix: Water
Date Received: 06/19/24 12:29

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	92.3	J	150	73.0	ug/L			06/24/24 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*77 - 123*		*06/24/24 19:53*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	154	J	204	92.9	ug/L		06/20/24 08:44	07/01/24 21:07	1
Motor Oil (>C24-C36)	296	J	357	133	ug/L		06/20/24 08:44	07/01/24 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*50 - 150*	*06/20/24 08:44*	*07/01/24 21:07*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	397		204	92.9	ug/L		06/20/24 08:44	06/21/24 23:00	1
Motor Oil (>C24-C36)	754		357	133	ug/L		06/20/24 08:44	06/21/24 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*50 - 150*	*06/20/24 08:44*	*06/21/24 23:00*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue 12631170

Job ID: 580-141296-1

Client Sample ID: MW-213

Date Collected: 06/19/24 09:54
Date Received: 06/19/24 12:29

Lab Sample ID: 580-141296-10

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			06/27/24 22:06	1
Toluene	ND		1.00	0.390	ug/L			06/27/24 22:06	1
Ethylbenzene	ND		1.00	0.500	ug/L			06/27/24 22:06	1
Xylenes, Total	ND		2.00	0.530	ug/L			06/27/24 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/27/24 22:06*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/27/24 22:06*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*06/27/24 22:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*06/27/24 22:06*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	94.6	J	150	73.0	ug/L			06/27/24 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*77 - 123*		*06/27/24 22:06*	*1*

Method: SW846 8270E SIM - Compuestos Orgánicos Semivolátiles (GCMS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.529	0.173	ug/L		06/24/24 08:35	06/24/24 20:19	1
2-Methylnaphthalene	ND		0.212	0.0413	ug/L		06/24/24 08:35	06/24/24 20:19	1
1-Methylnaphthalene	ND		0.106	0.0349	ug/L		06/24/24 08:35	06/24/24 20:19	1
Acenaphthylene	ND		0.0529	0.00953	ug/L		06/24/24 08:35	06/24/24 20:19	1
Acenaphthene	ND		0.106	0.0148	ug/L		06/24/24 08:35	06/24/24 20:19	1
Fluorene	ND		0.106	0.0180	ug/L		06/24/24 08:35	06/24/24 20:19	1
Phenanthrene	ND		0.106	0.0392	ug/L		06/24/24 08:35	06/24/24 20:19	1
Anthracene	ND		0.106	0.0233	ug/L		06/24/24 08:35	06/24/24 20:19	1
Fluoranthene	ND		0.212	0.0572	ug/L		06/24/24 08:35	06/24/24 20:19	1
Pyrene	ND		0.106	0.0349	ug/L		06/24/24 08:35	06/24/24 20:19	1
Benzo[a]anthracene	ND		0.0529	0.0148	ug/L		06/24/24 08:35	06/24/24 20:19	1
Chrysene	ND		0.106	0.0392	ug/L		06/24/24 08:35	06/24/24 20:19	1
Benzo[b]fluoranthene	ND		0.106	0.0233	ug/L		06/24/24 08:35	06/24/24 20:19	1
Benzo[k]fluoranthene	ND		0.0529	0.0127	ug/L		06/24/24 08:35	06/24/24 20:19	1
Benzo[a]pyrene	ND		0.106	0.0233	ug/L		06/24/24 08:35	06/24/24 20:19	1
Indeno[1,2,3-cd]pyrene	ND		0.0529	0.0148	ug/L		06/24/24 08:35	06/24/24 20:19	1
Dibenz(a,h)anthracene	ND		0.106	0.0159	ug/L		06/24/24 08:35	06/24/24 20:19	1
Benzo[g,h,i]perylene	ND		0.0529	0.0127	ug/L		06/24/24 08:35	06/24/24 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*87*		*29 - 150*	*06/24/24 08:35*	*06/24/24 20:19*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		200	90.9	ug/L		06/20/24 08:44	07/01/24 21:28	1
Motor Oil (>C24-C36)	ND		349	130	ug/L		06/20/24 08:44	07/01/24 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*50 - 150*	*06/20/24 08:44*	*07/01/24 21:28*	*1*

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-213
Lab Sample ID: 580-141296-10
Date Collected: 06/19/24 09:54
Matrix: Water
Date Received: 06/19/24 12:29

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	288		200	90.9	ug/L		06/20/24 08:44	06/21/24 23:21	1
Motor Oil (>C24-C36)	349		349	130	ug/L		06/20/24 08:44	06/21/24 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*50 - 150*	*06/20/24 08:44*	*06/21/24 23:21*	*1*

Client Sample ID: MW-214
Lab Sample ID: 580-141296-11

Date Collected: 06/19/24 09:23
Matrix: Water

Date Received: 06/19/24 12:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			06/25/24 17:43	1
Toluene	ND		1.00	0.390	ug/L			06/25/24 17:43	1
Ethylbenzene	ND		1.00	0.500	ug/L			06/25/24 17:43	1
Xylenes, Total	ND		2.00	0.530	ug/L			06/25/24 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/25/24 17:43*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/25/24 17:43*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*06/25/24 17:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*06/25/24 17:43*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			06/27/24 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*77 - 123*		*06/27/24 19:24*	*1*

Method: SW846 8270E SIM - Compuestos Orgánicos Semivolátiles (GCMS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.504	0.164	ug/L		06/24/24 08:35	06/24/24 20:44	1
2-Methylnaphthalene	ND		0.202	0.0393	ug/L		06/24/24 08:35	06/24/24 20:44	1
1-Methylnaphthalene	ND		0.101	0.0333	ug/L		06/24/24 08:35	06/24/24 20:44	1
Acenaphthylene	ND		0.0504	0.00908	ug/L		06/24/24 08:35	06/24/24 20:44	1
Acenaphthene	ND		0.101	0.0141	ug/L		06/24/24 08:35	06/24/24 20:44	1
Fluorene	ND		0.101	0.0172	ug/L		06/24/24 08:35	06/24/24 20:44	1
Phenanthrene	ND		0.101	0.0373	ug/L		06/24/24 08:35	06/24/24 20:44	1
Anthracene	ND		0.101	0.0222	ug/L		06/24/24 08:35	06/24/24 20:44	1
Fluoranthene	ND		0.202	0.0545	ug/L		06/24/24 08:35	06/24/24 20:44	1
Pyrene	ND		0.101	0.0333	ug/L		06/24/24 08:35	06/24/24 20:44	1
Benzo[a]anthracene	ND		0.0504	0.0141	ug/L		06/24/24 08:35	06/24/24 20:44	1
Chrysene	ND		0.101	0.0373	ug/L		06/24/24 08:35	06/24/24 20:44	1
Benzo[b]fluoranthene	ND		0.101	0.0222	ug/L		06/24/24 08:35	06/24/24 20:44	1
Benzo[k]fluoranthene	ND		0.0504	0.0121	ug/L		06/24/24 08:35	06/24/24 20:44	1
Benzo[a]pyrene	ND		0.101	0.0222	ug/L		06/24/24 08:35	06/24/24 20:44	1
Indeno[1,2,3-cd]pyrene	ND		0.0504	0.0141	ug/L		06/24/24 08:35	06/24/24 20:44	1
Dibenz(a,h)anthracene	ND		0.101	0.0151	ug/L		06/24/24 08:35	06/24/24 20:44	1
Benzo[g,h,i]perylene	ND		0.0504	0.0121	ug/L		06/24/24 08:35	06/24/24 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*99*		*29 - 150*	*06/24/24 08:35*	*06/24/24 20:44*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		210	95.6	ug/L		06/20/24 08:44	06/21/24 23:41	1
Motor Oil (>C24-C36)	ND		368	137	ug/L		06/20/24 08:44	06/21/24 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*50 - 150*	*06/20/24 08:44*	*06/21/24 23:41*	*1*

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-301
Lab Sample ID: 580-141296-12
Date Collected: 06/18/24 10:31
Matrix: Water
Date Received: 06/19/24 12:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	86.4		1.00	0.240	ug/L			06/24/24 20:14	1
Toluene	3.59		1.00	0.390	ug/L			06/24/24 20:14	1
Ethylbenzene	1.21		1.00	0.500	ug/L			06/24/24 20:14	1
Xylenes, Total	8.96		2.00	0.530	ug/L			06/24/24 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/24/24 20:14*	*1*
4-Bromofluorobenzene (Surr)	*114*		*80 - 120*		*06/24/24 20:14*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*06/24/24 20:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*06/24/24 20:14*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1440		150	73.0	ug/L			06/24/24 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*77 - 123*		*06/24/24 20:14*	*1*

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-302
Lab Sample ID: 580-141296-13
Date Collected: 06/18/24 09:48
Matrix: Water
Date Received: 06/19/24 12:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**35.2**		1.00	0.240	ug/L			06/24/24 20:35	1
Toluene	**2.07**		1.00	0.390	ug/L			06/24/24 20:35	1
Ethylbenzene	ND		1.00	0.500	ug/L			06/24/24 20:35	1
Xylenes, Total	**4.79**		2.00	0.530	ug/L			06/24/24 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/24/24 20:35*	*1*
4-Bromofluorobenzene (Surr)	*118*		*80 - 120*		*06/24/24 20:35*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*06/24/24 20:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*06/24/24 20:35*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**659**		150	73.0	ug/L			06/24/24 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*77 - 123*		*06/24/24 20:35*	*1*

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-303
Lab Sample ID: 580-141296-14
Date Collected: 06/18/24 10:35
Matrix: Water
Date Received: 06/19/24 12:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	44.3		1.00	0.240	ug/L			06/24/24 20:57	1
Toluene	2.38		1.00	0.390	ug/L			06/24/24 20:57	1
Ethylbenzene	74.8		1.00	0.500	ug/L			06/24/24 20:57	1
Xylenes, Total	9.29		2.00	0.530	ug/L			06/24/24 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*06/24/24 20:57*	*1*
4-Bromofluorobenzene (Surr)	*115*		*80 - 120*		*06/24/24 20:57*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 120*		*06/24/24 20:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*06/24/24 20:57*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2590		150	73.0	ug/L			06/24/24 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*77 - 123*		*06/24/24 20:57*	*1*

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-304
Lab Sample ID: 580-141296-15
Date Collected: 06/18/24 09:55
Matrix: Water
Date Received: 06/19/24 12:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	13.2		1.00	0.390	ug/L			06/24/24 21:18	1
Ethylbenzene	0.734	J	1.00	0.500	ug/L			06/24/24 21:18	1
Xylenes, Total	31.3		2.00	0.530	ug/L			06/24/24 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*06/24/24 21:18*	*1*
4-Bromofluorobenzene (Surr)	*113*		*80 - 120*		*06/24/24 21:18*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*06/24/24 21:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*06/24/24 21:18*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	273		10.0	2.40	ug/L			06/25/24 19:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/25/24 19:15*	*10*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/25/24 19:15*	*10*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*06/25/24 19:15*	*10*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*06/25/24 19:15*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1720		150	73.0	ug/L			06/24/24 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*77 - 123*		*06/24/24 21:18*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue 12631170

Job ID: 580-141296-1

Client Sample ID: MW-307

Date Collected: 06/19/24 07:56
Date Received: 06/19/24 12:29

Lab Sample ID: 580-141296-16

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	49.8		10.0	2.40	ug/L			06/25/24 18:52	10
Toluene	16.4		10.0	3.90	ug/L			06/25/24 18:52	10
Ethylbenzene	67.9		10.0	5.00	ug/L			06/25/24 18:52	10
Xylenes, Total	41.6		20.0	5.30	ug/L			06/25/24 18:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/25/24 18:52*	*10*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/25/24 18:52*	*10*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*06/25/24 18:52*	*10*
1,2-Dichloroethane-d4 (Surr)	*90*		*80 - 120*		*06/25/24 18:52*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2460		1500	730	ug/L			06/25/24 18:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*77 - 123*		*06/25/24 18:52*	*10*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	2300		210	95.5	ug/L		06/20/24 08:44	07/01/24 21:49	1
Motor Oil (>C24-C36)	ND		367	136	ug/L		06/20/24 08:44	07/01/24 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*50 - 150*	*06/20/24 08:44*	*07/01/24 21:49*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	3550		210	95.5	ug/L		06/20/24 08:44	06/28/24 13:16	1
Motor Oil (>C24-C36)	440		367	136	ug/L		06/20/24 08:44	06/28/24 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*	*S1-*	*50 - 150*	*06/20/24 08:44*	*06/28/24 13:16*	*1*

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-308
Lab Sample ID: 580-141296-17
Date Collected: 06/19/24 08:03
Matrix: Water
Date Received: 06/19/24 12:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			06/25/24 18:06	1
Toluene	ND		1.00	0.390	ug/L			06/25/24 18:06	1
Ethylbenzene	ND		1.00	0.500	ug/L			06/25/24 18:06	1
Xylenes, Total	ND		2.00	0.530	ug/L			06/25/24 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/25/24 18:06*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/25/24 18:06*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*06/25/24 18:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*06/25/24 18:06*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**77.7**	**J**	150	73.0	ug/L			06/25/24 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*77 - 123*		*06/25/24 18:06*	*1*

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-309
Lab Sample ID: 580-141296-18
Date Collected: 06/18/24 08:10
Matrix: Water
Date Received: 06/19/24 12:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			06/24/24 21:39	1
Toluene	ND		1.00	0.390	ug/L			06/24/24 21:39	1
Ethylbenzene	ND		1.00	0.500	ug/L			06/24/24 21:39	1
Xylenes, Total	ND		2.00	0.530	ug/L			06/24/24 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/24/24 21:39*	*1*
4-Bromofluorobenzene (Surr)	*118*		*80 - 120*		*06/24/24 21:39*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*06/24/24 21:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*06/24/24 21:39*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**129**	**J**	150	73.0	ug/L			06/24/24 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*77 - 123*		*06/24/24 21:39*	*1*

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-310
Lab Sample ID: 580-141296-19
Date Collected: 06/18/24 09:20
Matrix: Water
Date Received: 06/19/24 12:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	23.3		1.00	0.240	ug/L			06/27/24 23:15	1
Toluene	1.64		1.00	0.390	ug/L			06/27/24 23:15	1
Ethylbenzene	1.45		1.00	0.500	ug/L			06/27/24 23:15	1
Xylenes, Total	2.45		2.00	0.530	ug/L			06/27/24 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/27/24 23:15*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/27/24 23:15*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*06/27/24 23:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*06/27/24 23:15*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1060		150	73.0	ug/L			06/27/24 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*77 - 123*		*06/27/24 23:15*	*1*

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-311
Lab Sample ID: 580-141296-20
Date Collected: 06/17/24 10:58
Matrix: Water
Date Received: 06/19/24 12:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.662	J	1.00	0.240	ug/L			06/20/24 23:38	1
Toluene	1.86		1.00	0.390	ug/L			06/20/24 23:38	1
Ethylbenzene	ND		1.00	0.500	ug/L			06/20/24 23:38	1
Xylenes, Total	0.853	J	2.00	0.530	ug/L			06/20/24 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/20/24 23:38*	*1*
4-Bromofluorobenzene (Surr)	*115*		*80 - 120*		*06/20/24 23:38*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 120*		*06/20/24 23:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*06/20/24 23:38*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	3010		150	73.0	ug/L			06/20/24 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*77 - 123*		*06/20/24 23:38*	*1*

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-312
Lab Sample ID: 580-141296-21
Date Collected: 06/18/24 11:05
Matrix: Water
Date Received: 06/19/24 12:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.59		1.00	0.240	ug/L			06/24/24 22:21	1
Toluene	2.10		1.00	0.390	ug/L			06/24/24 22:21	1
Ethylbenzene	1.23		1.00	0.500	ug/L			06/24/24 22:21	1
Xylenes, Total	1.92	J	2.00	0.530	ug/L			06/24/24 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/24/24 22:21*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*06/24/24 22:21*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*06/24/24 22:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*80 - 120*		*06/24/24 22:21*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	3610		150	73.0	ug/L			06/24/24 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*77 - 123*		*06/24/24 22:21*	*1*

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-313
Lab Sample ID: 580-141296-22
Date Collected: 06/18/24 08:45
Matrix: Water
Date Received: 06/19/24 12:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			06/24/24 23:08	1
Toluene	ND		1.00	0.390	ug/L			06/24/24 23:08	1
Ethylbenzene	ND		1.00	0.500	ug/L			06/24/24 23:08	1
Xylenes, Total	ND		2.00	0.530	ug/L			06/24/24 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/24/24 23:08*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/24/24 23:08*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*06/24/24 23:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*06/24/24 23:08*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			06/24/24 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*77 - 123*		*06/24/24 23:08*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		205	93.5	ug/L		06/20/24 08:44	07/01/24 22:10	1
Motor Oil (>C24-C36)	ND		359	134	ug/L		06/20/24 08:44	07/01/24 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*50 - 150*	*06/20/24 08:44*	*07/01/24 22:10*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**99.2**	**J**	205	93.5	ug/L		06/20/24 08:44	06/28/24 13:37	1
Motor Oil (>C24-C36)	**150**	**J**	359	134	ug/L		06/20/24 08:44	06/28/24 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*50 - 150*	*06/20/24 08:44*	*06/28/24 13:37*	*1*

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-314
Lab Sample ID: 580-141296-23
Date Collected: 06/19/24 08:50
Matrix: Water
Date Received: 06/19/24 12:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.334	J	1.00	0.240	ug/L			06/27/24 21:20	1
Toluene	0.504	J	1.00	0.390	ug/L			06/27/24 21:20	1
Ethylbenzene	ND		1.00	0.500	ug/L			06/27/24 21:20	1
Xylenes, Total	0.569	J	2.00	0.530	ug/L			06/27/24 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/27/24 21:20*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/27/24 21:20*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*06/27/24 21:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*06/27/24 21:20*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	376		150	73.0	ug/L			06/27/24 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*77 - 123*		*06/27/24 21:20*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	632		205	93.1	ug/L		06/20/24 08:44	07/01/24 22:30	1
Motor Oil (>C24-C36)	ND		358	133	ug/L		06/20/24 08:44	07/01/24 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*50 - 150*	*06/20/24 08:44*	*07/01/24 22:30*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	1340		205	93.1	ug/L		06/20/24 08:44	06/28/24 13:58	1
Motor Oil (>C24-C36)	442		358	133	ug/L		06/20/24 08:44	06/28/24 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*50 - 150*	*06/20/24 08:44*	*06/28/24 13:58*	*1*

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-315
Lab Sample ID: 580-141296-24
Date Collected: 06/19/24 09:18
Matrix: Water
Date Received: 06/19/24 12:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	17.4		1.00	0.240	ug/L			06/27/24 21:43	1
Toluene	3.40		1.00	0.390	ug/L			06/27/24 21:43	1
Ethylbenzene	0.941	J	1.00	0.500	ug/L			06/27/24 21:43	1
Xylenes, Total	2.29		2.00	0.530	ug/L			06/27/24 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/27/24 21:43*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*06/27/24 21:43*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*06/27/24 21:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*80 - 120*		*06/27/24 21:43*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	4090		150	73.0	ug/L			06/27/24 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*77 - 123*		*06/27/24 21:43*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	2820		207	94.0	ug/L		06/20/24 08:50	07/01/24 16:08	1
Motor Oil (>C24-C36)	ND		361	134	ug/L		06/20/24 08:50	07/01/24 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*50 - 150*	*06/20/24 08:50*	*07/01/24 16:08*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	4490		207	94.0	ug/L		06/20/24 08:50	06/27/24 20:50	1
Motor Oil (>C24-C36)	408		361	134	ug/L		06/20/24 08:50	06/27/24 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*50 - 150*	*06/20/24 08:50*	*06/27/24 20:50*	*1*

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: TX-03A
Date Collected: 06/19/24 08:42
Date Received: 06/19/24 12:29

Lab Sample ID: 580-141296-25
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	152		10.0	2.40	ug/L			06/27/24 23:38	10
Toluene	7.90	J	10.0	3.90	ug/L			06/27/24 23:38	10
Ethylbenzene	ND		10.0	5.00	ug/L			06/27/24 23:38	10
Xylenes, Total	6.29	J	20.0	5.30	ug/L			06/27/24 23:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/27/24 23:38*	*10*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/27/24 23:38*	*10*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*06/27/24 23:38*	*10*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*06/27/24 23:38*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2330		1500	730	ug/L			06/27/24 23:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*77 - 123*		*06/27/24 23:38*	*10*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue 12631170

Job ID: 580-141296-1

Client Sample ID: SH-04

Date Collected: 06/18/24 08:12
Date Received: 06/19/24 12:29

Lab Sample ID: 580-141296-26

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.49		1.00	0.240	ug/L			06/24/24 22:44	1
Toluene	0.817	J	1.00	0.390	ug/L			06/24/24 22:44	1
Ethylbenzene	1.06		1.00	0.500	ug/L			06/24/24 22:44	1
Xylenes, Total	1.76	J	2.00	0.530	ug/L			06/24/24 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/24/24 22:44*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/24/24 22:44*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 120*		*06/24/24 22:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*80 - 120*		*06/24/24 22:44*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	232		150	73.0	ug/L			06/24/24 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*77 - 123*		*06/24/24 22:44*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	401		201	91.4	ug/L		06/20/24 08:50	07/01/24 16:30	1
Motor Oil (>C24-C36)	138	J	352	131	ug/L		06/20/24 08:50	07/01/24 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*50 - 150*	*06/20/24 08:50*	*07/01/24 16:30*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	904		201	91.4	ug/L		06/20/24 08:50	06/27/24 21:11	1
Motor Oil (>C24-C36)	287	J	352	131	ug/L		06/20/24 08:50	06/27/24 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*50 - 150*	*06/20/24 08:50*	*06/27/24 21:11*	*1*

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: TB-1
Lab Sample ID: 580-141296-27
Date Collected: 06/19/24 09:00
Matrix: Water
Date Received: 06/19/24 12:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			06/27/24 17:06	1
Toluene	**1.06**		1.00	0.390	ug/L			06/27/24 17:06	1
Ethylbenzene	ND		1.00	0.500	ug/L			06/27/24 17:06	1
Xylenes, Total	**1.39**	**J**	2.00	0.530	ug/L			06/27/24 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/27/24 17:06*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/27/24 17:06*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*06/27/24 17:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*		*06/27/24 17:06*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			06/27/24 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*77 - 123*		*06/27/24 17:06*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-462865/11
Matrix: Water
Analysis Batch: 462865

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			06/20/24 20:46	1
Toluene	ND		1.00	0.390	ug/L			06/20/24 20:46	1
Ethylbenzene	ND		1.00	0.500	ug/L			06/20/24 20:46	1
Xylenes, Total	ND		2.00	0.530	ug/L			06/20/24 20:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/20/24 20:46*	*1*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*		*06/20/24 20:46*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*06/20/24 20:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*06/20/24 20:46*	*1*

Lab Sample ID: LCS 580-462865/6
Matrix: Water
Analysis Batch: 462865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			5.00	5.109		ug/L		102	80 - 122		
Toluene			5.00	4.667		ug/L		93	80 - 120		
Ethylbenzene			5.00	4.824		ug/L		96	80 - 120		
Xylenes, Total			10.0	10.45		ug/L		104	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*

Lab Sample ID: LCSD 580-462865/7
Matrix: Water
Analysis Batch: 462865

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			5.00	5.097		ug/L		102	80 - 122	0	14
Toluene			5.00	4.719		ug/L		94	80 - 120	1	13
Ethylbenzene			5.00	4.797		ug/L		96	80 - 120	1	14
Xylenes, Total			10.0	10.29		ug/L		103	80 - 120	2	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*114*		*80 - 120*
Dibromofluoromethane (Surr)	*113*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-463128/11
Matrix: Water
Analysis Batch: 463128

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			06/24/24 18:07	1
Toluene	ND		1.00	0.390	ug/L			06/24/24 18:07	1
Ethylbenzene	ND		1.00	0.500	ug/L			06/24/24 18:07	1
Xylenes, Total	ND		2.00	0.530	ug/L			06/24/24 18:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/24/24 18:07*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/24/24 18:07*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*06/24/24 18:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*06/24/24 18:07*	*1*

Lab Sample ID: LCS 580-463128/6
Matrix: Water
Analysis Batch: 463128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			5.00	4.573		ug/L		91	80 - 122		
Toluene			5.00	4.560		ug/L		91	80 - 120		
Ethylbenzene			5.00	4.656		ug/L		93	80 - 120		
Xylenes, Total			10.0	9.483		ug/L		95	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*

Lab Sample ID: LCSD 580-463128/7
Matrix: Water
Analysis Batch: 463128

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			5.00	4.704		ug/L		94	80 - 122	3	14
Toluene			5.00	4.731		ug/L		95	80 - 120	4	13
Ethylbenzene			5.00	4.822		ug/L		96	80 - 120	4	14
Xylenes, Total			10.0	9.718		ug/L		97	80 - 120	2	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*90*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-463129/11
Matrix: Water
Analysis Batch: 463129

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			06/24/24 17:00	1
Toluene	ND		1.00	0.390	ug/L			06/24/24 17:00	1
Ethylbenzene	ND		1.00	0.500	ug/L			06/24/24 17:00	1
Xylenes, Total	ND		2.00	0.530	ug/L			06/24/24 17:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/24/24 17:00*	*1*
4-Bromofluorobenzene (Surr)	*116*		*80 - 120*		*06/24/24 17:00*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*06/24/24 17:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*06/24/24 17:00*	*1*

Lab Sample ID: LCS 580-463129/6
Matrix: Water
Analysis Batch: 463129

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			10.0	10.32		ug/L		103	80 - 122		
Toluene			10.0	9.454		ug/L		95	80 - 120		
Ethylbenzene			10.0	9.923		ug/L		99	80 - 120		
Xylenes, Total			20.0	20.35		ug/L		102	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*

Lab Sample ID: LCSD 580-463129/7
Matrix: Water
Analysis Batch: 463129

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			10.0	10.31		ug/L		103	80 - 122	0	14
Toluene			10.0	9.238		ug/L		92	80 - 120	2	13
Ethylbenzene			10.0	9.533		ug/L		95	80 - 120	4	14
Xylenes, Total			20.0	20.35		ug/L		102	80 - 120	0	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*113*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-463187/11
Matrix: Water
Analysis Batch: 463187

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			06/25/24 14:38	1
Toluene	ND		1.00	0.390	ug/L			06/25/24 14:38	1
Ethylbenzene	ND		1.00	0.500	ug/L			06/25/24 14:38	1
Xylenes, Total	ND		2.00	0.530	ug/L			06/25/24 14:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/25/24 14:38*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/25/24 14:38*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*06/25/24 14:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*06/25/24 14:38*	*1*

Lab Sample ID: LCS 580-463187/6
Matrix: Water
Analysis Batch: 463187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			5.00	4.343		ug/L		87	80 - 122		
Toluene			5.00	4.385		ug/L		88	80 - 120		
Ethylbenzene			5.00	4.307		ug/L		86	80 - 120		
Xylenes, Total			10.0	8.839		ug/L		88	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*

Lab Sample ID: LCSD 580-463187/7
Matrix: Water
Analysis Batch: 463187

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			5.00	4.262		ug/L		85	80 - 122	2	14
Toluene			5.00	4.172		ug/L		83	80 - 120	5	13
Ethylbenzene			5.00	4.179		ug/L		84	80 - 120	3	14
Xylenes, Total			10.0	8.482		ug/L		85	80 - 120	4	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*91*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-463470/11
Matrix: Water
Analysis Batch: 463470

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			06/27/24 16:42	1
Toluene	ND		1.00	0.390	ug/L			06/27/24 16:42	1
Ethylbenzene	ND		1.00	0.500	ug/L			06/27/24 16:42	1
Xylenes, Total	ND		2.00	0.530	ug/L			06/27/24 16:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/27/24 16:42*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/27/24 16:42*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*06/27/24 16:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*06/27/24 16:42*	*1*

Lab Sample ID: LCS 580-463470/6
Matrix: Water
Analysis Batch: 463470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			5.00	4.506		ug/L		90	80 - 122		
Toluene			5.00	4.553		ug/L		91	80 - 120		
Ethylbenzene			5.00	4.524		ug/L		90	80 - 120		
Xylenes, Total			10.0	9.012		ug/L		90	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*90*		*80 - 120*

Lab Sample ID: LCSD 580-463470/7
Matrix: Water
Analysis Batch: 463470

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			5.00	4.735		ug/L		95	80 - 122	5	14
Toluene			5.00	4.625		ug/L		93	80 - 120	2	13
Ethylbenzene			5.00	4.588		ug/L		92	80 - 120	1	14
Xylenes, Total			10.0	9.247		ug/L		92	80 - 120	3	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*91*		*80 - 120*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 580-462866/11
Matrix: Water
Analysis Batch: 462866

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			06/20/24 20:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*77 - 123*		*06/20/24 20:46*	*1*

Lab Sample ID: LCS 580-462866/8
Matrix: Water
Analysis Batch: 462866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Gasoline			500	507.6		ug/L		102	55 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*77 - 123*

Lab Sample ID: LCSD 580-462866/9
Matrix: Water
Analysis Batch: 462866

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline			500	528.0		ug/L		106	55 - 148	4	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*77 - 123*

Lab Sample ID: MB 580-462989/11
Matrix: Water
Analysis Batch: 462989

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			06/21/24 15:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*77 - 123*		*06/21/24 15:40*	*1*

Lab Sample ID: LCS 580-462989/8
Matrix: Water
Analysis Batch: 462989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Gasoline			500	510.8		ug/L		102	55 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*77 - 123*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCSD 580-462989/9
Matrix: Water
Analysis Batch: 462989

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline			500	498.9		ug/L		100	55 - 148	2	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*77 - 123*

Lab Sample ID: MB 580-463124/11
Matrix: Water
Analysis Batch: 463124

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			06/24/24 18:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*77 - 123*		*06/24/24 18:07*	*1*

Lab Sample ID: LCS 580-463124/8
Matrix: Water
Analysis Batch: 463124

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Gasoline			500	507.6		ug/L		102	55 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*77 - 123*

Lab Sample ID: LCSD 580-463124/9
Matrix: Water
Analysis Batch: 463124

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline			500	520.0		ug/L		104	55 - 148	2	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*77 - 123*

Lab Sample ID: MB 580-463130/11
Matrix: Water
Analysis Batch: 463130

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			06/24/24 17:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*77 - 123*		*06/24/24 17:00*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCS 580-463130/8
Matrix: Water
Analysis Batch: 463130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Gasoline			500	507.6		ug/L		102	55 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*77 - 123*

Lab Sample ID: LCSD 580-463130/9
Matrix: Water
Analysis Batch: 463130

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline			500	477.3		ug/L		96	55 - 148	6	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*77 - 123*

Lab Sample ID: 580-141365-H-4 MS
Matrix: Water
Analysis Batch: 463130

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Gasoline	ND		500	534.5		ug/L		107	55 - 148		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*77 - 123*

Lab Sample ID: 580-141365-I-4 MSD
Matrix: Water
Analysis Batch: 463130

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline	ND		500	507.2		ug/L		102	55 - 148	5	10

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*77 - 123*

Lab Sample ID: MB 580-463183/11
Matrix: Water
Analysis Batch: 463183

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			06/25/24 14:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*77 - 123*		*06/25/24 14:38*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCS 580-463183/8
Matrix: Water
Analysis Batch: 463183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Gasoline			500	500.3		ug/L		100	55 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*77 - 123*

Lab Sample ID: LCSD 580-463183/9
Matrix: Water
Analysis Batch: 463183

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline			500	493.5		ug/L		99	55 - 148	1	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*77 - 123*

Lab Sample ID: MB 580-463251/11
Matrix: Water
Analysis Batch: 463251

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			06/26/24 02:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*77 - 123*		*06/26/24 02:34*	*1*

Lab Sample ID: LCS 580-463251/8
Matrix: Water
Analysis Batch: 463251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Gasoline			500	511.0		ug/L		102	55 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*77 - 123*

Lab Sample ID: LCSD 580-463251/9
Matrix: Water
Analysis Batch: 463251

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline			500	493.5		ug/L		99	55 - 148	3	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*77 - 123*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: MB 580-463466/11
Matrix: Water
Analysis Batch: 463466

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			06/27/24 16:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*77 - 123*		*06/27/24 16:42*	*1*

Lab Sample ID: LCS 580-463466/8
Matrix: Water
Analysis Batch: 463466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Gasoline			500	508.9		ug/L		102	55 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*77 - 123*

Lab Sample ID: LCSD 580-463466/9
Matrix: Water
Analysis Batch: 463466

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline			500	510.7		ug/L		102	55 - 148	0	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*77 - 123*

Method: 8270E SIM - Compuestos Orgánicos Semivolátiles (GCMS)

Lab Sample ID: MB 580-463066/1-A
Matrix: Water
Analysis Batch: 463142

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 463066

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.500	0.163	ug/L		06/24/24 08:35	06/24/24 19:03	1
2-Methylnaphthalene	ND		0.200	0.0390	ug/L		06/24/24 08:35	06/24/24 19:03	1
1-Methylnaphthalene	ND		0.100	0.0330	ug/L		06/24/24 08:35	06/24/24 19:03	1
Acenaphthylene	ND		0.0500	0.00900	ug/L		06/24/24 08:35	06/24/24 19:03	1
Acenaphthene	ND		0.100	0.0140	ug/L		06/24/24 08:35	06/24/24 19:03	1
Fluorene	ND		0.100	0.0170	ug/L		06/24/24 08:35	06/24/24 19:03	1
Phenanthrene	ND		0.100	0.0370	ug/L		06/24/24 08:35	06/24/24 19:03	1
Anthracene	ND		0.100	0.0220	ug/L		06/24/24 08:35	06/24/24 19:03	1
Fluoranthene	ND		0.200	0.0540	ug/L		06/24/24 08:35	06/24/24 19:03	1
Pyrene	ND		0.100	0.0330	ug/L		06/24/24 08:35	06/24/24 19:03	1
Benzo[a]anthracene	ND		0.0500	0.0140	ug/L		06/24/24 08:35	06/24/24 19:03	1
Chrysene	ND		0.100	0.0370	ug/L		06/24/24 08:35	06/24/24 19:03	1
Benzo[b]fluoranthene	ND		0.100	0.0220	ug/L		06/24/24 08:35	06/24/24 19:03	1
Benzo[k]fluoranthene	ND		0.0500	0.0120	ug/L		06/24/24 08:35	06/24/24 19:03	1
Benzo[a]pyrene	ND		0.100	0.0220	ug/L		06/24/24 08:35	06/24/24 19:03	1
Indeno[1,2,3-cd]pyrene	ND		0.0500	0.0140	ug/L		06/24/24 08:35	06/24/24 19:03	1

Method: 8270E SIM - Compuestos Orgánicos Semivolátiles (GCMS) (Continued)

Lab Sample ID: MB 580-463066/1-A
Matrix: Water
Analysis Batch: 463142

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 463066

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		0.100	0.0150	ug/L		06/24/24 08:35	06/24/24 19:03	1
Benzo[g,h,i]perylene	ND		0.0500	0.0120	ug/L		06/24/24 08:35	06/24/24 19:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*90*		*29 - 150*	*06/24/24 08:35*	*06/24/24 19:03*	*1*

Lab Sample ID: LCS 580-463066/2-A
Matrix: Water
Analysis Batch: 463142

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 463066

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	8.00	5.428		ug/L		68	34 - 120
2-Methylnaphthalene	8.00	6.040		ug/L		75	33 - 120
1-Methylnaphthalene	8.00	5.260		ug/L		66	29 - 120
Acenaphthylene	8.00	6.212		ug/L		78	38 - 120
Acenaphthene	8.00	5.622		ug/L		70	33 - 120
Fluorene	8.00	6.194		ug/L		77	39 - 120
Phenanthrene	8.00	5.975		ug/L		75	46 - 120
Anthracene	8.00	6.240		ug/L		78	41 - 120
Fluoranthene	8.00	6.784		ug/L		85	51 - 125
Pyrene	8.00	6.493		ug/L		81	51 - 125
Benzo[a]anthracene	8.00	7.071		ug/L		88	55 - 123
Chrysene	8.00	5.326		ug/L		67	47 - 120
Benzo[b]fluoranthene	8.00	6.624		ug/L		83	43 - 120
Benzo[k]fluoranthene	8.00	5.840		ug/L		73	41 - 121
Benzo[a]pyrene	8.00	6.580		ug/L		82	51 - 120
Indeno[1,2,3-cd]pyrene	8.00	7.659		ug/L		96	45 - 123
Dibenz(a,h)anthracene	8.00	7.181		ug/L		90	54 - 123
Benzo[g,h,i]perylene	8.00	6.708		ug/L		84	45 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*88*		*29 - 150*

Lab Sample ID: LCSD 580-463066/3-A
Matrix: Water
Analysis Batch: 463142

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 463066

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	8.00	5.018		ug/L		63	34 - 120	8	35
2-Methylnaphthalene	8.00	5.711		ug/L		71	33 - 120	6	35
1-Methylnaphthalene	8.00	4.947		ug/L		62	29 - 120	6	35
Acenaphthylene	8.00	5.850		ug/L		73	38 - 120	6	35
Acenaphthene	8.00	5.259		ug/L		66	33 - 120	7	35
Fluorene	8.00	5.810		ug/L		73	39 - 120	6	35
Phenanthrene	8.00	5.634		ug/L		70	46 - 120	6	32
Anthracene	8.00	5.905		ug/L		74	41 - 120	6	29
Fluoranthene	8.00	6.509		ug/L		81	51 - 125	4	31
Pyrene	8.00	6.249		ug/L		78	51 - 125	4	30

Method: 8270E SIM - Compuestos Orgánicos Semivolátiles (GCMS) (Continued)

Lab Sample ID: LCSD 580-463066/3-A
Matrix: Water
Analysis Batch: 463142

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 463066

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[a]anthracene			8.00	6.789		ug/L		85	55 - 123	4	31
Chrysene			8.00	5.141		ug/L		64	47 - 120	4	30
Benzo[b]fluoranthene			8.00	6.380		ug/L		80	43 - 120	4	35
Benzo[k]fluoranthene			8.00	5.618		ug/L		70	41 - 121	4	35
Benzo[a]pyrene			8.00	6.322		ug/L		79	51 - 120	4	31
Indeno[1,2,3-cd]pyrene			8.00	7.314		ug/L		91	45 - 123	5	35
Dibenz(a,h)anthracene			8.00	6.913		ug/L		86	54 - 123	4	35
Benzo[g,h,i]perylene			8.00	6.406		ug/L		80	45 - 120	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*84*		*29 - 150*

Lab Sample ID: 580-141388-B-3-A MS
Matrix: Water
Analysis Batch: 463142

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 463066

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthylene	0.758		8.68	6.849		ug/L		70	38 - 120
Fluorene	8.56		8.68	13.71		ug/L		59	39 - 120
Phenanthrene	0.306		8.68	6.087		ug/L		67	46 - 120
Anthracene	ND		8.68	6.141		ug/L		71	41 - 120
Fluoranthene	ND		8.68	6.602		ug/L		76	51 - 125
Pyrene	ND		8.68	6.536		ug/L		75	51 - 125
Benzo[a]anthracene	ND		8.68	7.550		ug/L		87	55 - 123
Chrysene	ND		8.68	5.227		ug/L		60	47 - 120
Benzo[b]fluoranthene	ND		8.68	6.342		ug/L		73	43 - 120
Benzo[k]fluoranthene	ND		8.68	5.842		ug/L		67	41 - 121
Benzo[a]pyrene	ND		8.68	6.781		ug/L		78	51 - 120
Indeno[1,2,3-cd]pyrene	ND		8.68	7.852		ug/L		90	45 - 123
Dibenz(a,h)anthracene	ND		8.68	7.282		ug/L		84	54 - 123
Benzo[g,h,i]perylene	ND		8.68	6.746		ug/L		78	45 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Terphenyl-d14	*81*		*29 - 150*

Lab Sample ID: 580-141388-B-3-B MSD
Matrix: Water
Analysis Batch: 463142

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 463066

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthylene	0.758		8.14	6.481		ug/L		70	38 - 120	6	35
Fluorene	8.56		8.14	14.00		ug/L		67	39 - 120	2	35
Phenanthrene	0.306		8.14	5.901		ug/L		69	46 - 120	3	32
Anthracene	ND		8.14	5.825		ug/L		72	41 - 120	5	29
Fluoranthene	ND		8.14	6.326		ug/L		78	51 - 125	4	31
Pyrene	ND		8.14	6.277		ug/L		77	51 - 125	4	30
Benzo[a]anthracene	ND		8.14	7.104		ug/L		87	55 - 123	6	31
Chrysene	ND		8.14	4.931		ug/L		61	47 - 120	6	30

Method: 8270E SIM - Compuestos Orgánicos Semivolátiles (GCMS) (Continued)

Lab Sample ID: 580-141388-B-3-B MSD
Matrix: Water
Analysis Batch: 463142

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 463066

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[b]fluoranthene	ND		8.14	6.431		ug/L		79	43 - 120	1	35
Benzo[k]fluoranthene	ND		8.14	5.119		ug/L		63	41 - 121	13	35
Benzo[a]pyrene	ND		8.14	6.359		ug/L		78	51 - 120	6	31
Indeno[1,2,3-cd]pyrene	ND		8.14	7.387		ug/L		91	45 - 123	6	35
Dibenz(a,h)anthracene	ND		8.14	6.885		ug/L		85	54 - 123	6	35
Benzo[g,h,i]perylene	ND		8.14	6.380		ug/L		78	45 - 120	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14	*82*		*29 - 150*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Lab Sample ID: MB 580-462777/1-C
Matrix: Water
Analysis Batch: 463726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 462777

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		200	91.0	ug/L		06/20/24 08:44	07/01/24 16:51	1
Motor Oil (>C24-C36)	ND		350	130	ug/L		06/20/24 08:44	07/01/24 16:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*50 - 150*	*06/20/24 08:44*	*07/01/24 16:51*	*1*

Lab Sample ID: LCS 580-462777/2-C
Matrix: Water
Analysis Batch: 463726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 462777

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (C10-C24)			4000	3375		ug/L		84	50 - 120		
Motor Oil (>C24-C36)			4000	3561		ug/L		89	64 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*100*		*50 - 150*

Lab Sample ID: LCSD 580-462777/3-C
Matrix: Water
Analysis Batch: 463726

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 462777

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (C10-C24)			4000	3413		ug/L		85	50 - 120	1	26
Motor Oil (>C24-C36)			4000	3561		ug/L		89	64 - 120	0	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*85*		*50 - 150*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup (Continued)

Lab Sample ID: MB 580-462778/1-B
Matrix: Water
Analysis Batch: 463726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 462778

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		200	91.0	ug/L		06/20/24 08:50	07/01/24 15:04	1
Motor Oil (>C24-C36)	ND		350	130	ug/L		06/20/24 08:50	07/01/24 15:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*50 - 150*	*06/20/24 08:50*	*07/01/24 15:04*	*1*

Lab Sample ID: LCS 580-462778/2-B
Matrix: Water
Analysis Batch: 463726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 462778

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (C10-C24)			4000	3165		ug/L		79	50 - 120		
Motor Oil (>C24-C36)			4000	3286		ug/L		82	64 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*78*		*50 - 150*

Lab Sample ID: LCSD 580-462778/3-B
Matrix: Water
Analysis Batch: 463726

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 462778

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (C10-C24)			4000	3396		ug/L		85	50 - 120	7	26
Motor Oil (>C24-C36)			4000	3534		ug/L		88	64 - 120	7	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*85*		*50 - 150*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Lab Sample ID: MB 580-462777/1-A
Matrix: Water
Analysis Batch: 462968

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 462777

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		200	91.0	ug/L		06/20/24 08:44	06/21/24 16:19	1
Motor Oil (>C24-C36)	ND		350	130	ug/L		06/20/24 08:44	06/21/24 16:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*50 - 150*	*06/20/24 08:44*	*06/21/24 16:19*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx (Continued)

Lab Sample ID: LCS 580-462777/2-A
Matrix: Water
Analysis Batch: 462968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 462777

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (C10-C24)			4000	3088		ug/L		77	50 - 120		
Motor Oil (>C24-C36)			4000	3110		ug/L		78	64 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*78*		*50 - 150*

Lab Sample ID: LCSD 580-462777/3-A
Matrix: Water
Analysis Batch: 462968

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 462777

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (C10-C24)			4000	3259		ug/L		81	50 - 120	5	26
Motor Oil (>C24-C36)			4000	3245		ug/L		81	64 - 120	4	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*80*		*50 - 150*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx - RA

Lab Sample ID: MB 580-462778/1-A
Matrix: Water
Analysis Batch: 463489

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 462778

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24) - RA	ND		200	91.0	ug/L		06/20/24 08:50	06/27/24 19:49	1
Motor Oil (>C24-C36) - RA	ND		350	130	ug/L		06/20/24 08:50	06/27/24 19:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl - RA	*65*		*50 - 150*	*06/20/24 08:50*	*06/27/24 19:49*	*1*

Lab Sample ID: LCS 580-462778/2-A
Matrix: Water
Analysis Batch: 463489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 462778

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (C10-C24) - RA			4000	3371		ug/L		84	50 - 120		
Motor Oil (>C24-C36) - RA			4000	3253		ug/L		81	64 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl - RA	*62*		*50 - 150*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx - RA (Continued)

Lab Sample ID: LCSD 580-462778/3-A
Matrix: Water
Analysis Batch: 463489

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 462778

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (C10-C24) - RA			4000	3363		ug/L		84	50 - 120	0	26
Motor Oil (>C24-C36) - RA			4000	3288		ug/L		82	64 - 120	1	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl - RA	*79*		*50 - 150*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-463143/10-A
Matrix: Water
Analysis Batch: 463282

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 463143

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.00	0.200	ug/L		06/24/24 16:51	06/25/24 10:50	5

Lab Sample ID: LCS 580-463143/11-A
Matrix: Water
Analysis Batch: 463282

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 463143

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Lead			1000	1022		ug/L		102	80 - 120		

Lab Sample ID: LCSD 580-463143/12-A
Matrix: Water
Analysis Batch: 463282

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 463143

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead			1000	1010		ug/L		101	80 - 120	1	20

Lab Sample ID: 580-141296-2 MS
Matrix: Water
Analysis Batch: 463282

Client Sample ID: MW-104
Prep Type: Total Recoverable
Prep Batch: 463143

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Lead	3.68		1000	1087		ug/L		108	80 - 120		

Lab Sample ID: 580-141296-2 MSD
Matrix: Water
Analysis Batch: 463282

Client Sample ID: MW-104
Prep Type: Total Recoverable
Prep Batch: 463143

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	3.68		1000	1077		ug/L		107	80 - 120	1	20

Lab Sample ID: 580-141296-2 DU
Matrix: Water
Analysis Batch: 463282

Client Sample ID: MW-104
Prep Type: Total Recoverable
Prep Batch: 463143

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	3.68		3.511		ug/L		5	20

Lab Chronicle

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-05
Lab Sample ID: 580-141296-1
Date Collected: 06/17/24 12:02
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	462865	AA	EET SEA	06/20/24 21:07
Total/NA	Analysis	NWTPH-Gx		1	462866	AA	EET SEA	06/20/24 21:07
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Analysis	NWTPH-Dx		1	462968	SW	EET SEA	06/21/24 19:51
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Cleanup	3630C			463768	SW	EET SEA	07/01/24 14:53
Total/NA	Analysis	NWTPH-Dx		1	463726	SW	EET SEA	07/01/24 17:55

Client Sample ID: MW-104
Lab Sample ID: 580-141296-2
Date Collected: 06/19/24 09:55
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NWTPH-Gx		1	463251	AA	EET SEA	06/26/24 06:02
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Analysis	NWTPH-Dx		1	462968	SW	EET SEA	06/21/24 20:12
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Cleanup	3630C			463768	SW	EET SEA	07/01/24 14:53
Total/NA	Analysis	NWTPH-Dx		1	463726	SW	EET SEA	07/01/24 18:16
Total Recoverable	Prep	3005A			463143	MCMS	EET SEA	06/24/24 16:51
Total Recoverable	Analysis	6020B		5	463282	FCW	EET SEA	06/25/24 10:57

Client Sample ID: MW-111
Lab Sample ID: 580-141296-3
Date Collected: 06/17/24 12:35
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	462865	AA	EET SEA	06/20/24 21:29
Total/NA	Analysis	NWTPH-Gx		1	462866	AA	EET SEA	06/20/24 21:29
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Analysis	NWTPH-Dx		1	462968	SW	EET SEA	06/21/24 20:33
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Cleanup	3630C			463768	SW	EET SEA	07/01/24 14:53
Total/NA	Analysis	NWTPH-Dx		1	463726	SW	EET SEA	07/01/24 18:37

Client Sample ID: MW-112A
Lab Sample ID: 580-141296-4
Date Collected: 06/18/24 08:58
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	463129	AA	EET SEA	06/24/24 22:22
Total/NA	Analysis	NWTPH-Gx		1	463130	AA	EET SEA	06/24/24 22:22
Total/NA	Prep	3510C	RA		462777	JW	EET SEA	06/20/24 08:44
Total/NA	Analysis	NWTPH-Dx	RA	1	463577	SW	EET SEA	06/28/24 12:34

Lab Chronicle

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-112A
Lab Sample ID: 580-141296-4
Date Collected: 06/18/24 08:58
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Cleanup	3630C			463768	SW	EET SEA	07/01/24 14:53
Total/NA	Analysis	NWTPH-Dx		1	463726	SW	EET SEA	07/01/24 18:58

Client Sample ID: MW-113
Lab Sample ID: 580-141296-5
Date Collected: 06/17/24 12:55
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	462865	AA	EET SEA	06/21/24 02:08
Total/NA	Analysis	NWTPH-Gx		1	462989	AA	EET SEA	06/21/24 22:17
Total/NA	Prep	3510C	RA		462777	JW	EET SEA	06/20/24 08:44
Total/NA	Analysis	NWTPH-Dx	RA	1	463577	SW	EET SEA	06/28/24 12:55
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Cleanup	3630C			463768	SW	EET SEA	07/01/24 14:53
Total/NA	Analysis	NWTPH-Dx		1	463726	SW	EET SEA	07/01/24 19:20

Client Sample ID: MW-114
Lab Sample ID: 580-141296-6
Date Collected: 06/17/24 12:30
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	462865	AA	EET SEA	06/20/24 21:51
Total/NA	Analysis	NWTPH-Gx		1	462866	AA	EET SEA	06/20/24 21:51
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Analysis	NWTPH-Dx		1	462968	SW	EET SEA	06/21/24 21:57
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Cleanup	3630C			463768	SW	EET SEA	07/01/24 14:53
Total/NA	Analysis	NWTPH-Dx		1	463726	SW	EET SEA	07/01/24 19:41

Client Sample ID: MW-115
Lab Sample ID: 580-141296-7
Date Collected: 06/17/24 11:58
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	462865	AA	EET SEA	06/20/24 23:16
Total/NA	Analysis	NWTPH-Gx		1	462866	AA	EET SEA	06/20/24 23:16
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Analysis	NWTPH-Dx		1	462968	SW	EET SEA	06/21/24 22:18
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Cleanup	3630C			463768	SW	EET SEA	07/01/24 14:53
Total/NA	Analysis	NWTPH-Dx		1	463726	SW	EET SEA	07/01/24 20:24

Lab Chronicle

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-202
Lab Sample ID: 580-141296-8
Date Collected: 06/18/24 12:04
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NWTPH-Gx		1	463130	AA	EET SEA	06/24/24 22:44
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Analysis	NWTPH-Dx		1	462968	SW	EET SEA	06/21/24 22:39
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Cleanup	3630C			463768	SW	EET SEA	07/01/24 14:53
Total/NA	Analysis	NWTPH-Dx		1	463726	SW	EET SEA	07/01/24 20:46

Client Sample ID: MW-203
Lab Sample ID: 580-141296-9
Date Collected: 06/18/24 11:48
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NWTPH-Gx		1	463130	AA	EET SEA	06/24/24 19:53
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Analysis	NWTPH-Dx		1	462968	SW	EET SEA	06/21/24 23:00
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Cleanup	3630C			463768	SW	EET SEA	07/01/24 14:53
Total/NA	Analysis	NWTPH-Dx		1	463726	SW	EET SEA	07/01/24 21:07

Client Sample ID: MW-213
Lab Sample ID: 580-141296-10
Date Collected: 06/19/24 09:54
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	463470	AA	EET SEA	06/27/24 22:06
Total/NA	Analysis	NWTPH-Gx		1	463466	AA	EET SEA	06/27/24 22:06
Total/NA	Prep	3510C			463066	JW	EET SEA	06/24/24 08:35
Total/NA	Analysis	8270E SIM		1	463142	CB	EET SEA	06/24/24 20:19
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Analysis	NWTPH-Dx		1	462968	SW	EET SEA	06/21/24 23:21
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Cleanup	3630C			463768	SW	EET SEA	07/01/24 14:53
Total/NA	Analysis	NWTPH-Dx		1	463726	SW	EET SEA	07/01/24 21:28

Client Sample ID: MW-214
Lab Sample ID: 580-141296-11
Date Collected: 06/19/24 09:23
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	463187	AA	EET SEA	06/25/24 17:43
Total/NA	Analysis	NWTPH-Gx		1	463466	AA	EET SEA	06/27/24 19:24
Total/NA	Prep	3510C			463066	JW	EET SEA	06/24/24 08:35
Total/NA	Analysis	8270E SIM		1	463142	CB	EET SEA	06/24/24 20:44
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Analysis	NWTPH-Dx		1	462968	SW	EET SEA	06/21/24 23:41

Lab Chronicle

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-301
Lab Sample ID: 580-141296-12
Date Collected: 06/18/24 10:31
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	463129	AA	EET SEA	06/24/24 20:14
Total/NA	Analysis	NWTPH-Gx		1	463130	AA	EET SEA	06/24/24 20:14

Client Sample ID: MW-302
Lab Sample ID: 580-141296-13
Date Collected: 06/18/24 09:48
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	463129	AA	EET SEA	06/24/24 20:35
Total/NA	Analysis	NWTPH-Gx		1	463130	AA	EET SEA	06/24/24 20:35

Client Sample ID: MW-303
Lab Sample ID: 580-141296-14
Date Collected: 06/18/24 10:35
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	463129	AA	EET SEA	06/24/24 20:57
Total/NA	Analysis	NWTPH-Gx		1	463130	AA	EET SEA	06/24/24 20:57

Client Sample ID: MW-304
Lab Sample ID: 580-141296-15
Date Collected: 06/18/24 09:55
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	463129	AA	EET SEA	06/24/24 21:18
Total/NA	Analysis	8260D	DL	10	463187	AA	EET SEA	06/25/24 19:15
Total/NA	Analysis	NWTPH-Gx		1	463130	AA	EET SEA	06/24/24 21:18

Client Sample ID: MW-307
Lab Sample ID: 580-141296-16
Date Collected: 06/19/24 07:56
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	463187	AA	EET SEA	06/25/24 18:52
Total/NA	Analysis	NWTPH-Gx		10	463183	AA	EET SEA	06/25/24 18:52
Total/NA	Prep	3510C	RA		462777	JW	EET SEA	06/20/24 08:44
Total/NA	Analysis	NWTPH-Dx	RA	1	463577	SW	EET SEA	06/28/24 13:16
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Cleanup	3630C			463768	SW	EET SEA	07/01/24 14:53
Total/NA	Analysis	NWTPH-Dx		1	463726	SW	EET SEA	07/01/24 21:49

Lab Chronicle

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-308
Lab Sample ID: 580-141296-17
Date Collected: 06/19/24 08:03
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	463187	AA	EET SEA	06/25/24 18:06
Total/NA	Analysis	NWTPH-Gx		1	463183	AA	EET SEA	06/25/24 18:06

Client Sample ID: MW-309
Lab Sample ID: 580-141296-18
Date Collected: 06/18/24 08:10
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	463129	AA	EET SEA	06/24/24 21:39
Total/NA	Analysis	NWTPH-Gx		1	463130	AA	EET SEA	06/24/24 21:39

Client Sample ID: MW-310
Lab Sample ID: 580-141296-19
Date Collected: 06/18/24 09:20
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	463470	AA	EET SEA	06/27/24 23:15
Total/NA	Analysis	NWTPH-Gx		1	463466	AA	EET SEA	06/27/24 23:15

Client Sample ID: MW-311
Lab Sample ID: 580-141296-20
Date Collected: 06/17/24 10:58
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	462865	AA	EET SEA	06/20/24 23:38
Total/NA	Analysis	NWTPH-Gx		1	462866	AA	EET SEA	06/20/24 23:38

Client Sample ID: MW-312
Lab Sample ID: 580-141296-21
Date Collected: 06/18/24 11:05
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	463128	AA	EET SEA	06/24/24 22:21
Total/NA	Analysis	NWTPH-Gx		1	463124	AA	EET SEA	06/24/24 22:21

Client Sample ID: MW-313
Lab Sample ID: 580-141296-22
Date Collected: 06/18/24 08:45
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	463128	AA	EET SEA	06/24/24 23:08
Total/NA	Analysis	NWTPH-Gx		1	463124	AA	EET SEA	06/24/24 23:08
Total/NA	Prep	3510C	RA		462777	JW	EET SEA	06/20/24 08:44
Total/NA	Analysis	NWTPH-Dx	RA	1	463577	SW	EET SEA	06/28/24 13:37

Lab Chronicle

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: MW-313
Lab Sample ID: 580-141296-22
Date Collected: 06/18/24 08:45
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Cleanup	3630C			463768	SW	EET SEA	07/01/24 14:53
Total/NA	Analysis	NWTPH-Dx		1	463726	SW	EET SEA	07/01/24 22:10

Client Sample ID: MW-314
Lab Sample ID: 580-141296-23
Date Collected: 06/19/24 08:50
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	463470	AA	EET SEA	06/27/24 21:20
Total/NA	Analysis	NWTPH-Gx		1	463466	AA	EET SEA	06/27/24 21:20
Total/NA	Prep	3510C	RA		462777	JW	EET SEA	06/20/24 08:44
Total/NA	Analysis	NWTPH-Dx	RA	1	463577	SW	EET SEA	06/28/24 13:58
Total/NA	Prep	3510C			462777	JW	EET SEA	06/20/24 08:44
Total/NA	Cleanup	3630C			463768	SW	EET SEA	07/01/24 14:53
Total/NA	Analysis	NWTPH-Dx		1	463726	SW	EET SEA	07/01/24 22:30

Client Sample ID: MW-315
Lab Sample ID: 580-141296-24
Date Collected: 06/19/24 09:18
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	463470	AA	EET SEA	06/27/24 21:43
Total/NA	Analysis	NWTPH-Gx		1	463466	AA	EET SEA	06/27/24 21:43
Total/NA	Prep	3510C	RA		462778	JW	EET SEA	06/20/24 08:50
Total/NA	Analysis	NWTPH-Dx	RA	1	463489	SW	EET SEA	06/27/24 20:50
Total/NA	Prep	3510C			462778	JW	EET SEA	06/20/24 08:50
Total/NA	Cleanup	3630C			463716	SW	EET SEA	07/01/24 11:25
Total/NA	Analysis	NWTPH-Dx		1	463726	SW	EET SEA	07/01/24 16:08

Client Sample ID: TX-03A
Lab Sample ID: 580-141296-25
Date Collected: 06/19/24 08:42
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	463470	AA	EET SEA	06/27/24 23:38
Total/NA	Analysis	NWTPH-Gx		10	463466	AA	EET SEA	06/27/24 23:38

Client Sample ID: SH-04
Lab Sample ID: 580-141296-26
Date Collected: 06/18/24 08:12
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	463128	AA	EET SEA	06/24/24 22:44
Total/NA	Analysis	NWTPH-Gx		1	463124	AA	EET SEA	06/24/24 22:44

Lab Chronicle

Client: GHD Services Inc.
Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Client Sample ID: SH-04
Lab Sample ID: 580-141296-26
Date Collected: 06/18/24 08:12
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C	RA		462778	JW	EET SEA	06/20/24 08:50
Total/NA	Analysis	NWTPH-Dx	RA	1	463489	SW	EET SEA	06/27/24 21:11
Total/NA	Prep	3510C			462778	JW	EET SEA	06/20/24 08:50
Total/NA	Cleanup	3630C			463716	SW	EET SEA	07/01/24 11:25
Total/NA	Analysis	NWTPH-Dx		1	463726	SW	EET SEA	07/01/24 16:30

Client Sample ID: TB-1
Lab Sample ID: 580-141296-27
Date Collected: 06/19/24 09:00
Matrix: Water
Date Received: 06/19/24 12:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	463470	AA	EET SEA	06/27/24 17:06
Total/NA	Analysis	NWTPH-Gx		1	463466	AA	EET SEA	06/27/24 17:06

Laboratory References:

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: GHD Services Inc. Job ID: 580-141296-1
Project/Site: Shell - 2555 13th Avenue 12631170

Laboratory: Eurofins Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4167	07-07-24
Washington	State	C788	07-13-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270E SIM	3510C	Water	Acenaphthene
8270E SIM	3510C	Water	Acenaphthylene

Sample Summary

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue 12631170

Job ID: 580-141296-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-141296-1	MW-05	Water	06/17/24 12:02	06/19/24 12:29
580-141296-2	MW-104	Water	06/19/24 09:55	06/19/24 12:29
580-141296-3	MW-111	Water	06/17/24 12:35	06/19/24 12:29
580-141296-4	MW-112A	Water	06/18/24 08:58	06/19/24 12:29
580-141296-5	MW-113	Water	06/17/24 12:55	06/19/24 12:29
580-141296-6	MW-114	Water	06/17/24 12:30	06/19/24 12:29
580-141296-7	MW-115	Water	06/17/24 11:58	06/19/24 12:29
580-141296-8	MW-202	Water	06/18/24 12:04	06/19/24 12:29
580-141296-9	MW-203	Water	06/18/24 11:48	06/19/24 12:29
580-141296-10	MW-213	Water	06/19/24 09:54	06/19/24 12:29
580-141296-11	MW-214	Water	06/19/24 09:23	06/19/24 12:29
580-141296-12	MW-301	Water	06/18/24 10:31	06/19/24 12:29
580-141296-13	MW-302	Water	06/18/24 09:48	06/19/24 12:29
580-141296-14	MW-303	Water	06/18/24 10:35	06/19/24 12:29
580-141296-15	MW-304	Water	06/18/24 09:55	06/19/24 12:29
580-141296-16	MW-307	Water	06/19/24 07:56	06/19/24 12:29
580-141296-17	MW-308	Water	06/19/24 08:03	06/19/24 12:29
580-141296-18	MW-309	Water	06/18/24 08:10	06/19/24 12:29
580-141296-19	MW-310	Water	06/18/24 09:20	06/19/24 12:29
580-141296-20	MW-311	Water	06/17/24 10:58	06/19/24 12:29
580-141296-21	MW-312	Water	06/18/24 11:05	06/19/24 12:29
580-141296-22	MW-313	Water	06/18/24 08:45	06/19/24 12:29
580-141296-23	MW-314	Water	06/19/24 08:50	06/19/24 12:29
580-141296-24	MW-315	Water	06/19/24 09:18	06/19/24 12:29
580-141296-25	TX-03A	Water	06/19/24 08:42	06/19/24 12:29
580-141296-26	SH-04	Water	06/18/24 08:12	06/19/24 12:29
580-141296-27	TB-1	Water	06/19/24 09:00	06/19/24 12:29

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)

- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:

☐ SGW FDG	☐ PIPELINE	☐ RETAIL
☐ CHEMICALS	☐ CONSULTANT	☐ LUBES
☐ TRANSPORTATION	☐ OTHER _____	

Print Bill To Contact Name:	PlaNet Site or Project ID	☐ CHECK IF NO INCIDENT # APPLIES
		DATE: 6/19/24
PO #	GSAP Project ID	PAGE: 1 of 3

SAMPLING COMPANY:	LOG CODE:
Blaine Tech Services, Inc	BTSS

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway

TELEPHONE: (425) 327-4585 | FAX: | Bill To Contact E-MAIL: emily.blakeway@ghd.com

SITE ADDRESS: Street and City	State	GHD Project / Task Number:
2555 13th Avenue	WA	12631170

EDF DELIVERABLE TO (Name, Company, Office Location):	PHONE NO.:	E-MAIL:	GHD Other ID
Emily Blakeway, GHD, WA	(425) 327-4585	emily.blakeway@ghd.com	

SAMPLER NAME(S) (Print): Diana Ojeda, Aimee Rike, Lydia Johnson

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED
- ☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	UNIT COST: 8260C BTEX	NWTPH-Dx	NON-UNIT COST: NWTPH-Gx	Total Lead	PAH	Container PID Readings or Laboratory Notes
	MW-05	6/17	1202	GW	X					6	X	X	X			
	MW-104	6/19	0955		X	X				7		X	X	X		
	MW-111	6/19	1235		X					6	X	X	X			
	MW-112A	6/18	0858		X					6	X	X	X			
	MW-113	6/17	1255		X					6	X	X	X			
	MW-114	6/17	1230		X					6	X	X	X			
	MW-115	6/17	1158		X					6	X	X	X			
	MW-202	6/18	1204		X					6		X	X			
	MW-203	6/18	1148		X					6		X	X			
	MW-213	6/19	0954		X			X		8	X	X	X		X	

580-141296 Chain of Custody

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Diana Ojeda	Maine FEDEX	6/19/24	1229
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:

☐ SGW FDG	☐ PIPELINE	☐ RETAIL
☐ CHEMICALS	☐ CONSULTANT	☐ LUBES
☐ TRANSPORTATION	☐ OTHER _____	

Print Bill To Contact Name:

PlaNet Site or Project ID

PO #

GSAP Project ID

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 6/19/24

PAGE: 2 of 3

SAMPLING COMPANY: Blaine Tech Services, Inc

LOG CODE: BTSS

SITE ADDRESS: Street and City: 2555 13th Avenue

State: WA

GHD Project / Task Number: 12631170

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

EDF DELIVERABLE TO (Name, Company, Office Location): Emily Blakeway, GHD, WA

PHONE NO.: (425) 327-4585

E-MAIL: emily.blakeway@ghd.com

GHD Other ID

PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway

TELEPHONE: (425) 327-4585

FAX:

Bill To Contact E-MAIL: emily.blakeway@ghd.com

SAMPLER NAME(S) (Print): Diana Ojeda, Aimee Rike, Lydia Johnson

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☐ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

UNIT COST: 8260C BTEX; NWTPH-Dx

NON-UNIT COST: NWTPH-Gx; Total Lead; PAH

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	8260C BTEX	NWTPH-Dx	NWTPH-Gx	Total Lead	PAH
	MW-214	6/19	0923	GW	X			X		8	X	X	X		X
	MW-301	6/18	1031		X					4	X		X		
	MW-302	6/18	0948		X					4	X		X		
	MW-303	6/18	1035		X					4	X		X		
	MW-304	6/18	0955		X					4	X		X		
	MW-307	6/19	0756		X					6	X	X	X		
	MW-308	6/19	0803		X					4	X		X		
	MW-309	6/18	0810		X					4	X		X		
	MW-310	6/18	0920		X					4	X		X		
	MW-311	6/17	1058		X					4	X		X		

Relinquished by: (Signature)	Received by: (Signature)	Date: 6/19/24	Time: 1229
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)

- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:

☐ SGW FDG	☐ PIPELINE	☐ RETAIL
☐ CHEMICALS	☐ CONSULTANT	☐ LUBES
☐ TRANSPORTATION	☐ OTHER _____	

Print Bill To Contact Name:	PlaNet Site or Project ID
PO #	**GSAP Project ID**

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 6/19/24

PAGE: 3 of 3

SAMPLING COMPANY: Blaine Tech Services, Inc

LOG CODE: BTSS

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway

TELEPHONE: (425) 327-4585

FAX:

Bill To Contact E-MAIL: emily.blakeway@ghd.com

SITE ADDRESS: Street and City: 2555 13th Avenue

State: WA

GHD Project / Task Number: 12631170

EDF DELIVERABLE TO (Name, Company, Office Location): Emily Blakeway, GHD, WA

PHONE NO.: (425) 327-4585

E-MAIL: emily.blakeway@ghd.com

GHD Other ID

SAMPLER NAME(S) (Print): Diana Ojeda, Aimee Kilke, Lydia Johnson

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED
- ☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	UNIT COST: 8260C BTEX	NWTPH-Dx	NON-UNIT COST: NWTPH-Gx	Total Lead	PAH	Container PID Readings or Laboratory Notes
	MW-312	6/18	1105	GW	X					4	X		X			
	MW-313	6/18	0845		X					6	X	X	X			
	MW-314	6/19	0850		X					6	X	X	X			
	MW-315	6/19	0918		X					6	X	X	X			
	TX-03A	6/19	0842		X					4	X		X			
	SH-04	6/18	0812		X					6	X	X	X			
	TB-1	6/19	0900	↓	X					2	X		X			

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Diana Ojeda	FEDEX	6/19/24	1229
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

Therm. ID: 11 Cor: 4.3 ° Unc: 3.8 °
Cooler Dsc: CB FedEx:
Packing: NONE UPS:
Cust. Seal: Yes ___ No X Lab Cour:
Blue Ice, (Wet) Dry, None Other: C.D.

#1

Therm. ID: 11 Cor: 4.0 ° Unc: 3.5 °
Cooler Dsc: CB FedEx:
Packing: NONE UPS:
Cust. Seal: Yes ___ No X Lab Cour:
Blue Ice, (Wet) Dry, None Other: C.D.

#2

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 580-141296-1

Login Number: 141296
List Number: 1
Creator: Prigge, Madison

List Source: Eurofins Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Emily Blakeway
GHD Services Inc.
9725 3rd Avenue NE, Suite 204
Seattle, Washington 98115

Generated 10/9/2024 11:30:35 AM Revision 1

JOB DESCRIPTION

Shell - Washington- 2555 13th Avenue, WA

JOB NUMBER

580-144101-1

Eurofins Seattle
5755 8th Street East
Tacoma WA 98424

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization



Generated
10/9/2024 11:30:35 AM
Revision 1

Authorized for release by
Pauline Matlock, Project Manager
Pauline.Matlock@et.eurofinsus.com
(253)922-2310

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Job Narrative
580-144101-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Revision
The report being provided is a revision of the original report sent on 10/4/2024. The report (revision 1) is being revised due to: NWTPH_Dx units need to be changed to mg/L.

Receipt
The samples were received on 9/23/2024 10:42 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C.

Gasoline Range Organics
Method NWTPH_Gx_MS: The following samples were diluted due to the abundance of non-target analytes: MW-302 (580-144101-2), MW-303 (580-144101-3), MW-304 (580-144101-4) and TX-03A (580-144101-12). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS VOA
Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-302 (580-144101-2), MW-303 (580-144101-3), MW-304 (580-144101-4) and TX-03A (580-144101-12). Elevated reporting limits (RLs) are provided.

Method 8260D: The method blank for analytical batch 580-473159 contained Benzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Hydrocarbons
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Definitions/Glossary

Client: GHD Services Inc. Job ID: 580-144101-1
Project/Site: Shell - Washington- 2555 13th Avenue, WA

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: GHD Services Inc.
Job ID: 580-144101-1
Project/Site: Shell - Washington- 2555 13th Avenue, WA

Client Sample ID: MW-301
Lab Sample ID: 580-144101-1
Date Collected: 09/18/24 11:00
Matrix: Water
Date Received: 09/23/24 10:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0371	B	0.00100	0.000240	mg/L			09/30/24 17:50	1
Toluene	0.00514		0.00100	0.000390	mg/L			09/30/24 17:50	1
Ethylbenzene	0.000608	J	0.00100	0.000500	mg/L			09/30/24 17:50	1
Xylenes, Total	0.00710		0.00200	0.000530	mg/L			09/30/24 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/30/24 17:50*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/30/24 17:50*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*09/30/24 17:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*09/30/24 17:50*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1.15		0.150	0.0730	mg/L			09/30/24 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*77 - 123*		*09/30/24 17:50*	*1*

Client: GHD Services Inc.
Job ID: 580-144101-1
Project/Site: Shell - Washington- 2555 13th Avenue, WA

Client Sample ID: MW-302
Lab Sample ID: 580-144101-2
Date Collected: 09/19/24 11:20
Matrix: Water
Date Received: 09/23/24 10:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.112**		0.0100	0.00240	mg/L			09/24/24 23:48	10
Toluene	**0.00532**	**J**	0.0100	0.00390	mg/L			09/24/24 23:48	10
Ethylbenzene	ND		0.0100	0.00500	mg/L			09/24/24 23:48	10
Xylenes, Total	**0.00688**	**J**	0.0200	0.00530	mg/L			09/24/24 23:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/24/24 23:48*	*10*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*09/24/24 23:48*	*10*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*09/24/24 23:48*	*10*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*09/24/24 23:48*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**1.20**	**J**	1.50	0.730	mg/L			09/24/24 23:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*77 - 123*		*09/24/24 23:48*	*10*

Client: GHD Services Inc.
Job ID: 580-144101-1
Project/Site: Shell - Washington- 2555 13th Avenue, WA

Client Sample ID: MW-303
Lab Sample ID: 580-144101-3
Date Collected: 09/18/24 11:20
Matrix: Water
Date Received: 09/23/24 10:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.305		0.0100	0.00240	mg/L			09/25/24 00:11	10
Toluene	0.00821	J	0.0100	0.00390	mg/L			09/25/24 00:11	10
Ethylbenzene	0.101		0.0100	0.00500	mg/L			09/25/24 00:11	10
Xylenes, Total	0.0147	J	0.0200	0.00530	mg/L			09/25/24 00:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/25/24 00:11*	*10*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*09/25/24 00:11*	*10*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*09/25/24 00:11*	*10*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*09/25/24 00:11*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2.91		1.50	0.730	mg/L			09/25/24 00:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*77 - 123*		*09/25/24 00:11*	*10*

Client: GHD Services Inc.
Job ID: 580-144101-1
Project/Site: Shell - Washington- 2555 13th Avenue, WA

Client Sample ID: MW-304
Lab Sample ID: 580-144101-4
Date Collected: 09/18/24 11:48
Matrix: Water
Date Received: 09/23/24 10:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.290**		0.0100	0.00240	mg/L			09/24/24 21:53	10
Toluene	**0.0119**		0.0100	0.00390	mg/L			09/24/24 21:53	10
Ethylbenzene	ND		0.0100	0.00500	mg/L			09/24/24 21:53	10
Xylenes, Total	**0.0347**		0.0200	0.00530	mg/L			09/24/24 21:53	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/24/24 21:53*	*10*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*09/24/24 21:53*	*10*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*09/24/24 21:53*	*10*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*09/24/24 21:53*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**1.82**		1.50	0.730	mg/L			09/24/24 21:53	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*77 - 123*		*09/24/24 21:53*	*10*

Client: GHD Services Inc. Job ID: 580-144101-1
Project/Site: Shell - Washington- 2555 13th Avenue, WA

Client Sample ID: MW-307 **Lab Sample ID: 580-144101-5**
Date Collected: 09/18/24 10:25 **Matrix: Water**
Date Received: 09/23/24 10:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0440		0.00100	0.000240	mg/L			09/25/24 23:24	1
Toluene	0.0124		0.00100	0.000390	mg/L			09/25/24 23:24	1
Ethylbenzene	0.0284		0.00100	0.000500	mg/L			09/25/24 23:24	1
Xylenes, Total	0.0356		0.00200	0.000530	mg/L			09/25/24 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/25/24 23:24*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/25/24 23:24*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*09/25/24 23:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*09/25/24 23:24*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2.37		0.150	0.0730	mg/L			09/25/24 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*77 - 123*		*09/25/24 23:24*	*1*

Client: GHD Services Inc.
Job ID: 580-144101-1
Project/Site: Shell - Washington- 2555 13th Avenue, WA

Client Sample ID: MW-308
Lab Sample ID: 580-144101-6
Date Collected: 09/18/24 10:00
Matrix: Water
Date Received: 09/23/24 10:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00192**		0.00100	0.000240	mg/L			09/25/24 19:32	1
Toluene	**0.00107**		0.00100	0.000390	mg/L			09/25/24 19:32	1
Ethylbenzene	ND		0.00100	0.000500	mg/L			09/25/24 19:32	1
Xylenes, Total	**0.000598**	**J**	0.00200	0.000530	mg/L			09/25/24 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/25/24 19:32*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/25/24 19:32*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*09/25/24 19:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*09/25/24 19:32*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**0.482**		0.150	0.0730	mg/L			09/25/24 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*77 - 123*		*09/25/24 19:32*	*1*

Client: GHD Services Inc.
Job ID: 580-144101-1
Project/Site: Shell - Washington- 2555 13th Avenue, WA

Client Sample ID: MW-310
Lab Sample ID: 580-144101-7
Date Collected: 09/18/24 12:10
Matrix: Water
Date Received: 09/23/24 10:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0228		0.00100	0.000240	mg/L			09/25/24 19:55	1
Toluene	0.00366		0.00100	0.000390	mg/L			09/25/24 19:55	1
Ethylbenzene	0.000534	J	0.00100	0.000500	mg/L			09/25/24 19:55	1
Xylenes, Total	0.00796		0.00200	0.000530	mg/L			09/25/24 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/25/24 19:55*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*09/25/24 19:55*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*09/25/24 19:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/25/24 19:55*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1.21		0.150	0.0730	mg/L			09/25/24 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*77 - 123*		*09/25/24 19:55*	*1*

Client: GHD Services Inc. Job ID: 580-144101-1
Project/Site: Shell - Washington- 2555 13th Avenue, WA

Client Sample ID: MW-311 **Lab Sample ID: 580-144101-8**
Date Collected: 09/19/24 08:00 **Matrix: Water**
Date Received: 09/23/24 10:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00126		0.00100	0.000240	mg/L			09/25/24 20:18	1
Toluene	0.00256		0.00100	0.000390	mg/L			09/25/24 20:18	1
Ethylbenzene	0.000584	J	0.00100	0.000500	mg/L			09/25/24 20:18	1
Xylenes, Total	0.000930	J	0.00200	0.000530	mg/L			09/25/24 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/25/24 20:18*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/25/24 20:18*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*09/25/24 20:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*09/25/24 20:18*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2.80		0.150	0.0730	mg/L			09/25/24 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*77 - 123*		*09/25/24 20:18*	*1*

Client: GHD Services Inc. Job ID: 580-144101-1
Project/Site: Shell - Washington- 2555 13th Avenue, WA

Client Sample ID: MW-312 **Lab Sample ID: 580-144101-9**
Date Collected: 09/19/24 09:30 **Matrix: Water**
Date Received: 09/23/24 10:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00716		0.00100	0.000240	mg/L			09/25/24 20:42	1
Toluene	0.00241		0.00100	0.000390	mg/L			09/25/24 20:42	1
Ethylbenzene	0.00114		0.00100	0.000500	mg/L			09/25/24 20:42	1
Xylenes, Total	0.00208		0.00200	0.000530	mg/L			09/25/24 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/25/24 20:42*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/25/24 20:42*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*09/25/24 20:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*09/25/24 20:42*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2.98		0.150	0.0730	mg/L			09/25/24 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*77 - 123*		*09/25/24 20:42*	*1*

Client Sample ID: MW-313 Lab Sample ID: 580-144101-10

Date Collected: 09/19/24 08:25 **Matrix: Water**
Date Received: 09/23/24 10:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00100	0.000240	mg/L			09/24/24 20:43	1
Toluene	ND		0.00100	0.000390	mg/L			09/24/24 20:43	1
Ethylbenzene	ND		0.00100	0.000500	mg/L			09/24/24 20:43	1
Xylenes, Total	ND		0.00200	0.000530	mg/L			09/24/24 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/24/24 20:43*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/24/24 20:43*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*09/24/24 20:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*09/24/24 20:43*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		0.150	0.0730	mg/L			09/24/24 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*77 - 123*		*09/24/24 20:43*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**0.125**	**J**	0.197	0.0898	mg/L		09/25/24 08:31	09/29/24 01:12	1
Motor Oil (>C24-C36)	**0.186**	**J**	0.346	0.128	mg/L		09/25/24 08:31	09/29/24 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*09/25/24 08:31*	*09/29/24 01:12*	*1*

Client: GHD Services Inc.
Job ID: 580-144101-1
Project/Site: Shell - Washington- 2555 13th Avenue, WA

Client Sample ID: MW-315
Lab Sample ID: 580-144101-11
Date Collected: 09/19/24 08:55
Matrix: Water
Date Received: 09/23/24 10:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0118		0.00100	0.000240	mg/L			09/25/24 21:05	1
Toluene	0.00316		0.00100	0.000390	mg/L			09/25/24 21:05	1
Ethylbenzene	0.000502	J	0.00100	0.000500	mg/L			09/25/24 21:05	1
Xylenes, Total	0.00289		0.00200	0.000530	mg/L			09/25/24 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/25/24 21:05*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/25/24 21:05*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*09/25/24 21:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*09/25/24 21:05*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	3.51		0.150	0.0730	mg/L			09/25/24 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*77 - 123*		*09/25/24 21:05*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	4.05		0.195	0.0887	mg/L		09/25/24 08:31	09/29/24 01:32	1
Motor Oil (>C24-C36)	0.377		0.341	0.127	mg/L		09/25/24 08:31	09/29/24 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*09/25/24 08:31*	*09/29/24 01:32*	*1*

Client: GHD Services Inc.
Job ID: 580-144101-1
Project/Site: Shell - Washington- 2555 13th Avenue, WA

Client Sample ID: TX-03A
Lab Sample ID: 580-144101-12
Date Collected: 09/19/24 10:45
Matrix: Water
Date Received: 09/23/24 10:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.213		0.0100	0.00240	mg/L			09/24/24 23:25	10
Toluene	0.0122		0.0100	0.00390	mg/L			09/24/24 23:25	10
Ethylbenzene	ND		0.0100	0.00500	mg/L			09/24/24 23:25	10
Xylenes, Total	0.0147	J	0.0200	0.00530	mg/L			09/24/24 23:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/24/24 23:25*	*10*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*09/24/24 23:25*	*10*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*09/24/24 23:25*	*10*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*09/24/24 23:25*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2.42		1.50	0.730	mg/L			09/24/24 23:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*77 - 123*		*09/24/24 23:25*	*10*

Client: GHD Services Inc.
Job ID: 580-144101-1
Project/Site: Shell - Washington- 2555 13th Avenue, WA

Client Sample ID: TB-1
Lab Sample ID: 580-144101-13
Date Collected: 09/19/24 09:00
Matrix: Water
Date Received: 09/23/24 10:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00100	0.000240	mg/L			09/24/24 19:34	1
Toluene	ND		0.00100	0.000390	mg/L			09/24/24 19:34	1
Ethylbenzene	ND		0.00100	0.000500	mg/L			09/24/24 19:34	1
Xylenes, Total	ND		0.00200	0.000530	mg/L			09/24/24 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/24/24 19:34*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*09/24/24 19:34*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*09/24/24 19:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*09/24/24 19:34*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		0.150	0.0730	mg/L			09/24/24 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*77 - 123*		*09/24/24 19:34*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-472492/11
Matrix: Water
Analysis Batch: 472492

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00100	0.000240	mg/L			09/24/24 19:11	1
Toluene	ND		0.00100	0.000390	mg/L			09/24/24 19:11	1
Ethylbenzene	ND		0.00100	0.000500	mg/L			09/24/24 19:11	1
Xylenes, Total	ND		0.00200	0.000530	mg/L			09/24/24 19:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/24/24 19:11*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*09/24/24 19:11*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*09/24/24 19:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/24/24 19:11*	*1*

Lab Sample ID: LCS 580-472492/6
Matrix: Water
Analysis Batch: 472492

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.00500	0.004913		mg/L		98	80 - 122		
Toluene			0.00500	0.004897		mg/L		98	80 - 120		
Ethylbenzene			0.00500	0.005067		mg/L		101	80 - 120		
Xylenes, Total			0.0100	0.01071		mg/L		107	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 580-472492/7
Matrix: Water
Analysis Batch: 472492

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.00500	0.005044		mg/L		101	80 - 122	3	14
Toluene			0.00500	0.004935		mg/L		99	80 - 120	1	13
Ethylbenzene			0.00500	0.005146		mg/L		103	80 - 120	2	14
Xylenes, Total			0.0100	0.01020		mg/L		102	80 - 120	5	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-472679/11
Matrix: Water
Analysis Batch: 472679

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00100	0.000240	mg/L			09/25/24 16:49	1
Toluene	ND		0.00100	0.000390	mg/L			09/25/24 16:49	1
Ethylbenzene	ND		0.00100	0.000500	mg/L			09/25/24 16:49	1
Xylenes, Total	ND		0.00200	0.000530	mg/L			09/25/24 16:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/25/24 16:49*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*09/25/24 16:49*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*09/25/24 16:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*09/25/24 16:49*	*1*

Lab Sample ID: LCS 580-472679/6
Matrix: Water
Analysis Batch: 472679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.00500	0.004772		mg/L		95	80 - 122		
Toluene			0.00500	0.005439		mg/L		109	80 - 120		
Ethylbenzene			0.00500	0.005106		mg/L		102	80 - 120		
Xylenes, Total			0.0100	0.01077		mg/L		108	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*

Lab Sample ID: LCSD 580-472679/7
Matrix: Water
Analysis Batch: 472679

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.00500	0.004847		mg/L		97	80 - 122	2	14
Toluene			0.00500	0.005372		mg/L		107	80 - 120	1	13
Ethylbenzene			0.00500	0.005092		mg/L		102	80 - 120	0	14
Xylenes, Total			0.0100	0.01079		mg/L		108	80 - 120	0	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-473159/11
Matrix: Water
Analysis Batch: 473159

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0002922	J	0.00100	0.000240	mg/L			09/30/24 16:40	1
Toluene	ND		0.00100	0.000390	mg/L			09/30/24 16:40	1
Ethylbenzene	ND		0.00100	0.000500	mg/L			09/30/24 16:40	1
Xylenes, Total	ND		0.00200	0.000530	mg/L			09/30/24 16:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/30/24 16:40*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/30/24 16:40*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*09/30/24 16:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*09/30/24 16:40*	*1*

Lab Sample ID: LCS 580-473159/6
Matrix: Water
Analysis Batch: 473159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.00500	0.005412		mg/L		108	80 - 122		
Toluene			0.00500	0.005165		mg/L		103	80 - 120		
Ethylbenzene			0.00500	0.005388		mg/L		108	80 - 120		
Xylenes, Total			0.0100	0.01057		mg/L		106	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 580-473159/7
Matrix: Water
Analysis Batch: 473159

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.00500	0.005363		mg/L		107	80 - 122	1	14
Toluene			0.00500	0.005105		mg/L		102	80 - 120	1	13
Ethylbenzene			0.00500	0.005289		mg/L		106	80 - 120	2	14
Xylenes, Total			0.0100	0.01042		mg/L		104	80 - 120	1	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 580-472488/11
Matrix: Water
Analysis Batch: 472488

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		0.150	0.0730	mg/L			09/24/24 19:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*77 - 123*		*09/24/24 19:11*	*1*

Lab Sample ID: LCS 580-472488/8
Matrix: Water
Analysis Batch: 472488

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Gasoline			0.999	0.9568		mg/L		96	55 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*77 - 123*

Lab Sample ID: LCSD 580-472488/9
Matrix: Water
Analysis Batch: 472488

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline			0.999	0.9339		mg/L		93	55 - 148	2	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*77 - 123*

Lab Sample ID: MB 580-472674/11
Matrix: Water
Analysis Batch: 472674

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		0.150	0.0730	mg/L			09/25/24 16:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*77 - 123*		*09/25/24 16:49*	*1*

Lab Sample ID: LCS 580-472674/8
Matrix: Water
Analysis Batch: 472674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Gasoline			0.999	1.088		mg/L		109	55 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*77 - 123*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCSD 580-472674/9
Matrix: Water
Analysis Batch: 472674

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline			0.999	1.134		mg/L		114	55 - 148	4	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*77 - 123*

Lab Sample ID: MB 580-473154/11
Matrix: Water
Analysis Batch: 473154

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		0.150	0.0730	mg/L			09/30/24 16:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*77 - 123*		*09/30/24 16:40*	*1*

Lab Sample ID: LCS 580-473154/8
Matrix: Water
Analysis Batch: 473154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Gasoline			0.999	1.045		mg/L		105	55 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*77 - 123*

Lab Sample ID: LCSD 580-473154/9
Matrix: Water
Analysis Batch: 473154

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline			0.999	1.009		mg/L		101	55 - 148	4	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*77 - 123*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Lab Sample ID: MB 580-472618/1-A
Matrix: Water
Analysis Batch: 473072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 472618

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		0.200	0.0910	mg/L		09/25/24 08:31	09/28/24 18:50	1
Motor Oil (>C24-C36)	ND		0.350	0.130	mg/L		09/25/24 08:31	09/28/24 18:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99*		*50 - 150*	*09/25/24 08:31*	*09/28/24 18:50*	*1*

Client: GHD Services Inc.
Job ID: 580-144101-1
Project/Site: Shell - Washington- 2555 13th Avenue, WA

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx (Continued)

Lab Sample ID: LCS 580-472618/2-A
Matrix: Water
Analysis Batch: 473072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 472618

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (C10-C24)			4.00	3.436		mg/L		86	50 - 120		
Motor Oil (>C24-C36)			4.00	3.816		mg/L		95	64 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*80*		*50 - 150*

Lab Chronicle

Client: GHD Services Inc. Job ID: 580-144101-1
Project/Site: Shell - Washington- 2555 13th Avenue, WA

Client Sample ID: MW-301 — Lab Sample ID: 580-144101-1
Date Collected: 09/18/24 11:00 — **Matrix: Water**
Date Received: 09/23/24 10:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	473159	AA	EET SEA	09/30/24 17:50
Total/NA	Analysis	NWTPH-Gx		1	473154	JBT	EET SEA	09/30/24 17:50

Client Sample ID: MW-302 — Lab Sample ID: 580-144101-2
Date Collected: 09/19/24 11:20 — **Matrix: Water**
Date Received: 09/23/24 10:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	472492	AA	EET SEA	09/24/24 23:48
Total/NA	Analysis	NWTPH-Gx		10	472488	AA	EET SEA	09/24/24 23:48

Client Sample ID: MW-303 — Lab Sample ID: 580-144101-3
Date Collected: 09/18/24 11:20 — **Matrix: Water**
Date Received: 09/23/24 10:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	472492	AA	EET SEA	09/25/24 00:11
Total/NA	Analysis	NWTPH-Gx		10	472488	AA	EET SEA	09/25/24 00:11

Client Sample ID: MW-304 — Lab Sample ID: 580-144101-4
Date Collected: 09/18/24 11:48 — **Matrix: Water**
Date Received: 09/23/24 10:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	472492	AA	EET SEA	09/24/24 21:53
Total/NA	Analysis	NWTPH-Gx		10	472488	AA	EET SEA	09/24/24 21:53

Client Sample ID: MW-307 — Lab Sample ID: 580-144101-5
Date Collected: 09/18/24 10:25 — **Matrix: Water**
Date Received: 09/23/24 10:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	472679	JBT	EET SEA	09/25/24 23:24
Total/NA	Analysis	NWTPH-Gx		1	472674	JBT	EET SEA	09/25/24 23:24

Client Sample ID: MW-308 — Lab Sample ID: 580-144101-6
Date Collected: 09/18/24 10:00 — **Matrix: Water**
Date Received: 09/23/24 10:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	472679	JBT	EET SEA	09/25/24 19:32
Total/NA	Analysis	NWTPH-Gx		1	472674	JBT	EET SEA	09/25/24 19:32

Lab Chronicle

Client: GHD Services Inc. Job ID: 580-144101-1
Project/Site: Shell - Washington- 2555 13th Avenue, WA

Client Sample ID: MW-310
Date Collected: 09/18/24 12:10
Date Received: 09/23/24 10:42

Lab Sample ID: 580-144101-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	472679	JBT	EET SEA	09/25/24 19:55
Total/NA	Analysis	NWTPH-Gx		1	472674	JBT	EET SEA	09/25/24 19:55

Client Sample ID: MW-311
Date Collected: 09/19/24 08:00
Date Received: 09/23/24 10:42

Lab Sample ID: 580-144101-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	472679	JBT	EET SEA	09/25/24 20:18
Total/NA	Analysis	NWTPH-Gx		1	472674	JBT	EET SEA	09/25/24 20:18

Client Sample ID: MW-312
Date Collected: 09/19/24 09:30
Date Received: 09/23/24 10:42

Lab Sample ID: 580-144101-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	472679	JBT	EET SEA	09/25/24 20:42
Total/NA	Analysis	NWTPH-Gx		1	472674	JBT	EET SEA	09/25/24 20:42

Client Sample ID: MW-313
Date Collected: 09/19/24 08:25
Date Received: 09/23/24 10:42

Lab Sample ID: 580-144101-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	472492	AA	EET SEA	09/24/24 20:43
Total/NA	Analysis	NWTPH-Gx		1	472488	AA	EET SEA	09/24/24 20:43
Total/NA	Prep	3510C			472618	JW	EET SEA	09/25/24 08:31
Total/NA	Analysis	NWTPH-Dx		1	473072	SW	EET SEA	09/29/24 01:12

Client Sample ID: MW-315
Date Collected: 09/19/24 08:55
Date Received: 09/23/24 10:42

Lab Sample ID: 580-144101-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	472679	JBT	EET SEA	09/25/24 21:05
Total/NA	Analysis	NWTPH-Gx		1	472674	JBT	EET SEA	09/25/24 21:05
Total/NA	Prep	3510C			472618	JW	EET SEA	09/25/24 08:31
Total/NA	Analysis	NWTPH-Dx		1	473072	SW	EET SEA	09/29/24 01:32

Client Sample ID: TX-03A
Date Collected: 09/19/24 10:45
Date Received: 09/23/24 10:42

Lab Sample ID: 580-144101-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	472492	AA	EET SEA	09/24/24 23:25

Lab Chronicle

Client: GHD Services Inc. Job ID: 580-144101-1
Project/Site: Shell - Washington- 2555 13th Avenue, WA

Client Sample ID: TX-03A
Lab Sample ID: 580-144101-12
Date Collected: 09/19/24 10:45
Matrix: Water
Date Received: 09/23/24 10:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NWTPH-Gx		10	472488	AA	EET SEA	09/24/24 23:25

Client Sample ID: TB-1
Lab Sample ID: 580-144101-13
Date Collected: 09/19/24 09:00
Matrix: Water
Date Received: 09/23/24 10:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	472492	AA	EET SEA	09/24/24 19:34
Total/NA	Analysis	NWTPH-Gx		1	472488	AA	EET SEA	09/24/24 19:34

Laboratory References:
EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: GHD Services Inc.
Job ID: 580-144101-1
Project/Site: Shell - Washington- 2555 13th Avenue, WA

Laboratory: Eurofins Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4167	07-07-25
Washington	State	C788-24	07-13-25

Sample Summary

Client: GHD Services Inc.
Job ID: 580-144101-1
Project/Site: Shell - Washington- 2555 13th Avenue, WA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-144101-1	MW-301	Water	09/18/24 11:00	09/23/24 10:42
580-144101-2	MW-302	Water	09/19/24 11:20	09/23/24 10:42
580-144101-3	MW-303	Water	09/18/24 11:20	09/23/24 10:42
580-144101-4	MW-304	Water	09/18/24 11:48	09/23/24 10:42
580-144101-5	MW-307	Water	09/18/24 10:25	09/23/24 10:42
580-144101-6	MW-308	Water	09/18/24 10:00	09/23/24 10:42
580-144101-7	MW-310	Water	09/18/24 12:10	09/23/24 10:42
580-144101-8	MW-311	Water	09/19/24 08:00	09/23/24 10:42
580-144101-9	MW-312	Water	09/19/24 09:30	09/23/24 10:42
580-144101-10	MW-313	Water	09/19/24 08:25	09/23/24 10:42
580-144101-11	MW-315	Water	09/19/24 08:55	09/23/24 10:42
580-144101-12	TX-03A	Water	09/19/24 10:45	09/23/24 10:42
580-144101-13	TB-1	Water	09/19/24 09:00	09/23/24 10:42

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:
- ☐ SGW FDG ☐ PIPELINE ☐ RETAIL
- ☐ CHEMICALS ☐ CONSULTANT ☐ LUBES
- ☐ TRANSPORTATION ☐ OTHER _____

Print Bill To Contact Name:

PlaNet Site or Project ID

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 9/19/24

PAGE: 1 of 2

PO #

GSAP Project ID

SAMPLING COMPANY: Blaine Tech Services, Inc

LOG CODE: BTSS

SITE ADDRESS: Street and City: 2555 13th Avenue

State: WA

GHD Project / Task Number: 12631170

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

EDF DELIVERABLE TO (Name, Company, Office Location): Emily Blakeway, GHD, WA

PHONE NO.: (425) 327-4585

E-MAIL: emily.blakeway@ghd.com

GHD Other ID

PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway

TELEPHONE: (425) 327-4585

FAX:

Bill To Contact E-MAIL: emily.blakeway@ghd.com

SAMPLER NAME(S) (Print): Aimee Rike

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED
- ☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

UNIT COST: 8260C BTEX; NWTPH-Dx

NON-UNIT COST: NWTPH-Gx; Total Lead; PAH

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	8260C BTEX	NWTPH-Dx	NWTPH-Gx	Total Lead	PAH
	MW-301	9/18/24	1100	GW	X					4	X		X		
	MW-302	9/19/24	1120		X					4	X		X		
	MW-303	9/18/24	1120		X					4	X		X		
	MW-304	9/18/24	1148		X					4	X		X		
	MW-307	9/18/24	1025		X					4	X		X		
	MW-308	9/18/24	1000		X					4	X		X		
	MW-310	9/18/24	1210		X					4	X		X		
	MW-311	9/19/24	0800		X					4	X		X		
	MW-312	9/19/24	0930		X					4	X		X		
	MW-313	9/19/24	0825	↓	X					6	X	X	X		

580-144101 Chain of Custody

Relinquished by: (Signature)	Received by: (Signature)	Date: 9/23/24	Time: 1042
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

SB/wet/bub/CD IR14 4.6/4.3

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:
- ☐ SGW FDG
- ☐ PIPELINE
- ☐ RETAIL
- ☐ CHEMICALS
- ☐ CONSULTANT
- ☐ LUBES
- ☐ TRANSPORTATION
- ☐ OTHER

Print Bill To Contact Name:

PlaNet Site or Project ID

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 9/19/24

PAGE: 2 of 2

PO #

GSAP Project ID

SAMPLING COMPANY: Blaine Tech Services, Inc

LOG CODE: BTSS

SITE ADDRESS: Street and City: 2555 13th Avenue

State: WA

GHD Project / Task Number: 12631170

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

EDF DELIVERABLE TO (Name, Company, Office Location): Emily Blakeway, GHD, WA

PHONE NO.: (425) 327-4585

E-MAIL: emily.blakeway@ghd.com

GHD Other ID

PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway

TELEPHONE: (425) 327-4585

FAX:

Bill To Contact E-MAIL: emily.blakeway@ghd.com

SAMPLER NAME(S) (Print): Aimee Rike

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
- ☑ STANDARD (14 DAY)
- ☐ 5 DAYS
- ☐ 3 DAYS
- ☐ 2 DAYS
- ☐ 24 HOURS
- ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED
- ☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

UNIT COST: 8260C BTEX; NWTPH-Dx

NON-UNIT COST: NWTPH-Gx; Total Lead; PAH

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	8260C BTEX	NWTPH-Dx	NWTPH-Gx	Total Lead	PAH
	MW-31S	9/19/24	0855	GW	X					6	X	X	X		
	TX-03A	9/19/24	1045	↓	X					4	X		X		
	TB-1	9/19/24	0900	↓	X					2	X		X		

Relinquished by: (Signature)	Received by: (Signature)	Date: 9/23/24	Time: 1042
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

SB/met/bob/CD IR14 4.6/4.3

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 580-144101-1
SDG Number:

Login Number: 144101
List Number: 1
Creator: Mcalpine, James 1

List Source: Eurofins Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Emily Blakeway
GHD Services Inc.
9725 3rd Avenue NE, Suite 204
Seattle, Washington 98115

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JOB DESCRIPTION

Shell - 2555 13th Avenue

JOB NUMBER

580-146726-1

Eurofins Seattle
5755 8th Street East
Tacoma WA 98424

See page two for job notes and contact information.

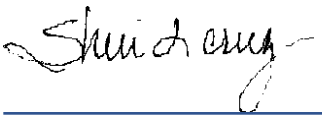
my EOL

Job Notes

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Authorization



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Authorized for release by
Sheri Cruz, Project Manager I
Sheri.Cruz@et.eurofinsus.com
(253)922-2310

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Job Narrative
580-146726-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/18/2024 11:36 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.8°C, 3.3°C, 3.6°C and 4.5°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS VOA
Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: TX-03A (580-146726-17), MW-304 (580-146726-18) and MW-303 (580-146726-19). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Hydrocarbons
Method NWTPH_Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern is not the typical diesel fuel pattern used by the laboratory for quantitative purposes: MW-115 (580-146726-29), MW-202 (580-146726-31) and MW-201 (580-146726-32).

Method NWTPH_Dx: The following sample contained a hydrocarbon pattern in the diesel range; however, the elution pattern is not the typical diesel fuel pattern used by the laboratory for quantitative purposes: MW-111 (580-146726-33).

Method NWTPH_Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution patterns are not the typical diesel fuel pattern used by the laboratory for quantitative purposes: MW-102 (580-146726-5), TX-06A (580-146726-6), MW-213 (580-146726-7), MW-203 (580-146726-9), MW-206A (580-146726-10), MW-204 (580-146726-11) and MW-313 (580-146726-12).

Method NWTPH_Dx: The following sample was re-prepared outside of preparation holding time due to low surrogate recovery in original extraction. Sample results are different from original and surrogate recovery in now within passing criteria. Out of hold data is reported as primary: MW-114 (580-146726-27).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 300.0_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 580-481954 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Job ID: 580-146726-1 (Continued) Eurofins Seattle

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-307

Date Collected: 12/16/24 10:04
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	50.3		1.00	0.240	ug/L			12/19/24 20:45	1
Toluene	12.0		1.00	0.390	ug/L			12/19/24 20:45	1
Ethylbenzene	22.8		1.00	0.500	ug/L			12/19/24 20:45	1
Xylenes, Total	31.1		2.00	0.530	ug/L			12/19/24 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*12/19/24 20:45*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*12/19/24 20:45*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*12/19/24 20:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*12/19/24 20:45*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1820		150	73.0	ug/L			12/19/24 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*77 - 123*		*12/19/24 20:45*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	2500		216	98.1	ug/L		12/20/24 12:39	01/03/25 19:09	1
Motor Oil (>C24-C36)	499		377	140	ug/L		12/20/24 12:39	01/03/25 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*50 - 150*	*12/20/24 12:39*	*01/03/25 19:09*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.500	0.0667	mg/L		12/26/24 16:42	12/27/24 13:26	5
Manganese	0.400	B	0.0100	0.00230	mg/L		12/26/24 16:42	12/27/24 13:26	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (EPA 300.0)	982	J	1500	800	ug/L			01/04/25 05:33	1
Nitrate Nitrite as N (EPA 353.2)	0.109		0.100	0.0440	mg/L			12/30/24 14:37	1

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: TES-MW-1

Date Collected: 12/16/24 10:12
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-2

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/19/24 16:53	1
Toluene	ND		1.00	0.390	ug/L			12/19/24 16:53	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/19/24 16:53	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/19/24 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*12/19/24 16:53*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*12/19/24 16:53*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*12/19/24 16:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*12/19/24 16:53*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			12/19/24 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*77 - 123*		*12/19/24 16:53*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		216	98.4	ug/L		12/20/24 12:39	01/03/25 19:29	1
Motor Oil (>C24-C36)	ND		378	141	ug/L		12/20/24 12:39	01/03/25 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*12/20/24 12:39*	*01/03/25 19:29*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-308

Date Collected: 12/16/24 10:31
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-3

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/19/24 17:16	1
Toluene	ND		1.00	0.390	ug/L			12/19/24 17:16	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/19/24 17:16	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/19/24 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*12/19/24 17:16*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*12/19/24 17:16*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*12/19/24 17:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*12/19/24 17:16*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			12/19/24 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*77 - 123*		*12/19/24 17:16*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.500	0.0667	mg/L		12/26/24 16:42	12/27/24 13:29	5
Manganese	**0.0168**	**B**	0.0100	0.00230	mg/L		12/26/24 16:42	12/27/24 13:29	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (EPA 300.0)	**76100**		1500	800	ug/L			01/04/25 05:45	1
Nitrate Nitrite as N (EPA 353.2)	**0.179**		0.100	0.0440	mg/L			12/30/24 14:38	1

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-101

Date Collected: 12/16/24 10:56
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-4

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/20/24 16:24	1
Toluene	ND		1.00	0.390	ug/L			12/20/24 16:24	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/20/24 16:24	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/20/24 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*12/20/24 16:24*	*1*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*12/20/24 16:24*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*12/20/24 16:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*12/20/24 16:24*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**322**		150	73.0	ug/L			12/20/24 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*77 - 123*		*12/20/24 16:24*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**2850**		227	103	ug/L		12/27/24 08:12	12/30/24 16:29	1
Motor Oil (>C24-C36)	**480**		398	148	ug/L		12/27/24 08:12	12/30/24 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*50 - 150*	*12/27/24 08:12*	*12/30/24 16:29*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-102

Date Collected: 12/16/24 11:02
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-5

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/19/24 17:39	1
Toluene	ND		1.00	0.390	ug/L			12/19/24 17:39	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/19/24 17:39	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/19/24 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*12/19/24 17:39*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*12/19/24 17:39*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*12/19/24 17:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*12/19/24 17:39*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			12/19/24 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*77 - 123*		*12/19/24 17:39*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**440**		212	96.4	ug/L		12/20/24 12:39	01/03/25 20:09	1
Motor Oil (>C24-C36)	**356**	**J**	371	138	ug/L		12/20/24 12:39	01/03/25 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*12/20/24 12:39*	*01/03/25 20:09*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: TX-06A

Date Collected: 12/16/24 11:39
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-6

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/19/24 18:03	1
Toluene	ND		1.00	0.390	ug/L			12/19/24 18:03	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/19/24 18:03	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/19/24 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*12/19/24 18:03*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*12/19/24 18:03*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*12/19/24 18:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*12/19/24 18:03*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			12/19/24 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*77 - 123*		*12/19/24 18:03*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**885**		216	98.2	ug/L		12/20/24 12:39	01/03/25 20:29	1
Motor Oil (>C24-C36)	**527**		378	140	ug/L		12/20/24 12:39	01/03/25 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*12/20/24 12:39*	*01/03/25 20:29*	*1*

Client Sample ID: MW-213

Date Collected: 12/16/24 11:41
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-7

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/19/24 20:21	1
Toluene	ND		1.00	0.390	ug/L			12/19/24 20:21	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/19/24 20:21	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/19/24 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*12/19/24 20:21*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*12/19/24 20:21*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*12/19/24 20:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*12/19/24 20:21*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			12/19/24 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*77 - 123*		*12/19/24 20:21*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.0537	0.0150	ug/L		12/23/24 09:09	12/31/24 19:09	1
Benzo[a]pyrene	ND		0.107	0.0236	ug/L		12/23/24 09:09	12/31/24 19:09	1
Benzo[b]fluoranthene	ND		0.107	0.0236	ug/L		12/23/24 09:09	12/31/24 19:09	1
Benzo[k]fluoranthene	ND		0.0537	0.0129	ug/L		12/23/24 09:09	12/31/24 19:09	1
Chrysene	ND		0.107	0.0398	ug/L		12/23/24 09:09	12/31/24 19:09	1
Dibenz(a,h)anthracene	ND		0.107	0.0161	ug/L		12/23/24 09:09	12/31/24 19:09	1
Indeno[1,2,3-cd]pyrene	ND		0.0537	0.0150	ug/L		12/23/24 09:09	12/31/24 19:09	1
1-Methylnaphthalene	ND		0.107	0.0355	ug/L		12/23/24 09:09	12/31/24 19:09	1
2-Methylnaphthalene	ND		0.215	0.0419	ug/L		12/23/24 09:09	12/31/24 19:09	1
Naphthalene	ND		0.537	0.175	ug/L		12/23/24 09:09	12/31/24 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*66*		*29 - 150*	*12/23/24 09:09*	*12/31/24 19:09*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**332**		214	97.5	ug/L		12/20/24 12:39	01/03/25 20:49	1
Motor Oil (>C24-C36)	**420**		375	139	ug/L		12/20/24 12:39	01/03/25 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*50 - 150*	*12/20/24 12:39*	*01/03/25 20:49*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-214

Date Collected: 12/16/24 12:08
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-8

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/19/24 18:26	1
Toluene	ND		1.00	0.390	ug/L			12/19/24 18:26	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/19/24 18:26	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/19/24 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*12/19/24 18:26*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*12/19/24 18:26*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*12/19/24 18:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*12/19/24 18:26*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			12/19/24 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*77 - 123*		*12/19/24 18:26*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.0519	0.0145	ug/L		12/23/24 09:09	12/31/24 19:34	1
Benzo[a]pyrene	ND		0.104	0.0229	ug/L		12/23/24 09:09	12/31/24 19:34	1
Benzo[b]fluoranthene	ND		0.104	0.0229	ug/L		12/23/24 09:09	12/31/24 19:34	1
Benzo[k]fluoranthene	ND		0.0519	0.0125	ug/L		12/23/24 09:09	12/31/24 19:34	1
Chrysene	ND		0.104	0.0384	ug/L		12/23/24 09:09	12/31/24 19:34	1
Dibenz(a,h)anthracene	ND		0.104	0.0156	ug/L		12/23/24 09:09	12/31/24 19:34	1
Indeno[1,2,3-cd]pyrene	ND		0.0519	0.0145	ug/L		12/23/24 09:09	12/31/24 19:34	1
1-Methylnaphthalene	ND		0.104	0.0343	ug/L		12/23/24 09:09	12/31/24 19:34	1
2-Methylnaphthalene	ND		0.208	0.0405	ug/L		12/23/24 09:09	12/31/24 19:34	1
Naphthalene	ND		0.519	0.169	ug/L		12/23/24 09:09	12/31/24 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*69*		*29 - 150*	*12/23/24 09:09*	*12/31/24 19:34*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**165**	**J**	214	97.2	ug/L		12/20/24 12:39	01/03/25 21:09	1
Motor Oil (>C24-C36)	ND		374	139	ug/L		12/20/24 12:39	01/03/25 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*50 - 150*	*12/20/24 12:39*	*01/03/25 21:09*	*1*

Client Sample ID: MW-203

Date Collected: 12/16/24 12:16
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-9

Matrix: Water

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	823		150	73.0	ug/L			12/19/24 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*77 - 123*		*12/19/24 18:49*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	470		215	97.9	ug/L		12/20/24 12:39	01/03/25 21:49	1
Motor Oil (>C24-C36)	665		377	140	ug/L		12/20/24 12:39	01/03/25 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*12/20/24 12:39*	*01/03/25 21:49*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5.57	B	0.500	0.0667	mg/L		12/26/24 16:42	12/27/24 13:09	5
Manganese	0.252	B	0.0100	0.00230	mg/L		12/26/24 16:42	12/27/24 13:09	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (EPA 300.0)	6860		1500	800	ug/L			01/04/25 05:57	1
Nitrate Nitrite as N (EPA 353.2)	0.118		0.100	0.0440	mg/L			12/30/24 14:39	1

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-206A

Date Collected: 12/16/24 12:42
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-10

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/19/24 19:12	1
Toluene	ND		1.00	0.390	ug/L			12/19/24 19:12	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/19/24 19:12	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/19/24 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*12/19/24 19:12*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*12/19/24 19:12*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*12/19/24 19:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*12/19/24 19:12*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			12/19/24 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*77 - 123*		*12/19/24 19:12*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**238**		217	98.7	ug/L		12/20/24 12:39	01/03/25 22:09	1
Motor Oil (>C24-C36)	**639**		380	141	ug/L		12/20/24 12:39	01/03/25 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*12/20/24 12:39*	*01/03/25 22:09*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-204

Date Collected: 12/16/24 12:51
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-11

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.287**	**J**	1.00	0.240	ug/L			12/19/24 19:35	1
Toluene	ND		1.00	0.390	ug/L			12/19/24 19:35	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/19/24 19:35	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/19/24 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*12/19/24 19:35*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*12/19/24 19:35*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*12/19/24 19:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*12/19/24 19:35*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			12/19/24 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*77 - 123*		*12/19/24 19:35*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**386**		217	98.7	ug/L		12/20/24 12:39	01/03/25 22:29	1
Motor Oil (>C24-C36)	**730**		380	141	ug/L		12/20/24 12:39	01/03/25 22:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*12/20/24 12:39*	*01/03/25 22:29*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-313

Date Collected: 12/17/24 08:38
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-12

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/20/24 16:01	1
Toluene	ND		1.00	0.390	ug/L			12/20/24 16:01	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/20/24 16:01	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/20/24 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*12/20/24 16:01*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*12/20/24 16:01*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*12/20/24 16:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*12/20/24 16:01*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			12/20/24 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*77 - 123*		*12/20/24 16:01*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**243**		210	95.6	ug/L		12/20/24 12:39	01/03/25 22:49	1
Motor Oil (>C24-C36)	**351**	**J**	368	137	ug/L		12/20/24 12:39	01/03/25 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*12/20/24 12:39*	*01/03/25 22:49*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-302

Date Collected: 12/17/24 08:46
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-13

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	12.3		1.00	0.240	ug/L			12/22/24 07:16	1
Toluene	2.62		1.00	0.390	ug/L			12/22/24 07:16	1
Ethylbenzene	0.549	J	1.00	0.500	ug/L			12/22/24 07:16	1
Xylenes, Total	3.66		2.00	0.530	ug/L			12/22/24 07:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*120*		*80 - 120*		*12/22/24 07:16*	*1*
4-Bromofluorobenzene (Surr)	*122*	*S1+*	*80 - 120*		*12/22/24 07:16*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*12/22/24 07:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*12/22/24 07:16*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	879		150	73.0	ug/L			12/22/24 07:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*77 - 123*		*12/22/24 07:16*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	2530		209	95.3	ug/L		12/20/24 12:39	01/03/25 23:09	1
Motor Oil (>C24-C36)	692		366	136	ug/L		12/20/24 12:39	01/03/25 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*50 - 150*	*12/20/24 12:39*	*01/03/25 23:09*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3.13	B	0.500	0.0667	mg/L		12/26/24 16:42	12/27/24 12:54	5
Manganese	0.798	B	0.0100	0.00230	mg/L		12/26/24 16:42	12/27/24 12:54	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (EPA 300.0)	9990		1500	800	ug/L			01/04/25 06:09	1
Nitrate Nitrite as N (EPA 353.2)	0.0450	J	0.100	0.0440	mg/L			12/30/24 14:41	1

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-315

Date Collected: 12/17/24 09:01
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-14

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.71**		1.00	0.240	ug/L			12/22/24 07:39	1
Toluene	**3.20**		1.00	0.390	ug/L			12/22/24 07:39	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/22/24 07:39	1
Xylenes, Total	**2.97**		2.00	0.530	ug/L			12/22/24 07:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/22/24 07:39*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*12/22/24 07:39*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*12/22/24 07:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*12/22/24 07:39*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**2790**		150	73.0	ug/L			12/22/24 07:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*77 - 123*		*12/22/24 07:39*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**4170**		215	97.8	ug/L		12/20/24 12:39	01/03/25 23:29	1
Motor Oil (>C24-C36)	**488**		376	140	ug/L		12/20/24 12:39	01/03/25 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*50 - 150*	*12/20/24 12:39*	*01/03/25 23:29*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-312

Date Collected: 12/17/24 09:25
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-15

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5.49		1.00	0.240	ug/L			12/22/24 08:03	1
Toluene	2.47		1.00	0.390	ug/L			12/22/24 08:03	1
Ethylbenzene	1.41		1.00	0.500	ug/L			12/22/24 08:03	1
Xylenes, Total	2.38		2.00	0.530	ug/L			12/22/24 08:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/22/24 08:03*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*12/22/24 08:03*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*12/22/24 08:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*12/22/24 08:03*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2750		150	73.0	ug/L			12/22/24 08:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*77 - 123*		*12/22/24 08:03*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.06	B	0.500	0.0667	mg/L		12/26/24 16:42	12/27/24 13:13	5
Manganese	0.689	B	0.0100	0.00230	mg/L		12/26/24 16:42	12/27/24 13:13	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (EPA 300.0)	ND		1500	800	ug/L			01/04/25 06:21	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.100	0.0440	mg/L			12/30/24 14:42	1

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-311

Date Collected: 12/17/24 09:27
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-16

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	10.6		1.00	0.240	ug/L			12/22/24 09:12	1
Toluene	2.63		1.00	0.390	ug/L			12/22/24 09:12	1
Ethylbenzene	0.552	J	1.00	0.500	ug/L			12/22/24 09:12	1
Xylenes, Total	1.61	J	2.00	0.530	ug/L			12/22/24 09:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*12/22/24 09:12*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*12/22/24 09:12*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*12/22/24 09:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*12/22/24 09:12*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2500		150	73.0	ug/L			12/22/24 09:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*77 - 123*		*12/22/24 09:12*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.47	B	0.500	0.0667	mg/L		12/26/24 16:42	12/27/24 13:16	5
Manganese	1.05	B	0.0100	0.00230	mg/L		12/26/24 16:42	12/27/24 13:16	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (EPA 300.0)	ND		1500	800	ug/L			01/04/25 06:33	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.100	0.0440	mg/L			12/30/24 14:43	1

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: TX-03A

Date Collected: 12/17/24 10:05
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-17

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	132		10.0	2.40	ug/L			12/20/24 20:15	10
Toluene	8.40	J	10.0	3.90	ug/L			12/20/24 20:15	10
Ethylbenzene	5.06	J	10.0	5.00	ug/L			12/20/24 20:15	10
Xylenes, Total	11.0	J	20.0	5.30	ug/L			12/20/24 20:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*12/20/24 20:15*	*10*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*12/20/24 20:15*	*10*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*12/20/24 20:15*	*10*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*12/20/24 20:15*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1920		1500	730	ug/L			12/22/24 10:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*77 - 123*		*12/22/24 10:46*	*10*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	1500		225	102	ug/L		12/20/24 12:39	01/03/25 23:49	1
Motor Oil (>C24-C36)	639		393	146	ug/L		12/20/24 12:39	01/03/25 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*50 - 150*	*12/20/24 12:39*	*01/03/25 23:49*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.165	J B	0.500	0.0667	mg/L		12/26/24 16:42	12/27/24 12:58	5
Manganese	0.525	B	0.0100	0.00230	mg/L		12/26/24 16:42	12/27/24 12:58	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (EPA 300.0)	1030	J	1500	800	ug/L			01/04/25 07:09	1
Nitrate Nitrite as N (EPA 353.2)	0.0617	J	0.100	0.0440	mg/L			12/30/24 15:04	1

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-304

Date Collected: 12/17/24 10:06
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-18

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**234**		10.0	2.40	ug/L			12/20/24 18:20	10
Toluene	**11.2**		10.0	3.90	ug/L			12/20/24 18:20	10
Ethylbenzene	ND		10.0	5.00	ug/L			12/20/24 18:20	10
Xylenes, Total	**33.5**		20.0	5.30	ug/L			12/20/24 18:20	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*12/20/24 18:20*	*10*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*		*12/20/24 18:20*	*10*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*12/20/24 18:20*	*10*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*12/20/24 18:20*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**2300**		1500	730	ug/L			12/22/24 10:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*77 - 123*		*12/22/24 10:22*	*10*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**1520**		218	99.1	ug/L		12/20/24 12:39	01/04/25 00:09	1
Motor Oil (>C24-C36)	**329**	**J**	381	142	ug/L		12/20/24 12:39	01/04/25 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*50 - 150*	*12/20/24 12:39*	*01/04/25 00:09*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.863**	**B**	0.500	0.0667	mg/L		12/26/24 16:42	12/27/24 13:01	5
Manganese	**0.361**	**B**	0.0100	0.00230	mg/L		12/26/24 16:42	12/27/24 13:01	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (EPA 300.0)	ND		1500	800	ug/L			01/04/25 07:20	1
Nitrate Nitrite as N (EPA 353.2)	**0.0733**	**J**	0.100	0.0440	mg/L			12/30/24 15:06	1

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-303

Date Collected: 12/17/24 10:36
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-19

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**68.6**		10.0	2.40	ug/L			12/20/24 19:06	10
Toluene	ND		10.0	3.90	ug/L			12/20/24 19:06	10
Ethylbenzene	**106**		10.0	5.00	ug/L			12/20/24 19:06	10
Xylenes, Total	**10.6**	**J**	20.0	5.30	ug/L			12/20/24 19:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*12/20/24 19:06*	*10*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*12/20/24 19:06*	*10*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*12/20/24 19:06*	*10*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*12/20/24 19:06*	*10*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**3990**		212	96.5	ug/L		12/20/24 12:39	01/04/25 00:29	1
Motor Oil (>C24-C36)	**665**		371	138	ug/L		12/20/24 12:39	01/04/25 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*50 - 150*	*12/20/24 12:39*	*01/04/25 00:29*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (EPA 300.0)	**2030**		1500	800	ug/L			01/04/25 07:32	1

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-310

Date Collected: 12/17/24 10:43
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-20

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**20.1**		1.00	0.240	ug/L			12/22/24 09:36	1
Toluene	**3.15**		1.00	0.390	ug/L			12/22/24 09:36	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/22/24 09:36	1
Xylenes, Total	**7.88**		2.00	0.530	ug/L			12/22/24 09:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/22/24 09:36*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*12/22/24 09:36*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*12/22/24 09:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*12/22/24 09:36*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**1010**		150	73.0	ug/L			12/22/24 09:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*77 - 123*		*12/22/24 09:36*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**3230**		217	98.9	ug/L		12/20/24 12:39	01/04/25 00:49	1
Motor Oil (>C24-C36)	**905**		380	141	ug/L		12/20/24 12:39	01/04/25 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*12/20/24 12:39*	*01/04/25 00:49*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3.77**	**B**	0.500	0.0667	mg/L		12/26/24 16:42	12/27/24 12:38	5
Manganese	**0.803**	**B**	0.0100	0.00230	mg/L		12/26/24 16:42	12/27/24 12:38	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (EPA 300.0)	ND		1500	800	ug/L			01/04/25 07:44	1
Nitrate Nitrite as N (EPA 353.2)	**0.0506**	**J**	0.100	0.0440	mg/L			12/30/24 15:07	1

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-301

Date Collected: 12/17/24 11:04
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-21

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	52.6		1.00	0.240	ug/L			12/22/24 09:59	1
Toluene	8.42		1.00	0.390	ug/L			12/22/24 09:59	1
Ethylbenzene	1.70		1.00	0.500	ug/L			12/22/24 09:59	1
Xylenes, Total	7.93		2.00	0.530	ug/L			12/22/24 09:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/22/24 09:59*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*12/22/24 09:59*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*12/22/24 09:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*12/22/24 09:59*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1080		150	73.0	ug/L			12/22/24 09:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*77 - 123*		*12/22/24 09:59*	*1*

Client Sample ID: SH-04

Date Collected: 12/17/24 11:45
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-22

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**4.78**		1.00	0.240	ug/L			12/20/24 17:10	1
Toluene	**1.15**		1.00	0.390	ug/L			12/20/24 17:10	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/20/24 17:10	1
Xylenes, Total	**1.63**	**J**	2.00	0.530	ug/L			12/20/24 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*12/20/24 17:10*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*12/20/24 17:10*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*12/20/24 17:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*12/20/24 17:10*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**247**		150	73.0	ug/L			12/20/24 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*77 - 123*		*12/20/24 17:10*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**2570**		204	92.7	ug/L		12/20/24 12:39	01/04/25 01:30	1
Motor Oil (>C24-C36)	**361**		357	132	ug/L		12/20/24 12:39	01/04/25 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*12/20/24 12:39*	*01/04/25 01:30*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-309

Date Collected: 12/17/24 11:48
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-23

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/20/24 16:47	1
Toluene	ND		1.00	0.390	ug/L			12/20/24 16:47	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/20/24 16:47	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/20/24 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*12/20/24 16:47*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*12/20/24 16:47*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*12/20/24 16:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*12/20/24 16:47*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**86.1**	**J**	150	73.0	ug/L			12/20/24 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*77 - 123*		*12/20/24 16:47*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**202**	**J**	227	103	ug/L		12/20/24 12:39	01/04/25 01:49	1
Motor Oil (>C24-C36)	**175**	**J**	398	148	ug/L		12/20/24 12:39	01/04/25 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*12/20/24 12:39*	*01/04/25 01:49*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-112A

Date Collected: 12/17/24 12:29
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-24

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.70		1.00	0.240	ug/L			12/23/24 18:36	1
Toluene	1.75		1.00	0.390	ug/L			12/23/24 18:36	1
Ethylbenzene	0.914	J	1.00	0.500	ug/L			12/23/24 18:36	1
Xylenes, Total	1.57	J	2.00	0.530	ug/L			12/23/24 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/23/24 18:36*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*12/23/24 18:36*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*12/23/24 18:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*12/23/24 18:36*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1430		150	73.0	ug/L			12/27/24 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*77 - 123*		*12/27/24 20:26*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	4440		207	94.2	ug/L		12/20/24 12:39	01/04/25 02:10	1
Motor Oil (>C24-C36)	1190		362	135	ug/L		12/20/24 12:39	01/04/25 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*12/20/24 12:39*	*01/04/25 02:10*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: TX-04

Date Collected: 12/17/24 12:31
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-25

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/21/24 21:12	1
Toluene	ND		1.00	0.390	ug/L			12/21/24 21:12	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/21/24 21:12	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/21/24 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/21/24 21:12*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*12/21/24 21:12*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*12/21/24 21:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*12/21/24 21:12*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			12/21/24 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*77 - 123*		*12/21/24 21:12*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**160**	**J**	219	99.9	ug/L		12/20/24 12:39	01/04/25 02:30	1
Motor Oil (>C24-C36)	**194**	**J**	384	143	ug/L		12/20/24 12:39	01/04/25 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*50 - 150*	*12/20/24 12:39*	*01/04/25 02:30*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-105

Date Collected: 12/17/24 13:47
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-26

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/21/24 21:35	1
Toluene	ND		1.00	0.390	ug/L			12/21/24 21:35	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/21/24 21:35	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/21/24 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/21/24 21:35*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*12/21/24 21:35*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*12/21/24 21:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*80 - 120*		*12/21/24 21:35*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			12/21/24 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*77 - 123*		*12/21/24 21:35*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**153**	**J**	209	94.9	ug/L		12/27/24 08:17	12/30/24 23:10	1
Motor Oil (>C24-C36)	**416**		365	136	ug/L		12/27/24 08:17	12/30/24 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*50 - 150*	*12/27/24 08:17*	*12/30/24 23:10*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**9.21**		2.50	0.200	ug/L		12/23/24 17:34	12/26/24 16:12	5

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-114

Date Collected: 12/17/24 13:54
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-27

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/21/24 21:58	1
Toluene	ND		1.00	0.390	ug/L			12/21/24 21:58	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/21/24 21:58	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/21/24 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*12/21/24 21:58*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*12/21/24 21:58*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*12/21/24 21:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*80 - 120*		*12/21/24 21:58*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			12/21/24 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*77 - 123*		*12/21/24 21:58*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**209**	**J H**	234	106	ug/L		01/03/25 08:30	01/04/25 00:09	1
Motor Oil (>C24-C36)	**641**	**H**	409	152	ug/L		01/03/25 08:30	01/04/25 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*50 - 150*	*01/03/25 08:30*	*01/04/25 00:09*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-113

Date Collected: 12/17/24 14:13
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-28

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	24.6		1.00	0.240	ug/L			12/22/24 01:27	1
Toluene	3.57		1.00	0.390	ug/L			12/22/24 01:27	1
Ethylbenzene	1.64		1.00	0.500	ug/L			12/22/24 01:27	1
Xylenes, Total	3.04		2.00	0.530	ug/L			12/22/24 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/22/24 01:27*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*12/22/24 01:27*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*12/22/24 01:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*12/22/24 01:27*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	172		150	73.0	ug/L			12/22/24 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*77 - 123*		*12/22/24 01:27*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	757		213	97.0	ug/L		12/27/24 08:17	12/30/24 23:50	1
Motor Oil (>C24-C36)	381		373	139	ug/L		12/27/24 08:17	12/30/24 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*50 - 150*	*12/27/24 08:17*	*12/30/24 23:50*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-115

Date Collected: 12/17/24 14:23
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-29

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/22/24 00:41	1
Toluene	ND		1.00	0.390	ug/L			12/22/24 00:41	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/22/24 00:41	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/22/24 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*12/22/24 00:41*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*12/22/24 00:41*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*12/22/24 00:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*80 - 120*		*12/22/24 00:41*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**193**		150	73.0	ug/L			12/22/24 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*77 - 123*		*12/22/24 00:41*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**756**		218	99.1	ug/L		12/27/24 08:17	12/31/24 00:10	1
Motor Oil (>C24-C36)	**637**		381	142	ug/L		12/27/24 08:17	12/31/24 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*12/27/24 08:17*	*12/31/24 00:10*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-314

Date Collected: 12/17/24 15:24
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-30

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.406	J	1.00	0.240	ug/L			12/22/24 01:04	1
Toluene	1.10		1.00	0.390	ug/L			12/22/24 01:04	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/22/24 01:04	1
Xylenes, Total	1.44	J	2.00	0.530	ug/L			12/22/24 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/22/24 01:04*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*12/22/24 01:04*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*12/22/24 01:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*12/22/24 01:04*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	522		150	73.0	ug/L			12/22/24 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*77 - 123*		*12/22/24 01:04*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	1620		209	94.9	ug/L		12/27/24 08:17	12/31/24 00:30	1
Motor Oil (>C24-C36)	535		365	136	ug/L		12/27/24 08:17	12/31/24 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*50 - 150*	*12/27/24 08:17*	*12/31/24 00:30*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-202

Date Collected: 12/18/24 08:42
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-31

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.78		1.00	0.240	ug/L			12/27/24 20:49	1
Toluene	0.939	J	1.00	0.390	ug/L			12/27/24 20:49	1
Ethylbenzene	1.42		1.00	0.500	ug/L			12/27/24 20:49	1
Xylenes, Total	0.739	J	2.00	0.530	ug/L			12/27/24 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*12/27/24 20:49*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*12/27/24 20:49*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*12/27/24 20:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*12/27/24 20:49*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1080		150	73.0	ug/L			12/27/24 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*77 - 123*		*12/27/24 20:49*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	6900		206	93.7	ug/L		12/27/24 08:17	12/31/24 00:50	1
Motor Oil (>C24-C36)	843		361	134	ug/L		12/27/24 08:17	12/31/24 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*50 - 150*	*12/27/24 08:17*	*12/31/24 00:50*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.25	B	0.500	0.0667	mg/L		12/26/24 16:42	12/27/24 13:19	5
Manganese	0.509	B	0.0100	0.00230	mg/L		12/26/24 16:42	12/27/24 13:19	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (EPA 300.0)	24600		1500	800	ug/L			01/04/25 07:56	1
Nitrate Nitrite as N (EPA 353.2)	0.0521	J	0.100	0.0440	mg/L			12/30/24 15:08	1

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-201

Date Collected: 12/18/24 09:07
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-32

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/21/24 22:21	1
Toluene	ND		1.00	0.390	ug/L			12/21/24 22:21	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/21/24 22:21	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/21/24 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/21/24 22:21*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*12/21/24 22:21*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*12/21/24 22:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*		*12/21/24 22:21*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			12/21/24 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*77 - 123*		*12/21/24 22:21*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**204**		198	89.9	ug/L		12/27/24 08:17	12/31/24 01:10	1
Motor Oil (>C24-C36)	**419**		346	128	ug/L		12/27/24 08:17	12/31/24 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*50 - 150*	*12/27/24 08:17*	*12/31/24 01:10*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-111

Date Collected: 12/18/24 09:41
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-33

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**9.04**		1.00	0.240	ug/L			12/21/24 23:54	1
Toluene	**0.709**	**J**	1.00	0.390	ug/L			12/21/24 23:54	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/21/24 23:54	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/21/24 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*12/21/24 23:54*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*12/21/24 23:54*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*12/21/24 23:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*12/21/24 23:54*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**105**	**J**	150	73.0	ug/L			12/21/24 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*77 - 123*		*12/21/24 23:54*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**320**		210	95.5	ug/L		12/31/24 06:44	01/03/25 02:29	1
Motor Oil (>C24-C36)	**323**	**J**	367	136	ug/L		12/31/24 06:44	01/03/25 02:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99*		*50 - 150*	*12/31/24 06:44*	*01/03/25 02:29*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-104

Date Collected: 12/18/24 10:05
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-34

Matrix: Water

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	97.9	J	150	73.0	ug/L			12/21/24 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*77 - 123*		*12/21/24 23:31*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	152	J	209	94.9	ug/L		12/31/24 06:44	01/03/25 02:49	1
Motor Oil (>C24-C36)	166	J	365	136	ug/L		12/31/24 06:44	01/03/25 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*98*		*50 - 150*	*12/31/24 06:44*	*01/03/25 02:49*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.05		2.50	0.200	ug/L		12/23/24 17:34	12/26/24 16:15	5

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-05

Date Collected: 12/18/24 10:34
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-35

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/21/24 23:08	1
Toluene	ND		1.00	0.390	ug/L			12/21/24 23:08	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/21/24 23:08	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/21/24 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/21/24 23:08*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*12/21/24 23:08*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*12/21/24 23:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*80 - 120*		*12/21/24 23:08*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			12/21/24 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*77 - 123*		*12/21/24 23:08*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		208	94.4	ug/L		12/31/24 06:44	01/03/25 03:09	1
Motor Oil (>C24-C36)	**154**	**J**	363	135	ug/L		12/31/24 06:44	01/03/25 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99*		*50 - 150*	*12/31/24 06:44*	*01/03/25 03:09*	*1*

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: TB-1

Date Collected: 12/18/24 11:00
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-36

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/21/24 22:45	1
Toluene	ND		1.00	0.390	ug/L			12/21/24 22:45	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/21/24 22:45	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/21/24 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/21/24 22:45*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*12/21/24 22:45*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*12/21/24 22:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*80 - 120*		*12/21/24 22:45*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-480897/11
Matrix: Water
Analysis Batch: 480897

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/19/24 15:22	1
Toluene	ND		1.00	0.390	ug/L			12/19/24 15:22	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/19/24 15:22	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/19/24 15:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*12/19/24 15:22*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*12/19/24 15:22*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*12/19/24 15:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*12/19/24 15:22*	*1*

Lab Sample ID: LCS 580-480897/6
Matrix: Water
Analysis Batch: 480897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			5.00	5.106		ug/L		102	80 - 122		
Toluene			5.00	4.837		ug/L		97	80 - 120		
Ethylbenzene			5.00	5.011		ug/L		100	80 - 120		
Xylenes, Total			10.0	10.28		ug/L		103	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*

Lab Sample ID: LCSD 580-480897/7
Matrix: Water
Analysis Batch: 480897

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			5.00	5.107		ug/L		102	80 - 122	0	14
Toluene			5.00	4.694		ug/L		94	80 - 120	3	13
Ethylbenzene			5.00	5.018		ug/L		100	80 - 120	0	14
Xylenes, Total			10.0	10.21		ug/L		102	80 - 120	1	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-481040/11
Matrix: Water
Analysis Batch: 481040

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/20/24 15:10	1
Toluene	ND		1.00	0.390	ug/L			12/20/24 15:10	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/20/24 15:10	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/20/24 15:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*12/20/24 15:10*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*12/20/24 15:10*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*12/20/24 15:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*12/20/24 15:10*	*1*

Lab Sample ID: LCS 580-481040/6
Matrix: Water
Analysis Batch: 481040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			5.00	5.198		ug/L		104	80 - 122		
Toluene			5.00	4.748		ug/L		95	80 - 120		
Ethylbenzene			5.00	4.832		ug/L		97	80 - 120		
Xylenes, Total			10.0	9.858		ug/L		99	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 580-481040/7
Matrix: Water
Analysis Batch: 481040

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			5.00	5.316		ug/L		106	80 - 122	2	14
Toluene			5.00	4.675		ug/L		94	80 - 120	2	13
Ethylbenzene			5.00	4.826		ug/L		97	80 - 120	0	14
Xylenes, Total			10.0	9.705		ug/L		97	80 - 120	2	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-481148/10
Matrix: Water
Analysis Batch: 481148

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/21/24 18:06	1
Toluene	ND		1.00	0.390	ug/L			12/21/24 18:06	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/21/24 18:06	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/21/24 18:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/21/24 18:06*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*12/21/24 18:06*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*12/21/24 18:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*12/21/24 18:06*	*1*

Lab Sample ID: LCS 580-481148/5
Matrix: Water
Analysis Batch: 481148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			5.00	5.175		ug/L		104	80 - 122		
Toluene			5.00	5.068		ug/L		101	80 - 120		
Ethylbenzene			5.00	5.170		ug/L		103	80 - 120		
Xylenes, Total			10.0	10.47		ug/L		105	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*

Lab Sample ID: LCSD 580-481148/6
Matrix: Water
Analysis Batch: 481148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			5.00	4.918		ug/L		98	80 - 122	5	14
Toluene			5.00	4.779		ug/L		96	80 - 120	6	13
Ethylbenzene			5.00	4.951		ug/L		99	80 - 120	4	14
Xylenes, Total			10.0	10.01		ug/L		100	80 - 120	4	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-481154/10
Matrix: Water
Analysis Batch: 481154

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/22/24 06:30	1
Toluene	ND		1.00	0.390	ug/L			12/22/24 06:30	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/22/24 06:30	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/22/24 06:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/22/24 06:30*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*12/22/24 06:30*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*12/22/24 06:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*12/22/24 06:30*	*1*

Lab Sample ID: LCS 580-481154/5
Matrix: Water
Analysis Batch: 481154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			5.00	4.991		ug/L		100	80 - 122		
Toluene			5.00	4.843		ug/L		97	80 - 120		
Ethylbenzene			5.00	4.998		ug/L		100	80 - 120		
Xylenes, Total			10.0	10.08		ug/L		101	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*

Lab Sample ID: LCSD 580-481154/6
Matrix: Water
Analysis Batch: 481154

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			5.00	4.850		ug/L		97	80 - 122	3	14
Toluene			5.00	4.626		ug/L		93	80 - 120	5	13
Ethylbenzene			5.00	4.809		ug/L		96	80 - 120	4	14
Xylenes, Total			10.0	9.777		ug/L		98	80 - 120	3	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-481201/11
Matrix: Water
Analysis Batch: 481201

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/23/24 15:06	1
Toluene	ND		1.00	0.390	ug/L			12/23/24 15:06	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/23/24 15:06	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/23/24 15:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*12/23/24 15:06*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*12/23/24 15:06*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*12/23/24 15:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*12/23/24 15:06*	*1*

Lab Sample ID: LCS 580-481201/6
Matrix: Water
Analysis Batch: 481201

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			5.00	4.969		ug/L		99	80 - 122		
Toluene			5.00	4.738		ug/L		95	80 - 120		
Ethylbenzene			5.00	4.954		ug/L		99	80 - 120		
Xylenes, Total			10.0	10.09		ug/L		101	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*

Lab Sample ID: LCSD 580-481201/7
Matrix: Water
Analysis Batch: 481201

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			5.00	5.269		ug/L		105	80 - 122	6	14
Toluene			5.00	5.099		ug/L		102	80 - 120	7	13
Ethylbenzene			5.00	5.327		ug/L		107	80 - 120	7	14
Xylenes, Total			10.0	10.77		ug/L		108	80 - 120	6	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-481415/10
Matrix: Water
Analysis Batch: 481415

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.240	ug/L			12/27/24 12:43	1
Toluene	ND		1.00	0.390	ug/L			12/27/24 12:43	1
Ethylbenzene	ND		1.00	0.500	ug/L			12/27/24 12:43	1
Xylenes, Total	ND		2.00	0.530	ug/L			12/27/24 12:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/27/24 12:43*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*12/27/24 12:43*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*12/27/24 12:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*12/27/24 12:43*	*1*

Lab Sample ID: LCS 580-481415/5
Matrix: Water
Analysis Batch: 481415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			5.00	4.736		ug/L		95	80 - 122		
Toluene			5.00	4.663		ug/L		93	80 - 120		
Ethylbenzene			5.00	4.867		ug/L		97	80 - 120		
Xylenes, Total			10.0	10.39		ug/L		104	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 580-481415/6
Matrix: Water
Analysis Batch: 481415

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			5.00	4.641		ug/L		93	80 - 122	2	14
Toluene			5.00	4.561		ug/L		91	80 - 120	2	13
Ethylbenzene			5.00	4.767		ug/L		95	80 - 120	2	14
Xylenes, Total			10.0	10.11		ug/L		101	80 - 120	3	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 580-480893/11
Matrix: Water
Analysis Batch: 480893

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			12/19/24 15:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*77 - 123*		*12/19/24 15:22*	*1*

Lab Sample ID: LCS 580-480893/8
Matrix: Water
Analysis Batch: 480893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Gasoline			1000	1027		ug/L		103	55 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*77 - 123*

Lab Sample ID: LCSD 580-480893/9
Matrix: Water
Analysis Batch: 480893

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline			1000	1019		ug/L		102	55 - 148	1	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*77 - 123*

Lab Sample ID: MB 580-481036/11
Matrix: Water
Analysis Batch: 481036

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			12/20/24 15:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*77 - 123*		*12/20/24 15:10*	*1*

Lab Sample ID: LCS 580-481036/8
Matrix: Water
Analysis Batch: 481036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Gasoline			1000	1044		ug/L		104	55 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*77 - 123*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCSD 580-481036/9
Matrix: Water
Analysis Batch: 481036

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline			1000	1041		ug/L		104	55 - 148	0	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*77 - 123*

Lab Sample ID: MB 580-481143/10
Matrix: Water
Analysis Batch: 481143

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			12/21/24 18:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*77 - 123*		*12/21/24 18:06*	*1*

Lab Sample ID: LCS 580-481143/7
Matrix: Water
Analysis Batch: 481143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Gasoline			1000	1041		ug/L		104	55 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*77 - 123*

Lab Sample ID: LCSD 580-481143/8
Matrix: Water
Analysis Batch: 481143

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline			1000	1035		ug/L		103	55 - 148	1	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*77 - 123*

Lab Sample ID: MB 580-481149/10
Matrix: Water
Analysis Batch: 481149

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			12/22/24 06:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*77 - 123*		*12/22/24 06:30*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCS 580-481149/7
Matrix: Water
Analysis Batch: 481149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Gasoline			1000	1122		ug/L		112	55 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*77 - 123*

Lab Sample ID: LCSD 580-481149/8
Matrix: Water
Analysis Batch: 481149

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline			1000	1113		ug/L		111	55 - 148	1	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*77 - 123*

Lab Sample ID: MB 580-481411/10
Matrix: Water
Analysis Batch: 481411

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			12/27/24 12:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*77 - 123*		*12/27/24 12:43*	*1*

Lab Sample ID: LCS 580-481411/7
Matrix: Water
Analysis Batch: 481411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Gasoline			1000	966.9		ug/L		97	55 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*77 - 123*

Lab Sample ID: LCSD 580-481411/8
Matrix: Water
Analysis Batch: 481411

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline			1000	1039		ug/L		104	55 - 148	7	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*77 - 123*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 580-481179/1-A
Matrix: Water
Analysis Batch: 481337

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481179

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.0500	0.0140	ug/L		12/23/24 09:09	12/26/24 19:33	1
Benzo[a]pyrene	ND		0.100	0.0220	ug/L		12/23/24 09:09	12/26/24 19:33	1
Benzo[b]fluoranthene	ND		0.100	0.0220	ug/L		12/23/24 09:09	12/26/24 19:33	1
Benzo[k]fluoranthene	ND		0.0500	0.0120	ug/L		12/23/24 09:09	12/26/24 19:33	1
Chrysene	ND		0.100	0.0370	ug/L		12/23/24 09:09	12/26/24 19:33	1
Dibenz(a,h)anthracene	ND		0.100	0.0150	ug/L		12/23/24 09:09	12/26/24 19:33	1
Indeno[1,2,3-cd]pyrene	ND		0.0500	0.0140	ug/L		12/23/24 09:09	12/26/24 19:33	1
1-Methylnaphthalene	ND		0.100	0.0330	ug/L		12/23/24 09:09	12/26/24 19:33	1
2-Methylnaphthalene	ND		0.200	0.0390	ug/L		12/23/24 09:09	12/26/24 19:33	1
Naphthalene	ND		0.500	0.163	ug/L		12/23/24 09:09	12/26/24 19:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*68*		*29 - 150*	*12/23/24 09:09*	*12/26/24 19:33*	*1*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Lab Sample ID: MB 580-481063/1-A
Matrix: Water
Analysis Batch: 481906

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481063

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		200	91.0	ug/L		12/20/24 12:39	01/03/25 18:08	1
Motor Oil (>C24-C36)	ND		350	130	ug/L		12/20/24 12:39	01/03/25 18:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*12/20/24 12:39*	*01/03/25 18:08*	*1*

Lab Sample ID: LCS 580-481063/2-A
Matrix: Water
Analysis Batch: 481906

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (C10-C24)	4000	2892		ug/L		72	50 - 120
Motor Oil (>C24-C36)	4000	3084		ug/L		77	64 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*79*		*50 - 150*

Lab Sample ID: LCSD 580-481063/3-A
Matrix: Water
Analysis Batch: 481906

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 481063

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (C10-C24)	4000	2947		ug/L		74	50 - 120	2	26
Motor Oil (>C24-C36)	4000	3164		ug/L		79	64 - 120	3	24

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx (Continued)

Lab Sample ID: LCSD 580-481063/3-A
Matrix: Water
Analysis Batch: 481906

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 481063

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	83		50 - 150

Lab Sample ID: MB 580-481408/1-A
Matrix: Water
Analysis Batch: 481458

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481408

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		200	91.0	ug/L		12/27/24 08:12	12/27/24 18:53	1
Motor Oil (>C24-C36)	ND		350	130	ug/L		12/27/24 08:12	12/27/24 18:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	95		50 - 150	12/27/24 08:12	12/27/24 18:53	1

Lab Sample ID: LCS 580-481408/2-A
Matrix: Water
Analysis Batch: 481458

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481408

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (C10-C24)	4000	3098		ug/L		77	50 - 120
Motor Oil (>C24-C36)	4000	3378		ug/L		84	64 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	79		50 - 150

Lab Sample ID: LCSD 580-481408/3-A
Matrix: Water
Analysis Batch: 481458

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 481408

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (C10-C24)	4000	3138		ug/L		78	50 - 120	1	26
Motor Oil (>C24-C36)	4000	3508		ug/L		88	64 - 120	4	24

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	83		50 - 150

Lab Sample ID: MB 580-481409/1-A
Matrix: Water
Analysis Batch: 481577

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481409

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		200	91.0	ug/L		12/27/24 08:17	12/30/24 21:10	1
Motor Oil (>C24-C36)	ND		350	130	ug/L		12/27/24 08:17	12/30/24 21:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	64		50 - 150	12/27/24 08:17	12/30/24 21:10	1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx (Continued)

Lab Sample ID: LCS 580-481409/2-A
Matrix: Water
Analysis Batch: 481577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481409

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (C10-C24)			4000	2833		ug/L		71	50 - 120		
Motor Oil (>C24-C36)			4000	3274		ug/L		82	64 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*79*		*50 - 150*

Lab Sample ID: LCSD 580-481409/3-A
Matrix: Water
Analysis Batch: 481577

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 481409

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (C10-C24)			4000	2847		ug/L		71	50 - 120	1	26
Motor Oil (>C24-C36)			4000	3222		ug/L		81	64 - 120	2	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*77*		*50 - 150*

Lab Sample ID: MB 580-481634/1-A
Matrix: Water
Analysis Batch: 481763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481634

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		200	91.0	ug/L		12/31/24 06:44	01/02/25 19:08	1
Motor Oil (>C24-C36)	ND		350	130	ug/L		12/31/24 06:44	01/02/25 19:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*50 - 150*	*12/31/24 06:44*	*01/02/25 19:08*	*1*

Lab Sample ID: LCS 580-481634/2-A
Matrix: Water
Analysis Batch: 481763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481634

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (C10-C24)			4000	3183		ug/L		80	50 - 120		
Motor Oil (>C24-C36)			4000	3704		ug/L		93	64 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*86*		*50 - 150*

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx (Continued)

Lab Sample ID: LCSD 580-481634/3-A
Matrix: Water
Analysis Batch: 481763

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 481634

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (C10-C24)			4000	3315		ug/L		83	50 - 120	4	26
Motor Oil (>C24-C36)			4000	3768		ug/L		94	64 - 120	2	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*92*		*50 - 150*

Lab Sample ID: MB 580-481841/1-A
Matrix: Water
Analysis Batch: 481903

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		200	91.0	ug/L		01/03/25 08:30	01/03/25 23:09	1
Motor Oil (>C24-C36)	ND		350	130	ug/L		01/03/25 08:30	01/03/25 23:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*98*		*50 - 150*	*01/03/25 08:30*	*01/03/25 23:09*	*1*

Lab Sample ID: LCS 580-481841/2-A
Matrix: Water
Analysis Batch: 481903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481841

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (C10-C24)			4000	3028		ug/L		76	50 - 120		
Motor Oil (>C24-C36)			4000	3301		ug/L		83	64 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*83*		*50 - 150*

Lab Sample ID: LCSD 580-481841/3-A
Matrix: Water
Analysis Batch: 481903

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 481841

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (C10-C24)			4000	3030		ug/L		76	50 - 120	0	26
Motor Oil (>C24-C36)			4000	3356		ug/L		84	64 - 120	2	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*85*		*50 - 150*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 350-4090/25-A
Matrix: Water
Analysis Batch: 4138

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4090

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.500	0.0400	ug/L		12/23/24 17:34	12/26/24 15:13	1

Lab Sample ID: LCS 350-4090/26-A
Matrix: Water
Analysis Batch: 4138

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 4090

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	1000	979.9		ug/L		98	80 - 120

Lab Sample ID: 580-146719-D-8-B MS
Matrix: Water
Analysis Batch: 4138

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 4090

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		1000	989.9		ug/L		99	80 - 120

Lab Sample ID: 580-146719-D-8-C MSD
Matrix: Water
Analysis Batch: 4138

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 4090

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		1000	1003		ug/L		100	80 - 120	1	20

Lab Sample ID: MB 350-4073/23-B
Matrix: Water
Analysis Batch: 4155

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 4128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.01505	J	0.100	0.0133	mg/L		12/26/24 16:42	12/27/24 11:54	1
Manganese	0.0004888	J	0.00200	0.000459	mg/L		12/26/24 16:42	12/27/24 11:54	1

Lab Sample ID: LCS 350-4073/24-B
Matrix: Water
Analysis Batch: 4155

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 4128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	20.0	19.24		mg/L		96	80 - 120
Manganese	1.00	0.9359		mg/L		94	80 - 120

Lab Sample ID: 580-146612-K-9-C MS
Matrix: Water
Analysis Batch: 4155

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 4128

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	ND		20.0	19.36		mg/L		97	80 - 120
Manganese	8.16	B	1.00	8.625	4	mg/L		47	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-146612-K-9-D MSD
Matrix: Water
Analysis Batch: 4155

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 4128

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	ND		20.0	19.10		mg/L		96	80 - 120	1	20
Manganese	8.16	B	1.00	8.495	4	mg/L		34	80 - 120	2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-481954/3
Matrix: Water
Analysis Batch: 481954

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1500	800	ug/L			01/03/25 21:37	1

Lab Sample ID: LCS 580-481954/4
Matrix: Water
Analysis Batch: 481954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	50000	50620		ug/L		101	90 - 110

Lab Sample ID: LCSD 580-481954/5
Matrix: Water
Analysis Batch: 481954

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	50000	50650		ug/L		101	90 - 110	0	15

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-680024/20
Matrix: Water
Analysis Batch: 680024

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.100	0.0440	mg/L			12/30/24 14:06	1

Lab Sample ID: MB 280-680024/63
Matrix: Water
Analysis Batch: 680024

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.100	0.0440	mg/L			12/30/24 14:59	1

Lab Sample ID: LCS 280-680024/18
Matrix: Water
Analysis Batch: 680024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	0.9976		mg/L		100	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 280-680024/61
Matrix: Water
Analysis Batch: 680024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N			1.00	0.9984		mg/L		100	90 - 110		

Lab Sample ID: LCSD 280-680024/19
Matrix: Water
Analysis Batch: 680024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N			1.00	0.9907		mg/L		99	90 - 110	1	10

Lab Sample ID: LCSD 280-680024/62
Matrix: Water
Analysis Batch: 680024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N			1.00	1.001		mg/L		100	90 - 110	0	10

Lab Sample ID: 280-201012-B-2 MS
Matrix: Water
Analysis Batch: 680024

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N	ND		2.00	2.167		mg/L		108	90 - 110		

Lab Sample ID: 280-201012-B-2 MSD
Matrix: Water
Analysis Batch: 680024

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND		2.00	2.179		mg/L		109	90 - 110	1	10

Lab Sample ID: 280-201012-B-3 MS
Matrix: Water
Analysis Batch: 680024

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N	ND		2.00	2.116		mg/L		106	90 - 110		

Lab Sample ID: 280-201012-B-3 MSD
Matrix: Water
Analysis Batch: 680024

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND		2.00	2.123		mg/L		106	90 - 110	0	10

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-307
Date Collected: 12/16/24 10:04
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	480897	TL1	EET SEA	12/19/24 20:45
Total/NA	Analysis	NWTPH-Gx		1	480893	TL1	EET SEA	12/19/24 20:45
Total/NA	Prep	3510C			481063	EM	EET SEA	12/20/24 12:39
Total/NA	Analysis	NWTPH-Dx		1	481906	SW	EET SEA	01/03/25 19:09
Dissolved	Filtration	FILTRATION			4073	MCMS	EET SSM	12/23/24 11:37
Dissolved	Prep	3005A			4128	J1H	EET SSM	12/26/24 16:42
Dissolved	Analysis	6020B		5	4155	CW	EET SSM	12/27/24 13:26
Total/NA	Analysis	300.0		1	481954	MLT	EET SEA	01/04/25 05:33
Total/NA	Analysis	353.2		1	680024	BCR	EET DEN	12/30/24 14:37

Client Sample ID: TES-MW-1
Date Collected: 12/16/24 10:12
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	480897	TL1	EET SEA	12/19/24 16:53
Total/NA	Analysis	NWTPH-Gx		1	480893	TL1	EET SEA	12/19/24 16:53
Total/NA	Prep	3510C			481063	EM	EET SEA	12/20/24 12:39
Total/NA	Analysis	NWTPH-Dx		1	481906	SW	EET SEA	01/03/25 19:29

Client Sample ID: MW-308
Date Collected: 12/16/24 10:31
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	480897	TL1	EET SEA	12/19/24 17:16
Total/NA	Analysis	NWTPH-Gx		1	480893	TL1	EET SEA	12/19/24 17:16
Dissolved	Filtration	FILTRATION			4073	MCMS	EET SSM	12/23/24 11:37
Dissolved	Prep	3005A			4128	J1H	EET SSM	12/26/24 16:42
Dissolved	Analysis	6020B		5	4155	CW	EET SSM	12/27/24 13:29
Total/NA	Analysis	300.0		1	481954	MLT	EET SEA	01/04/25 05:45
Total/NA	Analysis	353.2		1	680024	BCR	EET DEN	12/30/24 14:38

Client Sample ID: MW-101
Date Collected: 12/16/24 10:56
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481040	AA	EET SEA	12/20/24 16:24
Total/NA	Analysis	NWTPH-Gx		1	481036	AA	EET SEA	12/20/24 16:24
Total/NA	Prep	3510C	RA		481408	EM	EET SEA	12/27/24 08:12
Total/NA	Analysis	NWTPH-Dx	RA	1	481577	SW	EET SEA	12/30/24 16:29

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-102
Date Collected: 12/16/24 11:02
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	480897	TL1	EET SEA	12/19/24 17:39
Total/NA	Analysis	NWTPH-Gx		1	480893	TL1	EET SEA	12/19/24 17:39
Total/NA	Prep	3510C			481063	EM	EET SEA	12/20/24 12:39
Total/NA	Analysis	NWTPH-Dx		1	481906	SW	EET SEA	01/03/25 20:09

Client Sample ID: TX-06A
Date Collected: 12/16/24 11:39
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	480897	TL1	EET SEA	12/19/24 18:03
Total/NA	Analysis	NWTPH-Gx		1	480893	TL1	EET SEA	12/19/24 18:03
Total/NA	Prep	3510C			481063	EM	EET SEA	12/20/24 12:39
Total/NA	Analysis	NWTPH-Dx		1	481906	SW	EET SEA	01/03/25 20:29

Client Sample ID: MW-213
Date Collected: 12/16/24 11:41
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	480897	TL1	EET SEA	12/19/24 20:21
Total/NA	Analysis	NWTPH-Gx		1	480893	TL1	EET SEA	12/19/24 20:21
Total/NA	Prep	3510C			481179	EM	EET SEA	12/23/24 09:09
Total/NA	Analysis	8270E SIM		1	481659	VLF	EET SEA	12/31/24 19:09
Total/NA	Prep	3510C			481063	EM	EET SEA	12/20/24 12:39
Total/NA	Analysis	NWTPH-Dx		1	481906	SW	EET SEA	01/03/25 20:49

Client Sample ID: MW-214
Date Collected: 12/16/24 12:08
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	480897	TL1	EET SEA	12/19/24 18:26
Total/NA	Analysis	NWTPH-Gx		1	480893	TL1	EET SEA	12/19/24 18:26
Total/NA	Prep	3510C			481179	EM	EET SEA	12/23/24 09:09
Total/NA	Analysis	8270E SIM		1	481659	VLF	EET SEA	12/31/24 19:34
Total/NA	Prep	3510C			481063	EM	EET SEA	12/20/24 12:39
Total/NA	Analysis	NWTPH-Dx		1	481906	SW	EET SEA	01/03/25 21:09

Client Sample ID: MW-203
Date Collected: 12/16/24 12:16
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NWTPH-Gx		1	480893	TL1	EET SEA	12/19/24 18:49

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-203
Date Collected: 12/16/24 12:16
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			481063	EM	EET SEA	12/20/24 12:39
Total/NA	Analysis	NWTPH-Dx		1	481906	SW	EET SEA	01/03/25 21:49
Dissolved	Filtration	FILTRATION			4073	MCMS	EET SSM	12/23/24 11:37
Dissolved	Prep	3005A			4128	J1H	EET SSM	12/26/24 16:42
Dissolved	Analysis	6020B		5	4155	CW	EET SSM	12/27/24 13:09
Total/NA	Analysis	300.0		1	481954	MLT	EET SEA	01/04/25 05:57
Total/NA	Analysis	353.2		1	680024	BCR	EET DEN	12/30/24 14:39

Client Sample ID: MW-206A
Date Collected: 12/16/24 12:42
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	480897	TL1	EET SEA	12/19/24 19:12
Total/NA	Analysis	NWTPH-Gx		1	480893	TL1	EET SEA	12/19/24 19:12
Total/NA	Prep	3510C			481063	EM	EET SEA	12/20/24 12:39
Total/NA	Analysis	NWTPH-Dx		1	481906	SW	EET SEA	01/03/25 22:09

Client Sample ID: MW-204
Date Collected: 12/16/24 12:51
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	480897	TL1	EET SEA	12/19/24 19:35
Total/NA	Analysis	NWTPH-Gx		1	480893	TL1	EET SEA	12/19/24 19:35
Total/NA	Prep	3510C			481063	EM	EET SEA	12/20/24 12:39
Total/NA	Analysis	NWTPH-Dx		1	481906	SW	EET SEA	01/03/25 22:29

Client Sample ID: MW-313
Date Collected: 12/17/24 08:38
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481040	AA	EET SEA	12/20/24 16:01
Total/NA	Analysis	NWTPH-Gx		1	481036	AA	EET SEA	12/20/24 16:01
Total/NA	Prep	3510C			481063	EM	EET SEA	12/20/24 12:39
Total/NA	Analysis	NWTPH-Dx		1	481906	SW	EET SEA	01/03/25 22:49

Client Sample ID: MW-302
Date Collected: 12/17/24 08:46
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481154	K1K	EET SEA	12/22/24 07:16
Total/NA	Analysis	NWTPH-Gx		1	481149	K1K	EET SEA	12/22/24 07:16

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-302
Date Collected: 12/17/24 08:46
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			481063	EM	EET SEA	12/20/24 12:39
Total/NA	Analysis	NWTPH-Dx		1	481906	SW	EET SEA	01/03/25 23:09
Dissolved	Filtration	FILTRATION			4073	MCMS	EET SSM	12/23/24 11:37
Dissolved	Prep	3005A			4128	J1H	EET SSM	12/26/24 16:42
Dissolved	Analysis	6020B		5	4155	CW	EET SSM	12/27/24 12:54
Total/NA	Analysis	300.0		1	481954	MLT	EET SEA	01/04/25 06:09
Total/NA	Analysis	353.2		1	680024	BCR	EET DEN	12/30/24 14:41

Client Sample ID: MW-315
Date Collected: 12/17/24 09:01
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481154	K1K	EET SEA	12/22/24 07:39
Total/NA	Analysis	NWTPH-Gx		1	481149	K1K	EET SEA	12/22/24 07:39
Total/NA	Prep	3510C			481063	EM	EET SEA	12/20/24 12:39
Total/NA	Analysis	NWTPH-Dx		1	481906	SW	EET SEA	01/03/25 23:29

Client Sample ID: MW-312
Date Collected: 12/17/24 09:25
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481154	K1K	EET SEA	12/22/24 08:03
Total/NA	Analysis	NWTPH-Gx		1	481149	K1K	EET SEA	12/22/24 08:03
Dissolved	Filtration	FILTRATION			4073	MCMS	EET SSM	12/23/24 11:37
Dissolved	Prep	3005A			4128	J1H	EET SSM	12/26/24 16:42
Dissolved	Analysis	6020B		5	4155	CW	EET SSM	12/27/24 13:13
Total/NA	Analysis	300.0		1	481954	MLT	EET SEA	01/04/25 06:21
Total/NA	Analysis	353.2		1	680024	BCR	EET DEN	12/30/24 14:42

Client Sample ID: MW-311
Date Collected: 12/17/24 09:27
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481154	K1K	EET SEA	12/22/24 09:12
Total/NA	Analysis	NWTPH-Gx		1	481149	K1K	EET SEA	12/22/24 09:12
Dissolved	Filtration	FILTRATION			4073	MCMS	EET SSM	12/23/24 11:37
Dissolved	Prep	3005A			4128	J1H	EET SSM	12/26/24 16:42
Dissolved	Analysis	6020B		5	4155	CW	EET SSM	12/27/24 13:16
Total/NA	Analysis	300.0		1	481954	MLT	EET SEA	01/04/25 06:33
Total/NA	Analysis	353.2		1	680024	BCR	EET DEN	12/30/24 14:43

Client Sample ID: TX-03A

Lab Sample ID: 580-146726-17

Date Collected: 12/17/24 10:05

Matrix: Water

Date Received: 12/18/24 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	481040	AA	EET SEA	12/20/24 20:15
Total/NA	Analysis	NWTPH-Gx		10	481149	K1K	EET SEA	12/22/24 10:46
Total/NA	Prep	3510C			481063	EM	EET SEA	12/20/24 12:39
Total/NA	Analysis	NWTPH-Dx		1	481906	SW	EET SEA	01/03/25 23:49
Dissolved	Filtration	FILTRATION			4073	MCMS	EET SSM	12/23/24 11:37
Dissolved	Prep	3005A			4128	J1H	EET SSM	12/26/24 16:42
Dissolved	Analysis	6020B		5	4155	CW	EET SSM	12/27/24 12:58
Total/NA	Analysis	300.0		1	481954	MLT	EET SEA	01/04/25 07:09
Total/NA	Analysis	353.2		1	680024	BCR	EET DEN	12/30/24 15:04

Client Sample ID: MW-304

Lab Sample ID: 580-146726-18

Date Collected: 12/17/24 10:06

Matrix: Water

Date Received: 12/18/24 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	481040	AA	EET SEA	12/20/24 18:20
Total/NA	Analysis	NWTPH-Gx		10	481149	K1K	EET SEA	12/22/24 10:22
Total/NA	Prep	3510C			481063	EM	EET SEA	12/20/24 12:39
Total/NA	Analysis	NWTPH-Dx		1	481906	SW	EET SEA	01/04/25 00:09
Dissolved	Filtration	FILTRATION			4073	MCMS	EET SSM	12/23/24 11:37
Dissolved	Prep	3005A			4128	J1H	EET SSM	12/26/24 16:42
Dissolved	Analysis	6020B		5	4155	CW	EET SSM	12/27/24 13:01
Total/NA	Analysis	300.0		1	481954	MLT	EET SEA	01/04/25 07:20
Total/NA	Analysis	353.2		1	680024	BCR	EET DEN	12/30/24 15:06

Client Sample ID: MW-303

Lab Sample ID: 580-146726-19

Date Collected: 12/17/24 10:36

Matrix: Water

Date Received: 12/18/24 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	481040	AA	EET SEA	12/20/24 19:06
Total/NA	Prep	3510C			481063	EM	EET SEA	12/20/24 12:39
Total/NA	Analysis	NWTPH-Dx		1	481906	SW	EET SEA	01/04/25 00:29
Total/NA	Analysis	300.0		1	481954	MLT	EET SEA	01/04/25 07:32

Client Sample ID: MW-310

Lab Sample ID: 580-146726-20

Date Collected: 12/17/24 10:43

Matrix: Water

Date Received: 12/18/24 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481154	K1K	EET SEA	12/22/24 09:36
Total/NA	Analysis	NWTPH-Gx		1	481149	K1K	EET SEA	12/22/24 09:36
Total/NA	Prep	3510C			481063	EM	EET SEA	12/20/24 12:39
Total/NA	Analysis	NWTPH-Dx		1	481906	SW	EET SEA	01/04/25 00:49

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-310
Date Collected: 12/17/24 10:43
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Filtration	FILTRATION			4073	MCMS	EET SSM	12/23/24 11:37
Dissolved	Prep	3005A			4128	J1H	EET SSM	12/26/24 16:42
Dissolved	Analysis	6020B		5	4155	CW	EET SSM	12/27/24 12:38
Total/NA	Analysis	300.0		1	481954	MLT	EET SEA	01/04/25 07:44
Total/NA	Analysis	353.2		1	680024	BCR	EET DEN	12/30/24 15:07

Client Sample ID: MW-301
Date Collected: 12/17/24 11:04
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481154	K1K	EET SEA	12/22/24 09:59
Total/NA	Analysis	NWTPH-Gx		1	481149	K1K	EET SEA	12/22/24 09:59

Client Sample ID: SH-04
Date Collected: 12/17/24 11:45
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481040	AA	EET SEA	12/20/24 17:10
Total/NA	Analysis	NWTPH-Gx		1	481036	AA	EET SEA	12/20/24 17:10
Total/NA	Prep	3510C			481063	EM	EET SEA	12/20/24 12:39
Total/NA	Analysis	NWTPH-Dx		1	481906	SW	EET SEA	01/04/25 01:30

Client Sample ID: MW-309
Date Collected: 12/17/24 11:48
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481040	AA	EET SEA	12/20/24 16:47
Total/NA	Analysis	NWTPH-Gx		1	481036	AA	EET SEA	12/20/24 16:47
Total/NA	Prep	3510C			481063	EM	EET SEA	12/20/24 12:39
Total/NA	Analysis	NWTPH-Dx		1	481906	SW	EET SEA	01/04/25 01:49

Client Sample ID: MW-112A
Date Collected: 12/17/24 12:29
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481201	AA	EET SEA	12/23/24 18:36
Total/NA	Analysis	NWTPH-Gx		1	481411	AA	EET SEA	12/27/24 20:26
Total/NA	Prep	3510C			481063	EM	EET SEA	12/20/24 12:39
Total/NA	Analysis	NWTPH-Dx		1	481906	SW	EET SEA	01/04/25 02:10

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: TX-04
Date Collected: 12/17/24 12:31
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481148	TL1	EET SEA	12/21/24 21:12
Total/NA	Analysis	NWTPH-Gx		1	481143	TL1	EET SEA	12/21/24 21:12
Total/NA	Prep	3510C			481063	EM	EET SEA	12/20/24 12:39
Total/NA	Analysis	NWTPH-Dx		1	481906	SW	EET SEA	01/04/25 02:30

Client Sample ID: MW-105
Date Collected: 12/17/24 13:47
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481148	TL1	EET SEA	12/21/24 21:35
Total/NA	Analysis	NWTPH-Gx		1	481143	TL1	EET SEA	12/21/24 21:35
Total/NA	Prep	3510C			481409	EM	EET SEA	12/27/24 08:17
Total/NA	Analysis	NWTPH-Dx		1	481577	SW	EET SEA	12/30/24 23:10
Total Recoverable	Prep	3005A			4090	J1H	EET SSM	12/23/24 17:34
Total Recoverable	Analysis	6020B		5	4138	CW	EET SSM	12/26/24 16:12

Client Sample ID: MW-114
Date Collected: 12/17/24 13:54
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481148	TL1	EET SEA	12/21/24 21:58
Total/NA	Analysis	NWTPH-Gx		1	481143	TL1	EET SEA	12/21/24 21:58
Total/NA	Prep	3510C	RE		481841	EM	EET SEA	01/03/25 08:30
Total/NA	Analysis	NWTPH-Dx	RE	1	481903	SW	EET SEA	01/04/25 00:09

Client Sample ID: MW-113
Date Collected: 12/17/24 14:13
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481148	TL1	EET SEA	12/22/24 01:27
Total/NA	Analysis	NWTPH-Gx		1	481143	TL1	EET SEA	12/22/24 01:27
Total/NA	Prep	3510C			481409	EM	EET SEA	12/27/24 08:17
Total/NA	Analysis	NWTPH-Dx		1	481577	SW	EET SEA	12/30/24 23:50

Client Sample ID: MW-115
Date Collected: 12/17/24 14:23
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481148	TL1	EET SEA	12/22/24 00:41
Total/NA	Analysis	NWTPH-Gx		1	481143	TL1	EET SEA	12/22/24 00:41

Client Sample ID: MW-115
Date Collected: 12/17/24 14:23
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			481409	EM	EET SEA	12/27/24 08:17
Total/NA	Analysis	NWTPH-Dx		1	481577	SW	EET SEA	12/31/24 00:10

Client Sample ID: MW-314
Date Collected: 12/17/24 15:24
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481148	TL1	EET SEA	12/22/24 01:04
Total/NA	Analysis	NWTPH-Gx		1	481143	TL1	EET SEA	12/22/24 01:04
Total/NA	Prep	3510C			481409	EM	EET SEA	12/27/24 08:17
Total/NA	Analysis	NWTPH-Dx		1	481577	SW	EET SEA	12/31/24 00:30

Client Sample ID: MW-202
Date Collected: 12/18/24 08:42
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-31
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481415	AA	EET SEA	12/27/24 20:49
Total/NA	Analysis	NWTPH-Gx		1	481411	AA	EET SEA	12/27/24 20:49
Total/NA	Prep	3510C			481409	EM	EET SEA	12/27/24 08:17
Total/NA	Analysis	NWTPH-Dx		1	481577	SW	EET SEA	12/31/24 00:50
Dissolved	Filtration	FILTRATION			4073	MCMS	EET SSM	12/23/24 11:37
Dissolved	Prep	3005A			4128	J1H	EET SSM	12/26/24 16:42
Dissolved	Analysis	6020B		5	4155	CW	EET SSM	12/27/24 13:19
Total/NA	Analysis	300.0		1	481954	MLT	EET SEA	01/04/25 07:56
Total/NA	Analysis	353.2		1	680024	BCR	EET DEN	12/30/24 15:08

Client Sample ID: MW-201
Date Collected: 12/18/24 09:07
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-32
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481148	TL1	EET SEA	12/21/24 22:21
Total/NA	Analysis	NWTPH-Gx		1	481143	TL1	EET SEA	12/21/24 22:21
Total/NA	Prep	3510C			481409	EM	EET SEA	12/27/24 08:17
Total/NA	Analysis	NWTPH-Dx		1	481577	SW	EET SEA	12/31/24 01:10

Client Sample ID: MW-111
Date Collected: 12/18/24 09:41
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-33
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481148	TL1	EET SEA	12/21/24 23:54
Total/NA	Analysis	NWTPH-Gx		1	481143	TL1	EET SEA	12/21/24 23:54

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Client Sample ID: MW-111
Date Collected: 12/18/24 09:41
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-33
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			481634	EM	EET SEA	12/31/24 06:44
Total/NA	Analysis	NWTPH-Dx		1	481763	SW	EET SEA	01/03/25 02:29

Client Sample ID: MW-104
Date Collected: 12/18/24 10:05
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NWTPH-Gx		1	481143	TL1	EET SEA	12/21/24 23:31
Total/NA	Prep	3510C			481634	EM	EET SEA	12/31/24 06:44
Total/NA	Analysis	NWTPH-Dx		1	481763	SW	EET SEA	01/03/25 02:49
Total Recoverable	Prep	3005A			4090	J1H	EET SSM	12/23/24 17:34
Total Recoverable	Analysis	6020B		5	4138	CW	EET SSM	12/26/24 16:15

Client Sample ID: MW-05
Date Collected: 12/18/24 10:34
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-35
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481148	TL1	EET SEA	12/21/24 23:08
Total/NA	Analysis	NWTPH-Gx		1	481143	TL1	EET SEA	12/21/24 23:08
Total/NA	Prep	3510C			481634	EM	EET SEA	12/31/24 06:44
Total/NA	Analysis	NWTPH-Dx		1	481763	SW	EET SEA	01/03/25 03:09

Client Sample ID: TB-1
Date Collected: 12/18/24 11:00
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-36
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	481148	TL1	EET SEA	12/21/24 22:45

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: GHD Services Inc.
Job ID: 580-146726-1
Project/Site: Shell - 2555 13th Avenue

Laboratory: Eurofins Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4167	07-07-25
Washington	State	C788-24	07-13-25

Laboratory: Eurofins Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4025	01-08-25
Washington	State	C583	08-03-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	02-19-25
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	07-07-25
Florida	NELAP	E87575	06-30-25
Louisiana (All)	NELAP	03073	06-30-25
Maine	State	WA01273	05-02-26
New Jersey	NELAP	WA014	06-30-25
New York	NELAP	11662	04-01-25
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	01-04-26
Washington	State	C788-23a	07-13-25
Wisconsin	State	399133460	07-31-25

Sample Summary

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-146726-1	MW-307	Water	12/16/24 10:04	12/18/24 11:36
580-146726-2	TES-MW-1	Water	12/16/24 10:12	12/18/24 11:36
580-146726-3	MW-308	Water	12/16/24 10:31	12/18/24 11:36
580-146726-4	MW-101	Water	12/16/24 10:56	12/18/24 11:36
580-146726-5	MW-102	Water	12/16/24 11:02	12/18/24 11:36
580-146726-6	TX-06A	Water	12/16/24 11:39	12/18/24 11:36
580-146726-7	MW-213	Water	12/16/24 11:41	12/18/24 11:36
580-146726-8	MW-214	Water	12/16/24 12:08	12/18/24 11:36
580-146726-9	MW-203	Water	12/16/24 12:16	12/18/24 11:36
580-146726-10	MW-206A	Water	12/16/24 12:42	12/18/24 11:36
580-146726-11	MW-204	Water	12/16/24 12:51	12/18/24 11:36
580-146726-12	MW-313	Water	12/17/24 08:38	12/18/24 11:36
580-146726-13	MW-302	Water	12/17/24 08:46	12/18/24 11:36
580-146726-14	MW-315	Water	12/17/24 09:01	12/18/24 11:36
580-146726-15	MW-312	Water	12/17/24 09:25	12/18/24 11:36
580-146726-16	MW-311	Water	12/17/24 09:27	12/18/24 11:36
580-146726-17	TX-03A	Water	12/17/24 10:05	12/18/24 11:36
580-146726-18	MW-304	Water	12/17/24 10:06	12/18/24 11:36
580-146726-19	MW-303	Water	12/17/24 10:36	12/18/24 11:36
580-146726-20	MW-310	Water	12/17/24 10:43	12/18/24 11:36
580-146726-21	MW-301	Water	12/17/24 11:04	12/18/24 11:36
580-146726-22	SH-04	Water	12/17/24 11:45	12/18/24 11:36
580-146726-23	MW-309	Water	12/17/24 11:48	12/18/24 11:36
580-146726-24	MW-112A	Water	12/17/24 12:29	12/18/24 11:36
580-146726-25	TX-04	Water	12/17/24 12:31	12/18/24 11:36
580-146726-26	MW-105	Water	12/17/24 13:47	12/18/24 11:36
580-146726-27	MW-114	Water	12/17/24 13:54	12/18/24 11:36
580-146726-28	MW-113	Water	12/17/24 14:13	12/18/24 11:36
580-146726-29	MW-115	Water	12/17/24 14:23	12/18/24 11:36
580-146726-30	MW-314	Water	12/17/24 15:24	12/18/24 11:36
580-146726-31	MW-202	Water	12/18/24 08:42	12/18/24 11:36
580-146726-32	MW-201	Water	12/18/24 09:07	12/18/24 11:36
580-146726-33	MW-111	Water	12/18/24 09:41	12/18/24 11:36
580-146726-34	MW-104	Water	12/18/24 10:05	12/18/24 11:36
580-146726-35	MW-05	Water	12/18/24 10:34	12/18/24 11:36
580-146726-36	TB-1	Water	12/18/24 11:00	12/18/24 11:36

Shell Oil Products US Chain Of Custody Record

1/6/2025

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:		
☐ SGW FDG	☐ PIPELINE	☐ RETAIL
☐ CHEMICALS	☐ CONSULTANT	☐ LUBES
☐ TRANSPORTATION	☐ OTHER _____	

Print Bill To Contact Name:	PlaNet Site or Project ID	☐ CHECK IF NO INCIDENT # APPLIES
		DATE: 12-18-24
PO #	GSAP Project ID	PAGE: 1 of 4

SAMPLING COMPANY:	LOG CODE:	SITE ADDRESS: Street and City	State	GHD Project / Task Number:
Blaine Tech Services, Inc	BTSS	2555 13th Avenue	WA	12631170

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway

TELEPHONE:	FAX:	Bill To Contact E-MAIL:
(425) 327-4585		emily.blakeway@ghd.com

EDF DELIVERABLE TO (Name, Company, Office Location):	PHONE NO.:	E-MAIL:	GHD Other ID
Emily Blakeway, GHD, WA	(425) 327-4585	emily.blakeway@ghd.com	

SAMPLER NAME(S) (Print): Lydia Johnson, Mac Hiller

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED
- ☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

UNIT COST: 8260C BTEX; NWTPH-Dx; 8270D SIM PAHs; 300.0 Sulfate

NON-UNIT COST: NWTPH-Gx; 6020A Total Lead; 353.2 Nitrate & Nitrite; 6020A Diss. Iron & Manganese (lab filtered)

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	8260C BTEX	NWTPH-Dx	8270D SIM PAHs	300.0 Sulfate	NWTPH-Gx	6020A Total Lead	353.2 Nitrate & Nitrite	6020A Diss. Iron & Manganese (lab filtered)
	MW-307	12/16/24	1004	GW	X		X			9	X	X		X	X		X	X
	TES-MW-1		1012		X					6	X	X			X			
	MW-308		1031		X		X			7	X			X	X		X	X
	MW-101		1056		X					6	X	X		J	X			
	MW-102		1102		X					6	X	X			X			
	TX-06A		1139		X					6	X	X			X			
	MW-213		1141		X					8	X	X	X		X			
	MW-214		1208		X					8	X	X	X		X			
	MW-203		1216		X		X			9		X		X	X		X	X
	MW-206A		1242		X					8	X	X			X			

580-146726 Chain of Custody

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	12-18-24 1136 EEtu	12-18-24	1136
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:			Print Bill To Contact Name:	PlaNet Site or Project ID	☐ CHECK IF NO INCIDENT # APPLIES
☐ SGW FDG	☐ PIPELINE	☐ RETAIL			DATE: 12-18-24
☐ CHEMICALS	☐ CONSULTANT	☐ LUBES	PO #	GSAP Project ID	PAGE: 2 of 4
☐ TRANSPORTATION	☐ OTHER _____				

SAMPLING COMPANY:	LOG CODE:	SITE ADDRESS: Street and City	State	GHD Project / Task Number:
Blaine Tech Services, Inc	BTSS	2555 13th Avenue	WA	12631170

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway

TELEPHONE:	FAX:	Bill To Contact E-MAIL:
(425) 327-4585		emily.blakeway@ghd.com

EDF DELIVERABLE TO (Name, Company, Office Location):	PHONE NO.:	E-MAIL:	GHD Other ID
Emily Blakeway, GHD, WA	(425) 327-4585	emily.blakeway@ghd.com	

SAMPLER NAME(S) (Print): Lydia Johnson, Mac Miller

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED
- ☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	PRESERVATIVE HNO3	PRESERVATIVE H2SO4	PRESERVATIVE NONE	PRESERVATIVE OTHER	NO. OF CONT.	UNIT COST: 8260C BTEX	UNIT COST: NWTPH-Dx	UNIT COST: 8270D SIM PAHs	UNIT COST: 300.0 Sulfate	NON-UNIT COST: NWTPH-Gx	NON-UNIT COST: 6020A Total Lead	NON-UNIT COST: 353.2 Nitrate & Nitrite	NON-UNIT COST: 6020A Diss. Iron & Manganese (lab filtered)
	MW-204	12-16-24	1251	GW	X					6	X	X			X			
	MW-313	12-17-24	0838		X					6	X	X			X			
	MW-302		0846		X		X			9	X	X		X	X		X	X
	MW-315		0907		X					6	X	X			X			
	MW-312		0925		X		X			7	X			X	X		X	X
	MW-311		0927		X		X			7	X			X	X		X	X
	TX-03A		1005		X		X			9	X	X		X	X		X	X
	MW-304		1006		X		X			9	X	X		X	X		X	X
	MW-303		1036		X					6	X	X		X				
	MW-310		1043		X		X			9	X	X		X	X		X	X

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

Relinquished by: (Signature)	Received by: (Signature)	Date: 12-18-24	Time: 1136
Relinquished by: (Signature)	Received by: (Signature)	Date: 12-18-24	Time: 1136
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

1/6/2025

Shell Oil Products US Chain Of Custody Record

1/6/2025

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:		
☐ SGW FDG	☐ PIPELINE	☐ RETAIL
☐ CHEMICALS	☐ CONSULTANT	☐ LUBES
☐ TRANSPORTATION	☐ OTHER _____	

Print Bill To Contact Name:	PlaNet Site or Project ID	☐ CHECK IF NO INCIDENT # APPLIES
		DATE: 12-18-24
PO #	GSAP Project ID	PAGE: 3 of 4

SAMPLING COMPANY:	LOG CODE:	SITE ADDRESS: Street and City	State	GHD Project / Task Number:
Blaine Tech Services, Inc	BTSS	2555 13th Avenue	WA	12631170

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway

TELEPHONE:	FAX:	Bill To Contact E-MAIL:
(425) 327-4585		emily.blakeway@ghd.com

EDF DELIVERABLE TO (Name, Company, Office Location):	PHONE NO.:	E-MAIL:	GHD Other ID
Emily Blakeway, GHD, WA	(425) 327-4585	emily.blakeway@ghd.com	

SAMPLER NAME(S) (Print): Lyllian Johnson, Mac Hiller

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C°	Cooler #1	Cooler #2	Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED
- ☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	UNIT COST: 8260C BTEX	NWTPH-Dx	8270D SIM PAHs	300.0 Sulfate	NON-UNIT COST: NWTPH-Gx	6020A Total Lead	353.2 Nitrate & Nitrite	6020A Diss. Iron & Manganese (lab filtered)	Container PID Readings or Laboratory Notes
	MW-301	12-17-24	1104	GW	X					4	X				X				
	SH-64		1145		X					6	X	X			X				
	MW-309		1148		X					6	X	X			X				
	MW-112A		1229		X					6	X	X			X				
	TX-64		1231		X					6	X	X			X				
	MW-105		1347		X	X				7	X	X			X	X			
	MW-114		1354		X					6	X	X			X				
	MW-113		1413		X					6	X	X			X				
	MW-115		1423		X					6	X	X			X				
	MW-314		1524		X					6	X	X			X				

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		12-18-24	1136
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		12-18-24	1136
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

Shell Oil Products US Chain Of Custody Record

1/6/2025

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:		
☐ SGW FDG	☐ PIPELINE	☐ RETAIL
☐ CHEMICALS	☐ CONSULTANT	☐ LUBES
☐ TRANSPORTATION	☐ OTHER _____	

Print Bill To Contact Name:	PlaNet Site or Project ID
PO #	**GSAP Project ID**

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 12-18-24

PAGE: 4 of 4

SAMPLING COMPANY:	LOG CODE:
Blaine Tech Services, Inc	BTSS

SITE ADDRESS: Street and City	State	GHD Project / Task Number:
2555 13th Avenue	WA	12631170

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway

TELEPHONE:	FAX:	Bill To Contact E-MAIL:
(425) 327-4585		emily.blakeway@ghd.com

EDF DELIVERABLE TO (Name, Company, Office Location):	PHONE NO.:	E-MAIL:	GHD Other ID
Emily Blakeway, GHD, WA	(425) 327-4585	emily.blakeway@ghd.com	

SAMPLER NAME(S) (Print): Lydia Johnson, Mac Hiller

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☐ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

UNIT COST: 8260C BTEX; NWTPH-Dx; 8270D SIM PAHs; 300.0 Sulfate

NON-UNIT COST: NWTPH-Gx; 6020A Total Lead; 353.2 Nitrate & Nitrite; 6020A Diss. Iron & Manganese (lab filtered)

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

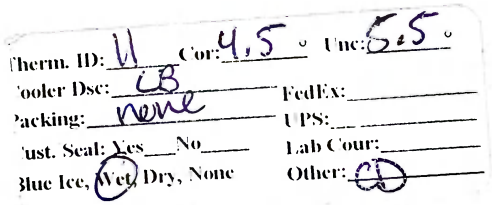
Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	8260C BTEX	NWTPH-Dx	8270D SIM PAHs	300.0 Sulfate	NWTPH-Gx	6020A Total Lead	353.2 Nitrate & Nitrite	6020A Diss. Iron & Manganese (lab filtered)
	MW-202	12-18-24	0842	GW	X		X			9	X	X		X	X		X	X
	MW-201		0907		X					6	X	X			X			
	MW-111		0941		X					6	X	X			X			
	MW-104		1005		X	X				7		X			X	X		
	MW-05		1034		X					6	X	X			X			
	TB-1		1100		X					2	X							

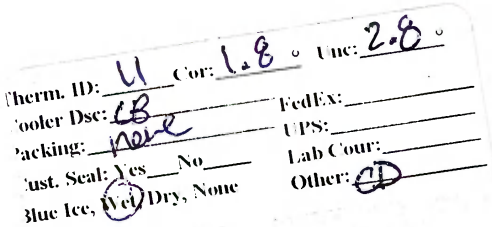
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		12-18-24	1136
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

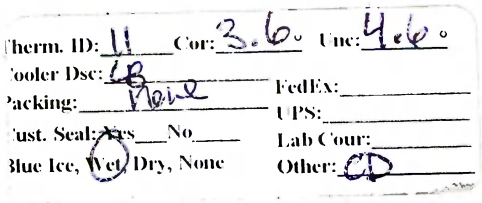
GHD/Blaine Tech 12/18/24



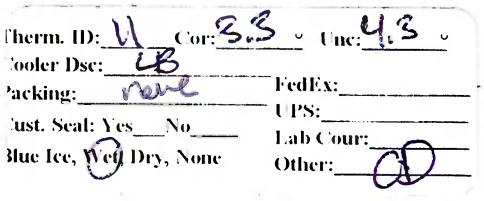
Cooler #1



Cooler #2



Cooler #3



Cooler #4

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Cruz, Sheri L	Carrier Tracking No(s): N/A	COC No: 580-140332.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Sheri.Cruz@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Oregon; State - Washington; State Program - Was ...		Job #: 580-146726-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 1/6/2025			
City: Arvada	TAT Requested (days): N/A			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Shell - 2555 13th Avenue	Project #: 58018168			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	353.2_Pres/ (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-307 (580-146726-1)	12/16/24	10:04 Pacific	G	Water			X	1	
MW-308 (580-146726-3)	12/16/24	10:31 Pacific	G	Water			X	1	
MW-203 (580-146726-9)	12/16/24	12:16 Pacific	G	Water			X	1	
MW-302 (580-146726-13)	12/17/24	08:46 Pacific	G	Water			X	1	
MW-312 (580-146726-15)	12/17/24	09:25 Pacific	G	Water			X	1	
MW-311 (580-146726-16)	12/17/24	09:27 Pacific	G	Water			X	1	
TX-03A (580-146726-17)	12/17/24	10:05 Pacific	G	Water			X	1	
MW-304 (580-146726-18)	12/17/24	10:06 Pacific	G	Water			X	1	
MW-310 (580-146726-20)	12/17/24	10:43 Pacific	G	Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Brook Meade	12/20/24 1315	GETN		12/21/24 1000	EET DEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.3, 7.2,

Ver: 10/10/2024

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Cruz, Sheri L	Carrier Tracking No(s): N/A	COC No: 580-140332.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Sheri.Cruz@et.eurofinsus.com	State of Origin: Washington	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Oregon; State - Washington; State Program - Was ...		Job #: 580-146726-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 1/6/2025			
City: Arvada	TAT Requested (days): N/A			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Shell - 2555 13th Avenue	Project #: 58018168			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	353.2_Pres/ (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-202 (580-146726-31)	12/18/24	08:42 Pacific	G	Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Burke Moore	12/24/24 1315	EETN		12/24/24 1000	EETC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 580-146726-1

Login Number: 146726
List Number: 1
Creator: Groves, Elizabeth

List Source: Eurofins Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 580-146726-1

Login Number: 146726
List Number: 3
Creator: Little, Matthew L

List Source: Eurofins Denver
List Creation: 12/21/24 12:25 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 580-146726-1

Login Number: 146726
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 12/20/24 06:41 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Emily Blakeway
GHD Services Inc.
9725 3rd Avenue NE, Suite 204
Seattle, Washington 98115

Generated 1/29/2025 7:19:15 PM

JOB DESCRIPTION

Shell - 2555 13th Avenue

JOB NUMBER

580-146726-3

Eurofins Seattle
5755 8th Street East
Tacoma WA 98424

See page two for job notes and contact information.

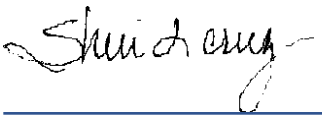
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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization



Generated
1/29/2025 7:19:15 PM

Authorized for release by
Sheri Cruz, Project Manager I
Sheri.Cruz@et.eurofinsus.com
(253)922-2310

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Job Narrative
580-146726-3

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/18/2024 11:36 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.8°C, 3.3°C, 3.6°C and 4.5°C.

Receipt Exceptions
The following sample was activated for NWTPH-Gx analysis by the client on 1/28/2025: MW-303 (580-146726-19). This analysis was not originally requested on the chain-of-custody (COC).

Gasoline Range Organics
Method NWTPH_Gx_MS: The following sample was diluted due to the abundance of non-target analytes: MW-303 (580-146726-19). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-3

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-3

Client Sample ID: MW-303
Date Collected: 12/17/24 10:36
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-19
Matrix: Water

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2630		1500	730	ug/L			12/20/24 19:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*77 - 123*		*12/20/24 19:06*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 580-481036/11
Matrix: Water
Analysis Batch: 481036

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	73.0	ug/L			12/20/24 15:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*77 - 123*		*12/20/24 15:10*	*1*

Lab Sample ID: LCS 580-481036/8
Matrix: Water
Analysis Batch: 481036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Gasoline			1000	1044		ug/L		104	55 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*77 - 123*

Lab Sample ID: LCSD 580-481036/9
Matrix: Water
Analysis Batch: 481036

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline			1000	1041		ug/L		104	55 - 148	0	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*77 - 123*

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-3

Client Sample ID: MW-303

Date Collected: 12/17/24 10:36
Date Received: 12/18/24 11:36

Lab Sample ID: 580-146726-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NWTPH-Gx		10	481036	AA	EET SEA	12/20/24 19:06

Laboratory References:

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: GHD Services Inc.
Job ID: 580-146726-3
Project/Site: Shell - 2555 13th Avenue

Laboratory: Eurofins Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4167	07-07-25
Washington	State	C788-24	07-13-25

Sample Summary

Client: GHD Services Inc.
Project/Site: Shell - 2555 13th Avenue

Job ID: 580-146726-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-146726-19	MW-303	Water	12/17/24 10:36	12/18/24 11:36

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:
☐ SGW FDG ☐ PIPELINE ☐ RETAIL
☐ CHEMICALS ☐ CONSULTANT ☐ LUBES
☐ TRANSPORTATION ☐ OTHER _____

Print Bill To Contact Name:
PO #
PlaNet Site or Project ID
GSAP Project ID
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 12-18-24
PAGE: 1 of 4

SAMPLING COMPANY: Blaine Tech Services, Inc
LOG CODE: BTSS
SITE ADDRESS: Street and City: 2555 13th Avenue
State: WA
GHD Project / Task Number: 12631170
ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112
EDF DELIVERABLE TO (Name, Company, Office Location): Emily Blakeway, GHD, WA
PHONE NO.: (425) 327-4585
E-MAIL: emily.blakeway@ghd.com
GHD Other ID
PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway
TELEPHONE: (425) 327-4585
FAX:
Bill To Contact E-MAIL: emily.blakeway@ghd.com
SAMPLER NAME(S) (Print): Lydia Johnson, Mac Hiller
LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____
TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☐ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS
UNIT COST: 8260C BTEX; NWTPH-Dx; 8270D SIM PAHs; 300.0 Sulfate
NON-UNIT COST: NWTPH-Gx; 6020A Total Lead; 353.2 Nitrate & Nitrite; 6020A Diss. Iron & Manganese (lab filtered)

FIELD NOTES:
TEMPERATURE ON RECEIPT C°
Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	8260C BTEX	NWTPH-Dx	8270D SIM PAHs	300.0 Sulfate	NWTPH-Gx	6020A Total Lead	353.2 Nitrate & Nitrite	6020A Diss. Iron & Manganese (lab filtered)
	MW-307	12/16/24	1004	GW	X		X			9	X	X		X	X		X	X
	TES-MW-1		1012		X					6	X	X			X			
	MW-308		1031		X		X			7	X			X	X		X	X
	MW-101		1056		X					6	X	X		J	X			
	MW-102		1102		X					6	X	X			X			
	TX-06A		1139		X					6	X	X			X			
	MW-213		1141		X					8	X	X	X		X			
	MW-214		1208		X					8	X	X	X		X			
	MW-203		1216		X		X			9		X		X	X		X	X
	MW-206A		1242		X					8	X	X			X			

580-146726 Chain of Custody

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	12-18-24 1136 FEDEX	12-18-24	1136
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

1/29/2025

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:			Print Bill To Contact Name:	PlaNet Site or Project ID	☐ CHECK IF NO INCIDENT # APPLIES
☐ SGW FDG	☐ PIPELINE	☐ RETAIL			DATE: 12-18-24
☐ CHEMICALS	☐ CONSULTANT	☐ LUBES	PO #	GSAP Project ID	PAGE: 2 of 4
☐ TRANSPORTATION	☐ OTHER _____				

SAMPLING COMPANY:	LOG CODE:	SITE ADDRESS: Street and City	State	GHD Project / Task Number:
Blaine Tech Services, Inc	BTSS	2555 13th Avenue	WA	12631170

ADDRESS:	EDF DELIVERABLE TO (Name, Company, Office Location):	PHONE NO.:	E-MAIL:	GHD Other ID
1680 Rogers Ave, San Jose, CA, 95112	Emily Blakeway, GHD, WA	(425) 327-4585	emily.blakeway@ghd.com	

PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway

TELEPHONE:	FAX:	Bill To Contact E-MAIL:	SAMPLER NAME(S) (Print):	LAB USE ONLY
(425) 327-4585		emily.blakeway@ghd.com	Lydia Johnson, Mac Miller	

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED
- ☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	UNIT COST: 8260C BTEX	NWTPH-Dx	8270D SIM PAHs	300.0 Sulfate	NON-UNIT COST: NWTPH-Gx	6020A Total Lead	353.2 Nitrate & Nitrite	6020A Diss. Iron & Manganese (lab filtered)
	MW-204	12-16-24	1251	GW	X					6	X	X			X			
	MW-313	12-17-24	0838		X					6	X	X			X			
	MW-302		0846		X		X			9	X	X		X	X		X	X
	MW-315		0907		X					6	X	X			X			
	MW-312		0925		X		X			7	X			X	X		X	X
	MW-311		0927		X		X			7	X			X	X		X	X
	TX-03A		1005		X		X			9	X	X		X	X		X	X
	MW-304		1006		X		X			9	X	X		X	X		X	X
	MW-303		1036		X					6	X	X		X				
	MW-310		1043		X		X			9	X	X		X	X		X	X

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		12-18-24	1136
		12-18-24	1136

Version: 14Dec15

1/29/2025

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:
- ☐ SGW FDG
- ☐ PIPELINE
- ☐ RETAIL
- ☐ CHEMICALS
- ☐ CONSULTANT
- ☐ LUBES
- ☐ TRANSPORTATION
- ☐ OTHER _____

Print Bill To Contact Name:

PlaNet Site or Project ID

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 12-18-24

PAGE: 3 of 4

PO #

GSAP Project ID

SAMPLING COMPANY: Blaine Tech Services, Inc

LOG CODE: BTSS

SITE ADDRESS: Street and City: 2555 13th Avenue

State: WA

GHD Project / Task Number: 12631170

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

EDF DELIVERABLE TO (Name, Company, Office Location): Emily Blakeway, GHD, WA

PHONE NO.: (425) 327-4585

E-MAIL: emily.blakeway@ghd.com

GHD Other ID

PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway

TELEPHONE: (425) 327-4585

FAX:

Bill To Contact E-MAIL: emily.blakeway@ghd.com

SAMPLER NAME(S) (Print): Lydia Johnson, Mac Hiller

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED
- ☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

UNIT COST: 8260C BTEX; NWTPH-Dx; 8270D SIM PAHs; 300.0 Sulfate

NON-UNIT COST: NWTPH-Gx; 6020A Total Lead; 353.2 Nitrate & Nitrite; 6020A Diss. Iron & Manganese (lab filtered)

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	8260C BTEX	NWTPH-Dx	8270D SIM PAHs	300.0 Sulfate	NWTPH-Gx	6020A Total Lead	353.2 Nitrate & Nitrite	6020A Diss. Iron & Manganese (lab filtered)
	MW-301	12-17-24	1104	GW	X					4	X				X			
	SH-64		1145		X					6	X	X			X			
	MW-309		1148		X					6	X	X			X			
	MW-112A		1229		X					6	X	X			X			
	TX-64		1231		X					6	X	X			X			
	MW-105		1347		X	X				7	X	X			X	X		
	MW-114		1354		X					6	X	X			X			
	MW-113		1413		X					6	X	X			X			
	MW-115		1423		X					6	X	X			X			
	MW-314		1524		X					6	X	X			X			

Relinquished by: (Signature)	Received by: (Signature)	Date: 12-18-24	Time: 1136
Relinquished by: (Signature)	Received by: (Signature)	Date: 12-18-24	Time: 1136
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

1/29/2025

Shell Oil Products US Chain Of Custody Record

1/29/2025

LAB (LOCATION)
- ☐ ACCUTEST (_____)
- ☐ CALSCIENCE (_____)
- ☑ TESTAMERICA (_____)
- ☐ Other (_____)

Lab Vendor # Dropdown

Please Check Appropriate Box:		
☐ SGW FDG	☐ PIPELINE	☐ RETAIL
☐ CHEMICALS	☐ CONSULTANT	☐ LUBES
☐ TRANSPORTATION	☐ OTHER _____	

Print Bill To Contact Name:

PlaNet Site or Project ID

PO #

GSAP Project ID

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 12-18-24

PAGE: 4 of 4

SAMPLING COMPANY: Blaine Tech Services, Inc

LOG CODE: BTSS

SITE ADDRESS: Street and City: 2555 13th Avenue

State: WA

GHD Project / Task Number: 12631170

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

EDF DELIVERABLE TO (Name, Company, Office Location): Emily Blakeway, GHD, WA

PHONE NO.: (425) 327-4585

E-MAIL: emily.blakeway@ghd.com

GHD Other ID

PROJECT CONTACT (Hardcopy or PDF Report to): Emily Blakeway

TELEPHONE: (425) 327-4585

FAX:

Bill To Contact E-MAIL: emily.blakeway@ghd.com

SAMPLER NAME(S) (Print): Lydia Johnson, Mac Hiller

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☐ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

UNIT COST: 8260C BTEX; NWTPH-Dx; 8270D SIM PAHs; 300.0 Sulfate

NON-UNIT COST: NWTPH-Gx; 6020A Total Lead; 353.2 Nitrate & Nitrite; 6020A Diss. Iron & Manganese (lab filtered)

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	8260C BTEX	NWTPH-Dx	8270D SIM PAHs	300.0 Sulfate	NWTPH-Gx	6020A Total Lead	353.2 Nitrate & Nitrite	6020A Diss. Iron & Manganese (lab filtered)
	MW-202	12-18-24	0842	GW	X		X			9	X	X		X	X		X	X
	MW-201		0907		X					6	X	X			X			
	MW-111		0941		X					6	X	X			X			
	MW-104		1005		X	X				7		X			X	X		
	MW-05		1034		X					6	X	X			X			
	TB-1		1100		X					2	X							

Relinquished by: (Signature)	Received by: (Signature)	Date: 12-18-24	Time: 1136
Relinquished by: (Signature)	Received by: (Signature)	Date: 12-18-24	Time: 1136
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Version: 14Dec15

GHD/Blaine Tech 12/18/24

Therm. ID: 11 Cor: 4.5° Unc: 5.5°
Cooler Dsc: LB
Packing: none
Cust. Seal: Yes ___ No ___
Blue Ice, (Wet) Dry, None
FedEx: ___
UPS: ___
Lab Cour: ___
Other: CD

Cooler #1

Therm. ID: 11 Cor: 1.8° Unc: 2.8°
Cooler Dsc: LB
Packing: none
Cust. Seal: Yes ___ No ___
Blue Ice, (Wet) Dry, None
FedEx: ___
UPS: ___
Lab Cour: ___
Other: CD

Cooler #2

Therm. ID: 11 Cor: 3.6° Unc: 4.6°
Cooler Dsc: LB
Packing: None
Cust. Seal: Yes ___ No ___
Blue Ice, (Wet) Dry, None
FedEx: ___
UPS: ___
Lab Cour: ___
Other: CD

Cooler #3

Therm. ID: 11 Cor: 3.3° Unc: 4.3°
Cooler Dsc: LB
Packing: none
Cust. Seal: Yes ___ No ___
Blue Ice, (Wet) Dry, None
FedEx: ___
UPS: ___
Lab Cour: ___
Other: CD

Cooler #4

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 580-146726-3

Login Number: 146726
List Number: 1
Creator: Groves, Elizabeth

List Source: Eurofins Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Appendix C

Data Validation

Data Verification Report

April 12, 2024

To	Emily Blakeway	**Project No.**	12631170
Copy to	Amber Meslar	**DVR No.**	2
From	Jeffrey Cloud/eew	**Contact No.**	1 971 925 3756
Project Name	Equilon Enterprises LLC dba Shell Oil Products US	**Email**	Jeffrey.Cloud@ghd.com
Subject	Analytical Results and Data Verification of Report 580-137665-1 Quarterly Groundwater Sampling Triton West Consent Decree Seattle, Washington March 2024		

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

1. Introduction

This document details a data verification of analytical results for groundwater samples collected in support of the Quarterly Groundwater Sampling at the Triton West Consent Decree site in Seattle, Washington during March 2024. Samples were submitted to Eurofins Seattle, located in Tacoma, Washington. A sample collection and analysis summary is presented in Table 1. A summary of the analytical methodology is presented in Table 2. The validated analytical results are summarized in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The analytical results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, recovery data from surrogate spikes, laboratory control data and field QC data.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 2 and applicable guidance from the document entitled "National Functional Guidelines for Organic Superfund Methods Data Review", United States Environmental Protection Agency (USEPA) 540-R-20-005, November 2020.

2. Sample Holding Time and Preservation

The sample holding time criteria and sample preservation requirements for the requested parameters are summarized in the methods. The sample chain of custody documents and analytical report were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All sample containers were properly preserved, delivered on ice and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of one per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC), gasoline range organics (GRO) and diesel range organics (DRO)/motor oil range organics (ORO) analyses were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Surrogate recoveries were assessed against the control limits. All surrogate recoveries met the associated criteria.

5. Laboratory Control Sample Analyses

Laboratory control samples (LCS)/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS/LCSD were analyzed at a minimum frequency of one per analytical batch.

The LCS/LCSD contained all analytes of interest. All LCS/LCSD recoveries and RPDs were within associated control limits, demonstrating acceptable analytical accuracy and precision.

6. Field QA/QC Samples

The field QA/QC consisted of one trip blank sample.

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank was submitted to the laboratory for analysis. All results were non-detect for the analytes of interest with the exception of two analytes present at low concentrations. The associated sample results with concentrations similar to the blank were qualified as non-detect due to contamination as evidenced by the blank (see Table 4).

7. Analyte Reporting

Data were reported down to the laboratory's quantitation limit (QL), which is defined as the method detection limit (MDL) with sample-specific adjustments for dilutions, aliquot size, volumes, etc. Positive analyte detections less than the reporting limit (RL) but greater than the QL were reported as estimated (J) in Table 3 unless qualified otherwise in this report. Non-detect results were presented as non-detect at the RL in Table 3.

8. Conclusion

Based on the assessment detailed in the foregoing, the summarized data are acceptable with the specific qualifications noted herein.

Regards



Jeffrey Cloud
Data Management Team – Data Validator

Table 1

Sample Collection and Analysis Summary
Quarterly Groundwater Sampling
Equilon Enterprises LLC dba Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
March 2024

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: DRO/ORO	GRO	VOCs	Comments
MW-301	MW-301	Water	03/12/2024	10:02		X	X	
MW-302	MW-302	Water	03/11/2024	12:02		X	X	
MW-303	MW-303	Water	03/12/2024	09:37		X	X	
MW-304	MW-304	Water	03/12/2024	10:52		X	X	
MW-307	MW-307	Water	03/11/2024	10:38		X	X	
MW-308	MW-308	Water	03/11/2024	11:04		X	X	
MW-310	MW-310	Water	03/12/2024	10:27		X	X	
MW-311	MW-311	Water	03/12/2024	09:09		X	X	
MW-312	MW-312	Water	03/12/2024	08:42		X	X	
MW-313	MW-313	Water	03/12/2024	08:16	X	X	X	
MW-315	MW-315	Water	03/12/2024	07:48	X	X	X	
TX-03A	TX-03A	Water	03/11/2024	11:40		X	X	
TB-1	--	Water	03/11/2024			X	X	Trip Blank

Notes:

VOCs - Volatile Organic Compounds
GRO - Gasoline Range Organics
DRO/ORO - Diesel Range Organics/Motor Oil Range Organics
"--" - Not Applicable

Table 2

Analytical Methods
Quarterly Groundwater Sampling
Equilon Enterprises LLC dba Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
March 2024

Parameter	Method	Matrix
Volatile Organic Compounds (VOCs)	SW-846 8260D[(1)]	Water
Gasoline Range Organics (GRO)	NWTPH-Dx[(2)]	Water
Diesel Range Organics (DRO)/Motor Oil Range Organics (ORO)	NWTPH-Gx[(2)]	Water

Notes:

(1) - SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

(2) - NWTPH - Referenced from "Washington State Department of Ecology Analytical Methods for Petroleum Hydrocarbons", Publication No. ECY 97-602, June 1997

Table 3

Analytical Results Summary
Quarterly Groundwater Sampling
Equilon Enterprises LLC dba Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
March 2024

	Location ID:	MW-301	MW-302	MW-303	MW-304	MW-307	MW-308
	Sample Name:	MW-301	MW-302	MW-303	MW-304	MW-307	MW-308
	Sample Date:	03/12/2024	03/11/2024	03/12/2024	03/12/2024	03/11/2024	03/11/2024
Parameters	**Unit**						
Volatile Organic Compounds							
Benzene	µg/L	19.3	6.68	13.7	12.7	18.3	1.00 U
Ethylbenzene	µg/L	3.39	1.00 U	29.8	1.00 U	26.7	1.00 U
Toluene	µg/L	3.46	1.00 U	1.25	1.00 U	7.43	1.00 U
Xylenes (total)	µg/L	3.51	2.00 U	4.90	2.55	27.6	2.00 U
Total Petroleum Hydrocarbons							
Gasoline	µg/L	1020	297	1330	574	1090	100 U
Motor oil	µg/L	--	--	--	--	--	--
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	--	--	--	--	--	--

Table 3

Analytical Results Summary
Quarterly Groundwater Sampling
Equilon Enterprises LLC dba Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
March 2024

	Location ID:	MW-310	MW-311	MW-312	MW-313	MW-315	TX-03A
	Sample Name:	MW-310	MW-311	MW-312	MW-313	MW-315	TX-03A
	Sample Date:	03/12/2024	03/12/2024	03/12/2024	03/12/2024	03/12/2024	03/11/2024
Parameters	**Unit**						
Volatile Organic Compounds							
Benzene	µg/L	12.4	1.44	10.8	1.00 U	5.34	169
Ethylbenzene	µg/L	6.04	0.510 J	1.94	1.00 U	0.641 J	10.0 U
Toluene	µg/L	1.83	2.07	2.69	1.00 U	3.15	10.0 U
Xylenes (total)	µg/L	6.13	2.00 U	2.44	2.00 U	2.51	20.0 U
Total Petroleum Hydrocarbons							
Gasoline	µg/L	896	2820	3180	74.0 J	3820	2840
Motor oil	µg/L	--	--	--	260 J	531	--
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	--	--	--	184	4730	--

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
"--" - Not analyzed
DRO - Diesel Range Organics

Table 4

Qualified Sample Data Due to Analyte Concentrations in the Trip Blanks
Quarterly Groundwater Sampling
Equilon Enterprises LLC dba Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
March 2024

Parameter	Blank Date (mm/dd/yyyy)	Analyte	Blank Result *	Associated Sample ID	Original Result	Qualified Result	Units
VOCs	03/11/2024	Toluene	7.65 J	TX-03A	7.63 J	10.0 U	µg/L
			0.765 J	MW-302	0.531 J	1.00 U	µg/L
				MW-304	0.887 J	1.00 U	µg/L
		Xylenes (total)	10.3 J	TX-03A	8.02 J	20.0 U	µg/L
			1.03 J	MW-311	1.32 J	2.00 U	µg/L
				MW-302	1.33 J	2.00 U	µg/L

Notes:

* - Blank result adjusted for sample factors where applicable
U - Not detected at the associated concentration
J - Estimated concentration
VOCs - Volatile Organic Compounds

Data Verification Report

July 22, 2024

To	Emily Blakeway	**Project No.**	12631170
Copy to	Simón Villena, Wyatte Copeland	**DVR No.**	3
From	Jeffrey Cloud/eew	**Contact No.**	1 971 925 3756
Project Name	Equilon Enterprises LLC dba Shell Oil Products US	**Email**	Jeffrey.Cloud@ghd.com
Subject	Analytical Results and Data Verification of Report 580-141296-1 Quarterly Groundwater Sampling Triton West Consent Decree Seattle, Washington June 2024		

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

1. Introduction

This document details a data verification of analytical results for groundwater samples collected in support of the Quarterly Groundwater Sampling at the Triton West Consent Decree site in Seattle, Washington during June 2024. Samples were submitted to Eurofins Seattle, located in Tacoma, Washington. A sample collection and analysis summary is presented in Table 1. A summary of the analytical methodology is presented in Table 2. The validated analytical results are summarized in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The analytical results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, laboratory duplicate data, recovery data from surrogate spikes, laboratory control data, matrix spikes and field QC data.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 2 and applicable guidance from the documents entitled:

1. "National Functional Guidelines for Organic Superfund Methods Data Review", United States Environmental Protection Agency (USEPA) 540-R-20-005, November 2020
2. "National Functional Guidelines for Inorganic Superfund Methods Data Review", USEPA 542-R-20-006, November 2020

These items will subsequently be referred to as the "Guidelines" in this report.

2. Sample Holding Time and Preservation

The sample holding time criteria and sample preservation requirements for the requested parameters are summarized in the methods. The sample chain of custody documents and analytical report were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All sample containers were properly preserved, delivered on ice and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of one per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC), semi-volatile organic compound (SVOC), gasoline range organics (GRO) and diesel range organics (DRO)/motor oil range organics (ORO) analyses were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Surrogate recoveries were assessed against the control limits. All surrogate recoveries met the associated criteria with the exception of two low DRO/ORO surrogate recoveries. The associated sample results were qualified as estimated due to the implied low bias (see Table 4).

5. Laboratory Control Sample Analyses

Laboratory control samples (LCS)/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS/LCSD were analyzed at a minimum frequency of one per analytical batch.

5.1 Organic Analyses

The LCS/LCSD contained all analytes of interest. All LCS/LCSD recoveries and RPD values were within associated control limits, demonstrating acceptable analytical accuracy and precision.

5.2 Inorganic Analyses

The LCS/LCSD contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS/LCSD recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision.

6. Matrix Spike Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as matrix spike (MS)/matrix spike duplicate (MSD) samples. The RPD between the MS and MSD is used to assess analytical precision. MS/MSD analyses were performed as specified in Table 1.

The MS/MSD samples were spiked with the analyte of interest and the results were evaluated using the "Guidelines". All percent recoveries and the RPD value were within the control limits, demonstrating acceptable analytical accuracy and precision.

7. Duplicate Sample Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, one duplicate sample was prepared and analyzed by the laboratory as specified in Table 1. The duplicate results were evaluated per the "Guidelines". The duplicate analysis performed was acceptable, demonstrating acceptable analytical precision.

8. Field QA/QC Samples

The field QA/QC consisted of one trip blank sample.

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank was submitted to the laboratory for analysis. All results were non-detect for the analytes of interest with the exception of two analytes present at low concentrations. The associated sample results with concentrations similar to the blank were qualified as non-detect due to contamination as evidenced by the blank (see Table 5).

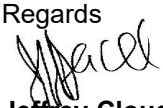
9. Analyte Reporting

Data were reported down to the laboratory's quantitation limit (QL), which is defined as the method detection limit (MDL) with sample-specific adjustments for dilutions, aliquot size, volumes, etc. Positive analyte detections less than the reporting limit (RL) but greater than the QL were reported as estimated (J) in Table 3 unless qualified otherwise in this report. Non-detect results were presented as non-detect at the RL in Table 3.

10. Conclusion

Based on the assessment detailed in the foregoing, the summarized data are acceptable with the specific qualifications noted herein.

Regards



Jeffrey Cloud
Data Management Team – Data Validator

Table 1

Sample Collection and Analysis Summary
Quarterly Groundwater Sampling
Equilon Enterprises LLC dba Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
June 2024

					Analysis/Parameters						
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**DRO/ORO**	**DRO/ORO w/sgc**	**GRO**	**Lead**	**VOCs**	**SVOCs**	**Comments**
MW-05	MW-05	Water	06/17/2024	12:02	X	X	X		X		
MW-104	MW-104	Water	06/19/2024	09:55	X	X	X	X			MS/MSD - DUP
MW-111	MW-111	Water	06/17/2024	12:35	X	X	X		X		
MW-112A	MW-112A	Water	06/18/2024	08:58	X	X	X		X		
MW-113	MW-113	Water	06/17/2024	12:55	X	X	X		X		
MW-114	MW-114	Water	06/17/2024	12:30	X	X	X		X		
MW-115	MW-115	Water	06/17/2024	11:58	X	X	X		X		
MW-202	MW-202	Water	06/18/2024	12:04	X	X	X				
MW-203	MW-203	Water	06/18/2024	11:48	X	X	X				
MW-213	MW-213	Water	06/19/2024	09:54	X	X	X		X	X	
MW-214	MW-214	Water	06/19/2024	09:23	X		X		X	X	
MW-301	MW-301	Water	06/18/2024	10:31			X		X		
MW-302	MW-302	Water	06/18/2024	09:48			X		X		
MW-303	MW-303	Water	06/18/2024	10:35			X		X		
MW-304	MW-304	Water	06/18/2024	09:55			X		X		
MW-307	MW-307	Water	06/19/2024	07:56	X	X	X		X		
MW-308	MW-308	Water	06/19/2024	08:03			X		X		
MW-309	MW-309	Water	06/18/2024	08:10			X		X		
MW-310	MW-310	Water	06/18/2024	09:20			X		X		
MW-311	MW-311	Water	06/17/2024	10:58			X		X		
MW-312	MW-312	Water	06/18/2024	11:05			X		X		
MW-313	MW-313	Water	06/18/2024	08:45	X	X	X		X		
MW-314	MW-314	Water	06/19/2024	08:50	X	X	X		X		
MW-315	MW-315	Water	06/19/2024	09:18	X	X	X		X		

Table 1

Sample Collection and Analysis Summary
Quarterly Groundwater Sampling
Equilon Enterprises LLC dba Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
June 2024

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters						Comments
					DRO/ORO	DRO/ORO w/sgc	GRO	Lead	VOCs	SVOCs	
SH-04	SH-04	Water	06/18/2024	08:12	X	X	X		X		
TX-03A	TX-03A	Water	06/19/2024	08:42			X		X		
TB-1	--	Water	06/19/2024	--			X		X		Trip Blank

Notes:

DUP	- Laboratory Duplicate
MS/MSD	- Matrix Spike/Matrix Spike Duplicate
VOCs	- Volatile Organic Compounds
SVOCs	- Semi-volatile Organic Compounds
GRO	- Gasoline Range Organics
DRO/ORO	- Diesel Range Organics/Motor Oil Range Organics
w/sgc	- With Silica Gel Cleanup
"--"	- Not Applicable

Table 2

Analytical Methods
Quarterly Groundwater Sampling
Equilon Enterprises LLC dba Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
June 2024

Parameter	Method	Matrix
Volatile Organic Compounds (VOCs)	SW-846 8260D[(1)]	Water
Semi-volatile Organic Compounds (SVOCs)	SW-846 8270E SIM[(1)]	Water
Gasoline Range Organics (GRO)	NWTPH-Gx[(2)]	Water
Diesel Range Organics (DRO)/Motor Oil Range Organics (ORO)	NWTPH-Dx[(2)]	Water
Lead	6020B[(1)]	Water

Notes:

(1) - SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

(2) - NWTPH - Referenced from "Washington State Department of Ecology Analytical Methods for Petroleum Hydrocarbons", Publication No. ECY 97-602, June 1997

SIM - Selected Ion Monitoring

Table 3

Analytical Results Summary
Quarterly Groundwater Sampling
Equilon Enterprises LLC dba Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
June 2024

Location ID:		MW-05	MW-104	MW-111	MW-112A	MW-113	MW-114	MW-115	MW-202	MW-203
Sample Name:		**MW-05**	**MW-104**	**MW-111**	**MW-112A**	**MW-113**	**MW-114**	**MW-115**	**MW-202**	**MW-203**
Sample Date:		**06/17/2024**	**06/19/2024**	**06/17/2024**	**06/18/2024**	**06/17/2024**	**06/17/2024**	**06/17/2024**	**06/18/2024**	**06/18/2024**
Parameters	**Unit**									
Volatile Organic Compounds										
Benzene	µg/L	1.00 U	--	4.41	1.95	162	1.00 U	1.00 U	--	--
Ethylbenzene	µg/L	1.00 U	--	1.00 U	47.1	7.24 J	1.00 U	1.00 U	--	--
Toluene	µg/L	1.00 U	--	1.00 U	1.48	24.8	1.00 U	1.00 U	--	--
Xylenes (total)	µg/L	2.00 U	--	2.00 U	3.49	20.9	2.00 U	2.00 U	--	--
Semi-volatile Organic Compounds, SIM										
1-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--	--
Acenaphthene	µg/L	--	--	--	--	--	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--	--	--	--	--	--
Anthracene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--	--	--	--	--	--
Fluoranthene	µg/L	--	--	--	--	--	--	--	--	--
Fluorene	µg/L	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	--	--	--	--	--	--	--	--	--

Table 3

Analytical Results Summary
Quarterly Groundwater Sampling
Equilon Enterprises LLC dba Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
June 2024

Location ID:		MW-05	MW-104	MW-111	MW-112A	MW-113	MW-114	MW-115	MW-202	MW-203
Sample Name:		**MW-05**	**MW-104**	**MW-111**	**MW-112A**	**MW-113**	**MW-114**	**MW-115**	**MW-202**	**MW-203**
Sample Date:		**06/17/2024**	**06/19/2024**	**06/17/2024**	**06/18/2024**	**06/17/2024**	**06/17/2024**	**06/17/2024**	**06/18/2024**	**06/18/2024**
Parameters	**Unit**									
Semi-volatile Organic Compounds, SIM (Continued)										
Phenanthrene	µg/L	--	--	--	--	--	--	--	--	--
Pyrene	µg/L	--	--	--	--	--	--	--	--	--
Metals										
Lead	µg/L	--	3.68	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons										
Gasoline	µg/L	150 U	1200	150 U	1780	412	150 U	993	488	92.3 J
Motor oil	µg/L	224 J	856	199 J	644	1180 J-	286 J	1340	688	754
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	122 J	1240	142 J	5300	3560 J-	118 J	4010	3430	397
Total Petroleum Hydrocarbons - Extractable (DRO) (Silica Gel)	µg/L	210 U	458	208 U	3600	1640	201 U	2520	1880	154 J
Total Petroleum Hydrocarbons - Motor Oil (Silica Gel)	µg/L	166 J	358 U	365 U	154 J	377 U	352 U	165 J	176 J	296 J

Table 3

Analytical Results Summary
Quarterly Groundwater Sampling
Equilon Enterprises LLC dba Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
June 2024

Location ID:		MW-213	MW-214	MW-301	MW-302	MW-303	MW-304	MW-307	MW-308	MW-309
Sample Name:		MW-213	MW-214	MW-301	MW-302	MW-303	MW-304	MW-307	MW-308	MW-309
Sample Date:		06/19/2024	06/19/2024	06/18/2024	06/18/2024	06/18/2024	06/18/2024	06/19/2024	06/19/2024	06/18/2024
Parameters	**Unit**									
Volatile Organic Compounds										
Benzene	µg/L	1.00 U	1.00 U	86.4	35.2	44.3	273	49.8	1.00 U	1.00 U
Ethylbenzene	µg/L	1.00 U	1.00 U	1.21	1.00 U	74.8	0.734 J	67.9	1.00 U	1.00 U
Toluene	µg/L	1.00 U	1.00 U	3.59	2.07	2.38	13.2	16.4 J+	1.00 U	1.00 U
Xylenes (total)	µg/L	2.00 U	2.00 U	8.96	4.79	9.29	31.3	41.6	2.00 U	2.00 U
Semi-volatile Organic Compounds, SIM										
1-Methylnaphthalene	µg/L	0.106 U	0.101 U	--	--	--	--	--	--	--
2-Methylnaphthalene	µg/L	0.212 U	0.202 U	--	--	--	--	--	--	--
Acenaphthene	µg/L	0.106 U	0.101 U	--	--	--	--	--	--	--
Acenaphthylene	µg/L	0.0529 U	0.0504 U	--	--	--	--	--	--	--
Anthracene	µg/L	0.106 U	0.101 U	--	--	--	--	--	--	--
Benzo(a)anthracene	µg/L	0.0529 U	0.0504 U	--	--	--	--	--	--	--
Benzo(a)pyrene	µg/L	0.106 U	0.101 U	--	--	--	--	--	--	--
Benzo(b)fluoranthene	µg/L	0.106 U	0.101 U	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	µg/L	0.0529 U	0.0504 U	--	--	--	--	--	--	--
Benzo(k)fluoranthene	µg/L	0.0529 U	0.0504 U	--	--	--	--	--	--	--
Chrysene	µg/L	0.106 U	0.101 U	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.106 U	0.101 U	--	--	--	--	--	--	--
Fluoranthene	µg/L	0.212 U	0.202 U	--	--	--	--	--	--	--
Fluorene	µg/L	0.106 U	0.101 U	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	0.0529 U	0.0504 U	--	--	--	--	--	--	--
Naphthalene	µg/L	0.529 U	0.504 U	--	--	--	--	--	--	--

Table 3

Analytical Results Summary
Quarterly Groundwater Sampling
Equilon Enterprises LLC dba Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
June 2024

Location ID:		MW-213	MW-214	MW-301	MW-302	MW-303	MW-304	MW-307	MW-308	MW-309
Sample Name:		MW-213	MW-214	MW-301	MW-302	MW-303	MW-304	MW-307	MW-308	MW-309
Sample Date:		06/19/2024	06/19/2024	06/18/2024	06/18/2024	06/18/2024	06/18/2024	06/19/2024	06/19/2024	06/18/2024
Parameters	**Unit**									
Semi-volatile Organic Compounds, SIM (Continued)										
Phenanthrene	µg/L	0.106 U	0.101 U	--	--	--	--	--	--	--
Pyrene	µg/L	0.106 U	0.101 U	--	--	--	--	--	--	--
Metals										
Lead	µg/L	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons										
Gasoline	µg/L	94.6 J	150 U	1440	659	2590	1720	2460	77.7 J	129 J
Motor oil	µg/L	349	368 U	--	--	--	--	440 J-	--	--
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	288	210 U	--	--	--	--	3550 J-	--	--
Total Petroleum Hydrocarbons - Extractable (DRO) (Silica Gel)	µg/L	200 U	--	--	--	--	--	2300	--	--
Total Petroleum Hydrocarbons - Motor Oil (Silica Gel)	µg/L	349 U	--	--	--	--	--	367 U	--	--

Table 3

Analytical Results Summary
Quarterly Groundwater Sampling
Equilon Enterprises LLC dba Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
June 2024

	Location ID:	MW-310	MW-311	MW-312	MW-313	MW-314	MW-315	SH-04	TX-03A
	Sample Name:	MW-310	MW-311	MW-312	MW-313	MW-314	MW-315	SH-04	TX-03A
	Sample Date:	06/18/2024	06/17/2024	06/18/2024	06/18/2024	06/19/2024	06/19/2024	06/18/2024	06/19/2024
Parameters	**Unit**								
Volatile Organic Compounds									
Benzene	µg/L	23.3	0.662 J	6.59	1.00 U	0.334 J	17.4	3.49	152
Ethylbenzene	µg/L	1.45	1.00 U	1.23	1.00 U	1.00 U	0.941 J	1.06	10.0 U
Toluene	µg/L	1.64	1.86	2.10	1.00 U	1.00 U	3.40	1.00 U	10.0 U
Xylenes (total)	µg/L	2.45	2.00 U	2.00 U	2.00 U	2.00 U	2.29	2.00 U	20.0 U
Semi-volatile Organic Compounds, SIM									
1-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--
Acenaphthene	µg/L	--	--	--	--	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--	--	--	--	--
Anthracene	µg/L	--	--	--	--	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--	--	--	--	--
Chrysene	µg/L	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--	--	--	--	--
Fluoranthene	µg/L	--	--	--	--	--	--	--	--
Fluorene	µg/L	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--	--	--	--	--
Naphthalene	µg/L	--	--	--	--	--	--	--	--

Table 3

Analytical Results Summary
Quarterly Groundwater Sampling
Equilon Enterprises LLC dba Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
June 2024

Location ID:		MW-310	MW-311	MW-312	MW-313	MW-314	MW-315	SH-04	TX-03A
Sample Name:		**MW-310**	**MW-311**	**MW-312**	**MW-313**	**MW-314**	**MW-315**	**SH-04**	**TX-03A**
Sample Date:		**06/18/2024**	**06/17/2024**	**06/18/2024**	**06/18/2024**	**06/19/2024**	**06/19/2024**	**06/18/2024**	**06/19/2024**
Parameters	**Unit**								
Semi-volatile Organic Compounds, SIM (Continued)									
Phenanthrene	µg/L	--	--	--	--	--	--	--	--
Pyrene	µg/L	--	--	--	--	--	--	--	--
Metals									
Lead	µg/L	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons									
Gasoline	µg/L	1060	3010	3610	150 U	376	4090	232	2330
Motor oil	µg/L	--	--	--	150 J	442	408	287 J	--
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	--	--	--	99.2 J	1340	4490	904	--
Total Petroleum Hydrocarbons - Extractable (DRO) (Silica Gel)	µg/L	--	--	--	205 U	632	2820	401	--
Total Petroleum Hydrocarbons - Motor Oil (Silica Gel)	µg/L	--	--	--	359 U	358 U	361 U	138 J	--

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
J+ - Estimated concentration; implied high bias
J- - Estimated concentration; implied low bias
"--" - Not analyzed
DRO - Diesel Range Organics
SIM - Selected Ion Monitoring

Table 4

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Quarterly Groundwater Sampling
Equilon Enterprises LLC dba Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
June 2024

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result		Units
TPH	MW-307	o-Terphenyl	49	50-150	Total Petroleum Hydrocarbons - Extractable (DRO)	3550	J-	µg/L
					Motor oil	440	J-	µg/L
	MW-113	o-Terphenyl	44	50-150	Total Petroleum Hydrocarbons - Extractable (DRO)	3560	J-	µg/L
					Motor oil	1180	J-	µg/L

Notes:

J- - Estimated concentration; implied low bias

TPH - Total Petroleum Hydrocarbons

Table 5

Qualified Sample Data Due to Analyte Concentrations in the Trip Blanks
Quarterly Groundwater Sampling
Equilon Enterprises LLC dba Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
June 2024

Parameter	Blank Date (mm/dd/yyyy)	Analyte	Blank Result *	Associated Sample ID	Original Result	Qualified Result	Units
VOCs	06/19/2024	Toluene	10.6	MW-307	16.4	16.4 J+	µg/L
				TX-03A	7.90 J	10.0 U	µg/L
			1.06	MW-314	0.504 J	1.00 U	µg/L
				SH-04	0.817 J	1.00 U	µg/L
		Xylenes (total)	13.9 J	TX-03A	6.29 J	20.0 U	µg/L
			1.39 J	MW-311	0.853 J	2.00 U	µg/L
				MW-312	1.92 J	2.00 U	µg/L
				MW-314	0.569 J	2.00 U	µg/L
				SH-04	1.76 J	2.00 U	µg/L

Notes:

* - Blank result adjusted for sample factors where applicable
U - Not detected at the associated concentration
J - Estimated concentration
J+ - Estimated concentration; implied high bias
VOCs - Volatile Organic Compounds

Data Verification Report

October 18, 2024

To	Emily Blakeway	**Project No.**	12631170
Copy to	Amber Meslar	**DVR No.**	4
From	Jeffrey Cloud/eew	**Contact No.**	1 971 925 3756
Project Name	Equilon Enterprises LLC dba Shell Oil Products US	**Email**	Jeffrey.Cloud@ghd.com
Subject	Analytical Results and Data Verification of Report 580-144101-1 Quarterly Groundwater Sampling Triton West Consent Decree Seattle, Washington September 2024		

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

1. Introduction

This document details a data verification of analytical results for groundwater samples collected in support of the Quarterly Groundwater Sampling at the Triton West Consent Decree site in Seattle, Washington during September 2024. Samples were submitted to Eurofins Seattle, located in Tacoma, Washington. A sample collection and analysis summary is presented in Table 1. A summary of the analytical methodology is presented in Table 2. The validated analytical results are summarized in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The analytical results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, recovery data from surrogate spikes, laboratory control data and field QC data.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 2 and applicable guidance from the document entitled "National Functional Guidelines for Organic Superfund Methods Data Review", United States Environmental Protection Agency (USEPA) 540-R-20-005, November 2020.

2. Sample Holding Time and Preservation

The sample holding time criteria and sample preservation requirements for the requested parameters are summarized in the analytical methods. The sample chain of custody documents and analytical report were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All sample containers were properly preserved, delivered on ice and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of one per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation with the exception of benzene present at a low concentration. The associated sample result was significantly greater than the blank and was not impacted. No qualification of the data was deemed necessary.

4. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC), gasoline range organics (GRO) and diesel range organics (DRO)/motor oil range organics (ORO) analyses were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Surrogate recoveries were assessed against the control limits. All surrogate recoveries met the associated criteria.

5. Laboratory Control Sample Analyses

Laboratory control samples (LCS) or LCS/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of one per analytical batch.

The LCS and LCS/LCSD contained all analytes of interest. All LCS and LCS/LCSD recoveries and RPD values were within the associated control limits, demonstrating acceptable analytical accuracy and precision (where applicable).

6. Field QA/QC Samples

The field QA/QC consisted of one trip blank sample.

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank was submitted to the laboratory for analysis. All results were non-detect for the analytes of interest.

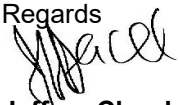
7. Analyte Reporting

Data were reported down to the laboratory's quantitation limit (QL), which is defined as the method detection limit (MDL) with sample-specific adjustments for dilutions, aliquot size, volumes, etc. Positive analyte detections less than the reporting limit (RL) but greater than the QL were reported as estimated (J) in Table 3. Non-detect results were presented as non-detect at the RL in Table 3.

8. Conclusion

Based on the assessment detailed in the foregoing, the summarized data are acceptable without qualification.

Regards



Jeffrey Cloud
Data Management Team – Data Validator

Table 1

Sample Collection and Analysis Summary
Quarterly Groundwater Sampling
Equilon Enterprises LLC dba Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
September 2024

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Parameters			Comments
					DRO/ORO	GRO	VOCs	
MW-301	MW-301	Water	09/18/2024	11:00		X	X	
MW-302	MW-302	Water	09/19/2024	11:20		X	X	
MW-303	MW-303	Water	09/18/2024	11:20		X	X	
MW-304	MW-304	Water	09/18/2024	11:48		X	X	
MW-307	MW-307	Water	09/18/2024	10:25		X	X	
MW-308	MW-308	Water	09/18/2024	10:00		X	X	
MW-310	MW-310	Water	09/18/2024	12:10		X	X	
MW-311	MW-311	Water	09/19/2024	08:00		X	X	
MW-312	MW-312	Water	09/19/2024	09:30		X	X	
MW-313	MW-313	Water	09/19/2024	08:25	X	X	X	
MW-315	MW-315	Water	09/19/2024	08:55	X	X	X	
TX-03A	TX-03A	Water	09/19/2024	10:45		X	X	
TB-1	--	Water	09/19/2024	--		X	X	Trip Blank

Notes:

VOCs - Volatile Organic Compounds
GRO - Gasoline Range Organics
DRO/ORO - Diesel Range Organics/Motor Oil Range Organics
"--" - Not Applicable

Table 2

Analytical Methods
Quarterly Groundwater Sampling
Equilon Enterprises LLC dba Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
September 2024

Parameter	Method	Matrix
Volatile Organic Compounds (VOCs)	SW-846 8260D[(1)]	Water
Gasoline Range Organics (GRO)	NWTPH-Gx[(2)]	Water
Diesel Range Organics (DRO)/Motor Oil Range Organics (ORO)	NWTPH-Dx[(2)]	Water

Notes:

(1) - SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

(2) - NWTPH - Referenced from "Washington State Department of Ecology Analytical Methods for Petroleum Hydrocarbons", Publication No. ECY 97-602, June 1997

Table 3

Analytical Results Summary
Quarterly Groundwater Sampling
Equilon Enterprises LLC dba Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
September 2024

	Location ID:	MW-301	MW-302	MW-303	MW-304	MW-307	MW-308
	Sample Name:	MW-301	MW-302	MW-303	MW-304	MW-307	MW-308
	Sample Date:	09/18/2024	09/19/2024	09/18/2024	09/18/2024	09/18/2024	09/18/2024
Parameters	**Unit**						
Volatile Organic Compounds							
Benzene	mg/L	0.0371	0.112	0.305	0.290	0.0440	0.00192
Ethylbenzene	mg/L	0.000608 J	0.0100 U	0.101	0.0100 U	0.0284	0.00100 U
Toluene	mg/L	0.00514	0.00532 J	0.00821 J	0.0119	0.0124	0.00107
Xylenes (total)	mg/L	0.00710	0.00688 J	0.0147 J	0.0347	0.0356	0.000598 J
Total Petroleum Hydrocarbons							
Gasoline	mg/L	1.15	1.20 J	2.91	1.82	2.37	0.482
Motor oil	mg/L	--	--	--	--	--	--
Total Petroleum Hydrocarbons - Extractable (DRO)	mg/L	--	--	--	--	--	--

Table 3

Analytical Results Summary
Quarterly Groundwater Sampling
Equilon Enterprises LLC dba Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
September 2024

	Location ID:	MW-310	MW-311	MW-312	MW-313	MW-315	TX-03A
	Sample Name:	MW-310	MW-311	MW-312	MW-313	MW-315	TX-03A
	Sample Date:	09/18/2024	09/19/2024	09/19/2024	09/19/2024	09/19/2024	09/19/2024
Parameters	**Unit**						
Volatile Organic Compounds							
Benzene	mg/L	0.0228	0.00126	0.00716	0.00100 U	0.0118	0.213
Ethylbenzene	mg/L	0.000534 J	0.000584 J	0.00114	0.00100 U	0.000502 J	0.0100 U
Toluene	mg/L	0.00366	0.00256	0.00241	0.00100 U	0.00316	0.0122
Xylenes (total)	mg/L	0.00796	0.000930 J	0.00208	0.00200 U	0.00289	0.0147 J
Total Petroleum Hydrocarbons							
Gasoline	mg/L	1.21	2.80	2.98	0.150 U	3.51	2.42
Motor oil	mg/L	--	--	--	0.186 J	0.377	--
Total Petroleum Hydrocarbons - Extractable (DRO)	mg/L	--	--	--	0.125 J	4.05	--

Notes:

U - Not detected at the associated concentration
J - Estimated concentration
"--" - Not analyzed
DRO - Diesel Range Organics

Data Verification Report

January 31, 2025

To	Emily Blakeway	**Project No.**	12631170
Copy to	Simón Villena	**DVR No.**	05
From	Jeffrey Cloud/eew	**Contact No.**	1 971 925 3756
Project Name	Shell Oil Products US	**Email**	Jeffrey.Cloud@ghd.com
Subject	Analytical Results and Data Verification of Report 580-146726-1 and 580-146726-3 Quarterly Groundwater Sampling Triton West Consent Decree Seattle, Washington December 2024		

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

1. Introduction

This document details a data verification of analytical results for groundwater samples collected in support of the Quarterly Groundwater Sampling at the Triton West Consent Decree site in Seattle, Washington during December 2024. Samples were submitted to Eurofins Seattle, located in Tacoma, Washington. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The analytical results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, recovery data from surrogate spikes, laboratory control data and field QA/QC data.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

1. "National Functional Guidelines for Organic Superfund Methods Data Review", United States Environmental Protection Agency (USEPA) 540-R-20-005, November 2020
2. "National Functional Guidelines for Inorganic Superfund Methods Data Review", USEPA 542-R-20-006, November 2020

These items will subsequently be referred to as the "Guidelines" in this report.

2. Sample Holding Time and Preservation

The sample holding time criteria and sample preservation requirements for the requested parameters are summarized in the analytical methods. The sample chain of custody documents and analytical report were used to determine sample holding times. All samples were prepared and analyzed within the required holding times with the exception of one sample for diesel range organics (DRO)/motor oil range organics (ORO) analysis. The associated sample results were qualified as estimated due to the implied low bias (see Table 4).

All sample containers were properly preserved, delivered on ice and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of one per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation with the exception of two analytes present at low concentrations. The associated sample result with a concentration similar to the blank was qualified as non-detect due to contamination as evidenced by the blank (see Table 5).

4. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC), semi-volatile organic compound (SVOC), gasoline range organics (GRO) and DRO/ORO analyses were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Surrogate recoveries were assessed against the control limits. All surrogate recoveries met the associated criteria with the exception of one high VOC surrogate recovery. The associated sample results were qualified as estimated due to the implied high bias (see Table 6).

5. Laboratory Control Sample Analyses

Laboratory control samples (LCS) or LCS/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of one per analytical batch.

Organic Analyses

The LCS and LCS/LCSD contained all analytes of interest. All LCS and LCS/LCSD recoveries and RPD values were within the associated control limits, demonstrating acceptable analytical accuracy and precision (where applicable).

Inorganic Analyses

The LCS and LCS/LCSD contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS and LCS/LCSD recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision (where applicable).

6. Field QA/QC Samples

The field QA/QC consisted of one trip blank sample.

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank was submitted to the laboratory for analysis. All results were non-detect for the analytes of interest.

7. Analyte Reporting

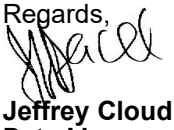
Data were reported down to the laboratory's quantitation limit (QL), which is defined as the method detection limit (MDL) with sample-specific adjustments for dilutions, aliquot size, volumes, etc. Positive analyte detections less than the reporting limit (RL) but greater than the QL were reported as estimated (J) in Table 2 unless qualified otherwise in this report. Non-detect results were presented as non-detect at the RL in Table 2.

If multiple QC results exhibit variability and/or high/low directional biases as related to a sample result, then any directional bias indicators are removed from the final sample result qualification.

8. Conclusion

Based on the assessment detailed in the foregoing, the summarized data are acceptable with the specific qualifications noted herein.

Regards,



Jeffrey Cloud
Data Management Team – Data Validator

Table 1

Sample Collection and Analysis Summary
Quarterly Groundwater Sampling
Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
December 2024

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters								Comments
					Sulfate	Nitrate/Nitrite	DRO/ORO	GRO	Lead	Dissolved Metals	VOCs	SVOCs	
MW-05	MW-05	Water	12/18/2024	10:34			X	X			X		
MW-101	MW-101	Water	12/16/2024	10:56			X	X			X		
MW-102	MW-102	Water	12/16/2024	11:02			X	X			X		
MW-104	MW-104	Water	12/18/2024	10:05			X	X	X				
MW-105	MW-105	Water	12/17/2024	13:47			X	X	X		X		
MW-111	MW-111	Water	12/18/2024	09:41			X	X			X		
MW-112A	MW-112A	Water	12/17/2024	12:29			X	X			X		
MW-113	MW-113	Water	12/17/2024	14:13			X	X			X		
MW-114	MW-114	Water	12/17/2024	13:54			X	X			X		
MW-115	MW-115	Water	12/17/2024	14:23			X	X			X		
MW-201	MW-201	Water	12/18/2024	09:07			X	X			X		
MW-202	MW-202	Water	12/18/2024	08:42	X	X	X	X		X	X		
MW-203	MW-203	Water	12/16/2024	12:16	X	X	X	X		X			
MW-204	MW-204	Water	12/16/2024	12:51			X	X			X		
MW-206A	MW-206A	Water	12/16/2024	12:42			X	X			X		
MW-213	MW-213	Water	12/16/2024	11:41			X	X			X	X	
MW-214	MW-214	Water	12/16/2024	12:08			X	X			X	X	
MW-301	MW-301	Water	12/17/2024	11:04				X			X		
MW-302	MW-302	Water	12/17/2024	08:46	X	X	X	X		X	X		
MW-303	MW-303	Water	12/17/2024	10:36	X		X	X			X		
MW-304	MW-304	Water	12/17/2024	10:06	X	X	X	X		X	X		
MW-307	MW-307	Water	12/16/2024	10:04	X	X	X	X		X	X		
MW-308	MW-308	Water	12/16/2024	10:31	X	X		X		X	X		
MW-309	MW-309	Water	12/17/2024	11:48			X	X			X		
MW-310	MW-310	Water	12/17/2024	10:43	X	X	X	X		X	X		

Table 1

Sample Collection and Analysis Summary
Quarterly Groundwater Sampling
Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
December 2024

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters								Comments
					Sulfate	Nitrate/Nitrite	DRO/ORO	GRO	Lead	Dissolved Metals	VOCs	SVOCs	
MW-311	MW-311	Water	12/17/2024	09:27	X	X		X		X	X		
MW-312	MW-312	Water	12/17/2024	09:25	X	X		X		X	X		
MW-313	MW-313	Water	12/17/2024	08:38	X	X	X	X			X		
MW-314	MW-314	Water	12/17/2024	15:24			X	X			X		
MW-315	MW-315	Water	12/17/2024	09:01			X	X			X		
SH-04	SH-04	Water	12/17/2024	11:45			X	X			X		
TES-MW-1	TES-MW-1	Water	12/16/2024	10:12			X	X			X		
TX-03A	TX-03A	Water	12/17/2024	10:05	X	X	X	X		X	X		
TX-04	TX-04	Water	12/17/2024	12:31			X	X			X		
TX-06A	TX-06A	Water	12/16/2024	11:39			X	X			X		
TB-1	--	Water	12/18/2024	--							X		Trip Blank

Notes:

VOCs - Volatile Organic Compounds
SVOCs - Semi-volatile Organic Compounds
GRO - Gasoline Range Organics
DRO/ORO - Diesel Range Organics/Motor Oil Range Organics
"--" - Not Applicable

Table 2

Analytical Results Summary
Quarterly Groundwater Sampling
Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
December 2024

Location ID:		MW-05	MW-101	MW-102	MW-104	MW-105	MW-111	MW-112A	MW-113	MW-114
Sample Name:		MW-05	MW-101	MW-102	MW-104	MW-105	MW-111	MW-112A	MW-113	MW-114
Sample Date:		12/18/2024	12/16/2024	12/16/2024	12/18/2024	12/17/2024	12/18/2024	12/17/2024	12/17/2024	12/17/2024
Parameters	**Unit**									
Volatile Organic Compounds										
Benzene	µg/L	1.00 U	1.00 U	1.00 U	--	1.00 U	9.04	1.70	24.6	1.00 U
Ethylbenzene	µg/L	1.00 U	1.00 U	1.00 U	--	1.00 U	1.00 U	0.914 J	1.64	1.00 U
Toluene	µg/L	1.00 U	1.00 U	1.00 U	--	1.00 U	0.709 J	1.75	3.57	1.00 U
Xylenes (total)	µg/L	2.00 U	2.00 U	2.00 U	--	2.00 U	2.00 U	1.57 J	3.04	2.00 U
Semi-volatile Organic Compounds, SIM										
1-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	--	--	--	--	--	--	--	--	--
Metals										
Lead	µg/L	--	--	--	3.05	9.21	--	--	--	--
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--

Table 2

Analytical Results Summary
Quarterly Groundwater Sampling
Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
December 2024

Location ID:		**MW-05**	**MW-101**	**MW-102**	**MW-104**	**MW-105**	**MW-111**	**MW-112A**	**MW-113**	**MW-114**
Sample Name:		**MW-05**	**MW-101**	**MW-102**	**MW-104**	**MW-105**	**MW-111**	**MW-112A**	**MW-113**	**MW-114**
Sample Date:		**12/18/2024**	**12/16/2024**	**12/16/2024**	**12/18/2024**	**12/17/2024**	**12/18/2024**	**12/17/2024**	**12/17/2024**	**12/17/2024**
Parameters	**Unit**									
Total Petroleum Hydrocarbons										
Gasoline	µg/L	150 U	322	150 U	97.9 J	150 U	105 J	1430	172	150 U
Motor oil	µg/L	154 J	480	356 J	166 J	416	323 J	1190	381	641 J-
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	208 U	2850	440	152 J	153 J	320	4440	757	209 J
General Chemistry										
Nitrite/Nitrate	mg/L	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	--	--	--	--	--	--	--	--	--

Table 2

Analytical Results Summary
Quarterly Groundwater Sampling
Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
December 2024

Location ID:		MW-115	MW-201	MW-202	MW-203	MW-204	MW-206A	MW-213	MW-214	MW-301
Sample Name:		MW-115	MW-201	MW-202	MW-203	MW-204	MW-206A	MW-213	MW-214	MW-301
Sample Date:		12/17/2024	12/18/2024	12/18/2024	12/16/2024	12/16/2024	12/16/2024	12/16/2024	12/16/2024	12/17/2024
Parameters	**Unit**									
Volatile Organic Compounds										
Benzene	µg/L	1.00 U	1.00 U	2.78	--	0.287 J	1.00 U	1.00 U	1.00 U	52.6
Ethylbenzene	µg/L	1.00 U	1.00 U	1.42	--	1.00 U	1.00 U	1.00 U	1.00 U	1.70
Toluene	µg/L	1.00 U	1.00 U	0.939 J	--	1.00 U	1.00 U	1.00 U	1.00 U	8.42
Xylenes (total)	µg/L	2.00 U	2.00 U	0.739 J	--	2.00 U	2.00 U	2.00 U	2.00 U	7.93
Semi-volatile Organic Compounds, SIM										
1-Methylnaphthalene	µg/L	--	--	--	--	--	--	0.107 U	0.104 U	--
2-Methylnaphthalene	µg/L	--	--	--	--	--	--	0.215 U	0.208 U	--
Benzo(a)anthracene	µg/L	--	--	--	--	--	--	0.0537 U	0.0519 U	--
Benzo(a)pyrene	µg/L	--	--	--	--	--	--	0.107 U	0.104 U	--
Benzo(b)fluoranthene	µg/L	--	--	--	--	--	--	0.107 U	0.104 U	--
Benzo(k)fluoranthene	µg/L	--	--	--	--	--	--	0.0537 U	0.0519 U	--
Chrysene	µg/L	--	--	--	--	--	--	0.107 U	0.104 U	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--	--	--	0.107 U	0.104 U	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--	--	--	0.0537 U	0.0519 U	--
Naphthalene	µg/L	--	--	--	--	--	--	0.537 U	0.519 U	--
Metals										
Lead	µg/L	--	--	--	--	--	--	--	--	--
Iron (dissolved)	mg/L	--	--	2.25	5.57	--	--	--	--	--
Manganese (dissolved)	mg/L	--	--	0.509	0.252	--	--	--	--	--

Table 2

Analytical Results Summary
Quarterly Groundwater Sampling
Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
December 2024

Location ID:		MW-115	MW-201	MW-202	MW-203	MW-204	MW-206A	MW-213	MW-214	MW-301
Sample Name:		MW-115	MW-201	MW-202	MW-203	MW-204	MW-206A	MW-213	MW-214	MW-301
Sample Date:		12/17/2024	12/18/2024	12/18/2024	12/16/2024	12/16/2024	12/16/2024	12/16/2024	12/16/2024	12/17/2024
Parameters	**Unit**									
Total Petroleum Hydrocarbons										
Gasoline	µg/L	193	150 U	1080	823	150 U	150 U	150 U	150 U	1080
Motor oil	µg/L	637	419	843	665	730	639	420	374 U	--
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	756	204	6900	470	386	238	332	165 J	--
General Chemistry										
Nitrite/Nitrate	mg/L	--	--	0.0521 J	0.118	--	--	--	--	--
Sulfate	µg/L	--	--	24600	6860	--	--	--	--	--

Table 2

Analytical Results Summary
Quarterly Groundwater Sampling
Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
December 2024

Location ID:		**MW-302**	**MW-303**	**MW-304**	**MW-307**	**MW-308**	**MW-309**	**MW-310**	**MW-311**	**MW-312**
Sample Name:		**MW-302**	**MW-303**	**MW-304**	**MW-307**	**MW-308**	**MW-309**	**MW-310**	**MW-311**	**MW-312**
Sample Date:		**12/17/2024**	**12/17/2024**	**12/17/2024**	**12/16/2024**	**12/16/2024**	**12/17/2024**	**12/17/2024**	**12/17/2024**	**12/17/2024**
Parameters	**Unit**									
Volatile Organic Compounds										
Benzene	µg/L	12.3 J+	68.6	234	50.3	1.00 U	1.00 U	20.1	10.6	5.49
Ethylbenzene	µg/L	0.549 J	106	10.0 U	22.8	1.00 U	1.00 U	1.00 U	0.552 J	1.41
Toluene	µg/L	2.62 J+	10.0 U	11.2	12.0	1.00 U	1.00 U	3.15	2.63	2.47
Xylenes (total)	µg/L	3.66 J+	10.6 J	33.5	31.1	2.00 U	2.00 U	7.88	1.61 J	2.38
Semi-volatile Organic Compounds, SIM										
1-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	--	--	--	--	--	--	--	--	--
Metals										
Lead	µg/L	--	--	--	--	--	--	--	--	--
Iron (dissolved)	mg/L	3.13	--	0.863	0.500 U	0.500 U	--	3.77	1.47	1.06
Manganese (dissolved)	mg/L	0.798	--	0.361	0.400	0.0168	--	0.803	1.05	0.689

Table 2

Analytical Results Summary
Quarterly Groundwater Sampling
Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
December 2024

Location ID:		MW-302	MW-303	MW-304	MW-307	MW-308	MW-309	MW-310	MW-311	MW-312
Sample Name:		MW-302	MW-303	MW-304	MW-307	MW-308	MW-309	MW-310	MW-311	MW-312
Sample Date:		12/17/2024	12/17/2024	12/17/2024	12/16/2024	12/16/2024	12/17/2024	12/17/2024	12/17/2024	12/17/2024
Parameters	**Unit**									
Total Petroleum Hydrocarbons										
Gasoline	µg/L	879	2630	2300	1820	150 U	86.1 J	1010	2500	2750
Motor oil	µg/L	692	665	329 J	499	--	175 J	905	--	--
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	2530	3990	1520	2500	--	202 J	3230	--	--
General Chemistry										
Nitrite/Nitrate	mg/L	0.0450 J	--	0.0733 J	0.109	0.179	--	0.0506 J	0.100 U	0.100 U
Sulfate	µg/L	9990	2030	1500 U	982 J	76100	--	1500 U	1500 U	1500 U

Table 2

Analytical Results Summary
Quarterly Groundwater Sampling
Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
December 2024

Location ID:		MW-313	MW-314	MW-315	SH-04	TES-MW-1	TX-03A	TX-04	TX-06A
Sample Name:		**MW-313**	**MW-314**	**MW-315**	**SH-04**	**TES-MW-1**	**TX-03A**	**TX-04**	**TX-06A**
Sample Date:		**12/17/2024**	**12/17/2024**	**12/17/2024**	**12/17/2024**	**12/16/2024**	**12/17/2024**	**12/17/2024**	**12/16/2024**
Parameters	**Unit**								
Volatile Organic Compounds									
Benzene	µg/L	1.00 U	0.406 J	1.71	4.78	1.00 U	132	1.00 U	1.00 U
Ethylbenzene	µg/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.06 J	1.00 U	1.00 U
Toluene	µg/L	1.00 U	1.10	3.20	1.15	1.00 U	8.40 J	1.00 U	1.00 U
Xylenes (total)	µg/L	2.00 U	1.44 J	2.97	1.63 J	2.00 U	11.0 J	2.00 U	2.00 U
Semi-volatile Organic Compounds, SIM									
1-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--	--	--	--	--
Chrysene	µg/L	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--	--	--	--	--
Naphthalene	µg/L	--	--	--	--	--	--	--	--
Metals									
Lead	µg/L	--	--	--	--	--	--	--	--
Iron (dissolved)	mg/L	--	--	--	--	--	0.500 U	--	--
Manganese (dissolved)	mg/L	--	--	--	--	--	0.525	--	--

Table 2

Analytical Results Summary
Quarterly Groundwater Sampling
Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
December 2024

Location ID:		**MW-313**	**MW-314**	**MW-315**	**SH-04**	**TES-MW-1**	**TX-03A**	**TX-04**	**TX-06A**
Sample Name:		**MW-313**	**MW-314**	**MW-315**	**SH-04**	**TES-MW-1**	**TX-03A**	**TX-04**	**TX-06A**
Sample Date:		**12/17/2024**	**12/17/2024**	**12/17/2024**	**12/17/2024**	**12/16/2024**	**12/17/2024**	**12/17/2024**	**12/16/2024**
Parameters	**Unit**								
Total Petroleum Hydrocarbons									
Gasoline	µg/L	150 U	522	2790	247	150 U	1920	150 U	150 U
Motor oil	µg/L	351 J	535	488	361	378 U	639	194 J	527
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	243	1620	4170	2570	216 U	1500	160 J	885
General Chemistry									
Nitrite/Nitrate	mg/L	--	--	--	--	--	0.0617 J	--	--
Sulfate	µg/L	--	--	--	--	--	1030 J	--	--

Notes:

U - Not detected at the associated concentration
J - Estimated concentration
J+ - Estimated concentration; implied high bias
J- - Estimated concentration; implied low bias
"--" - Not analyzed
SIM - Selected Ion Monitoring
DRO - Diesel Range Organics

Table 3

Analytical Methods
Quarterly Groundwater Sampling
Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
December 2024

Parameter	Method	Matrix
Volatile Organic Compounds (VOCs)	SW-846 8260D[(1)]	Water
Semi-volatile Organic Compounds (SVOCs)	SW-846 8270E SIM[(1)]	Water
Gasoline Range Organics (GRO)	NWTPH-Gx[(2)]	Water
Diesel Range Organics (DRO)/Motor Oil Range Organics (ORO)	NWTPH-Dx[(2)]	Water
Lead	SW-846 6020B[(1)]	Water
Dissolved Metals	SW-846 6020B[(1)]	Water
Sulfate	EPA 300.0[(3)]	Water
Nitrate/Nitrite	EPA 353.2[(3)]	Water

Notes:

(1) - SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

(2) - NWTPH - Referenced from "Washington State Department of Ecology Analytical Methods for Petroleum Hydrocarbons", Publication No. ECY 97-602, June 1997

(3) - EPA - MCAWW - “Methods for Chemical Analysis of Water and Waste,” EPA-600/4-79-020, revised March 1983, with subsequent revisions

SIM - Selected Ion Monitoring

Table 4

Qualified Sample Results Due to Holding Time Exceedance
Quarterly Groundwater Sampling
Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
December 2024

Parameter	Sample ID	Holding Time Criteria	Holding Time	Analyte	Qualified Sample Results	Units
TPH	MW-114	14 days	17 days	Motor oil	641 J-	µg/L
				Total Petroleum Hydrocarbons - Extractable (DRO)	209 J	µg/L

Notes:

J - Estimated concentration
J- - Estimated concentration; implied low bias
TPH - Total Petroleum Hydrocarbons
DRO - Diesel Range Organics

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Quarterly Groundwater Sampling
Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
December 2024

Parameter	Analysis Date (mm/dd/yyyy)	Analyte	Blank Result *	Sample ID	Original Result	Qualified Result	Units
Metals	12/27/2024	Iron (dissolved)	0.07525 J	TX-03A	0.165 J	0.500 U	mg/L

Notes:

* - Blank result adjusted for sample factors where applicable
U - Not detected at the associated concentration
J - Estimated concentration

Table 6

Qualified Sample Data Due to Outlying Surrogate Recoveries
Quarterly Groundwater Sampling
Shell Oil Products US - Triton West Consent Decree
Seattle, Washington
December 2024

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	MW-302	4-Bromofluorobenzene	122	80-120	Benzene	12.3 J+	µg/L
					Ethylbenzene	0.549 J	µg/L
					Toluene	2.62 J+	µg/L
					Xylenes (total)	3.66 J+	µg/L

Notes:

J - Estimated concentration
J+ - Estimated concentration; implied high bias
VOCs - Volatile Organic Compounds



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