2022 GROUNDWATER MONITORING REPORT

DELTA WESTERN DILLINGHAM
DILLINGHAM, ALASKA

ADEC Hazard Identification Nos. 23487 and 25770

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ACRONYMS AND ABBREVIATIONS

2022 monitoring event	September 2022 performance groundwater monitoring activities
AAC	Alaska Administrative Code
ADEC	Alaska Department of Environmental Conservation
BTEX	benzene, toluene, ethylbenzene, and xylenes
Delta Western	Delta Western, LLC
Dillingham Tank Farm site	the southern portion of Terminal at 309 Main Street, in Dillingham, Alaska
Dillingham Auto site	the northern portion of Terminal at 315 Main Street, in Dillingham, Alaska
DRO	total petroleum hydrocarbons as diesel-range organics
EPA	U.S. Environmental Protection Agency
Farallon	Farallon Consulting, L.L.C.
GRO	total petroleum hydrocarbons as gasoline-range organics
Interim Action	2020 Interim Removal Action
IRA Work Plan	*Interim Removal Action Work Plan, Delta Western Terminal, Dillingham, Alaska* dated May 27, 2020, prepared by Farallon Consulting, L.L.C. for Delta Western, LLC
LOQ	limit of quantitation
µg/l	micrograms per liter
mg/l	milligrams per liter
PAHs	polynuclear aromatic hydrocarbons
QA	quality assurance
QC	quality control

RPD	relative percent difference
RRO	total petroleum hydrocarbons as residual-range organics
Site	terminal in Dillingham, Alaska
TAH	total aromatic hydrocarbons
TAqH	total aqueous hydrocarbons
VOCs	volatile organic compounds

1.0 INTRODUCTION

Farallon Consulting, L.L.C. (Farallon) has prepared this 2022 Groundwater Monitoring Report for Delta Western, LLC (Delta Western) to present the results from carbon assessment activities conducted from June 28 through June 29, 2022 and groundwater monitoring activities conducted from September 10 through 15, 2022, at the terminal in Dillingham, Alaska (herein referred to as the Site). The September 2022 performance groundwater monitoring activities (herein referred to as the 2022 monitoring event) were conducted as part of ongoing groundwater monitoring and sampling at the Site, and to evaluate the performance of the 2020 Interim Removal Action (herein referred to as the Interim Action). The Interim Action activities are described in the Interim Removal Action Report dated March 17, 2021 (Farallon 2021). An assessment of residual suspended carbon in groundwater in down-gradient monitoring wells related to the Interim Action was conducted in June 2022 and also is described herein. A Site vicinity map is provided on Figure 1. A Site plan is provided on Figure 2.

This 2022 Groundwater Monitoring Report was prepared by Stuart Brown, Farallon Associate Environmental Scientist; the field work was conducted by Norman Straub of LII Associates, LLC., both of whom are qualified environmental professionals as defined in Section 333(b) of Chapter 75 of Title 18 of the Alaska Administrative Code (18 AAC 75.333[b]). Norman Straub also is a qualified sampler as defined in 18 AAC 75.333(c).

The Site comprises two "sites" as identified by the Alaska Department of Environmental Conservation (ADEC):

- The northern portion of the Site at 315 Main Street, designated by ADEC as Dillingham Auto and assigned Hazard Identification No. 23487 and File No. 2540.26.003 (Dillingham Auto site); and
- The southern portion of the Site at 309 Main Street, designated by ADEC as Delta Western Tank Farm – Dillingham and assigned Hazard Identification No. 25770 and File No. 2540.38.017 Dillingham Tank Farm site).

In accordance with the definition of a "site" under 18 AAC 75.990(115), the Site as referred to herein includes both the Dillingham Auto and Tank Farm sites. The Dillingham Auto site includes a portion of the Site office building and fuel service station, which currently are owned and operated by Bristol Alliance Fuels, LLC. The terminal and associated infrastructure was purchased by Bristol Alliance Fuels, LLC from Delta Western in 2022. Prior to the purchase by Bristol Alliance Fuels, LLC in 2022, they leased the terminal and all associated infrastructure from Delta Western and were responsible for all associated operations beginning in April 2019.

The work was conducted in accordance with the *Interim Removal Action Work Plan, Delta Western Terminal, Dillingham, Alaska* dated May 27, 2020, prepared by Farallon (2020) (IRA Work Plan) and approved by ADEC (2020a) in the letter dated June 17, 2020.

This Groundwater Monitoring Report is organized into the following sections:

- **Section 2, Interim Action Summary**, summarizes the 2020 Interim Action activities.
- **Section 3, Carbon Assessment,** presents the results of the assessment of suspended carbon in groundwater that was conducted at the Site in June 2022.
- **Section 4, Groundwater Monitoring Methods,** presents the groundwater monitoring and sampling methods used for the 2022 monitoring event;
- **Section 5, Groundwater Monitoring Results,** presents the results from the 2022 groundwater monitoring and sampling event conducted at the Site;
- **Section 6, Seep Sampling Method and Results,** presents the September 2022 seep sampling method and results;
- **Section 7, Quality Assurance Data Review,** presents a summary of quality assurance (QA) data validation findings for the groundwater and seep samples analyzed for the 2022 monitoring event;
- **Section 8, Investigation-Derived Waste Handling,** discusses the handling, transport, and treatment or disposal of investigation-derived waste.
- **Section 9, Discussion,** provides a discussion of the results from the 2022 groundwater monitoring and seep water sampling activities, and an assessment of the performance to date of the Interim Action based on the results from the 2022 monitoring event;
- **Section 10, References,** presents a list of the documents cited in this report; and
- **Section 11, Limitations,** presents the limitations regarding the findings and use of this report.

2.0 INTERIM ACTION SUMMARY

This section provides a summary of the Interim Action.

2.1 PURPOSE OF THE INTERIM ACTION

The purpose of the Interim Action was to mitigate potential impacts of petroleum-impacted groundwater migrating to the Nushagak River at the southern boundary of the Site by using an active remediation technology to reduce petroleum hydrocarbon concentrations in groundwater to less than surface water quality standards for total aromatic hydrocarbons (TAH) and total aqueous hydrocarbon (TAqH) concentrations provided in 18 AAC 70[1].

2.2 2020 INTERIM ACTION SUMMARY

The Interim Action was completed in September 2020 by injecting 8,256 gallons of the liquid-activated carbon-based product PetroFix manufactured by Regenesis of San Clemente, California into 48 direct-push injection points along an alignment on the southern portion of the Site. The injection points are depicted on Figure 2. Twenty-eight of the injection points were located inside the tank farm secondary containment area, and 20 injection points were outside the secondary containment area to the west. PetroFix is composed of micron-sized particles of activated carbon suspended in water that bind organic contaminants as they pass through the aquifer matrix. Once emplaced in the subsurface, PetroFix creates a thin-film coating on the aquifer matrix, allowing organic contaminants in groundwater to partition directly onto the carbon particles sorbed to the aquifer matrix, thus removing contaminants from groundwater. Approximately 480 pounds of an electron-acceptor blend consisting of ammonium sulfate and sodium nitrate was mixed into the PetroFix solution to promote biodegradation of petroleum hydrocarbons sorbed to the carbon substrate.

2.3 2020 and 2021 GROUNDWATER MONITORING

A Site-wide baseline groundwater monitoring event was conducted in September 2020 in conjunction with the Interim Action injection activities. Site-wide groundwater monitoring and performance groundwater monitoring of selected monitoring wells were conducted in 2021 to assess the performance of the Interim Action. The 2020 Interim Action injections resulted in significant reductions of benzene, toluene, ethylbenzene, and xylenes (BTEX) concentrations in groundwater and seep water in the southwestern portion of the Site, down-gradient of the injection point alignment. The concentrations of total petroleum hydrocarbons as diesel-range organics (DRO) and gasoline-range organics (GRO) also were significantly lower down-gradient of the injection alignment relative to concentrations detected in monitoring wells up-gradient of the alignment during the 2021 groundwater monitoring events, demonstrating the Interim Action

[1]ADEC surface water quality standards (18 AAC 70.020) of 10 micrograms per liter (µg/l) for TAH, and 15 µg/l for TAqH for marine or fresh water aquaculture water-supply designated uses.

injections have effectively reduced petroleum hydrocarbons concentrations in groundwater in the southwestern area of the Site (Farallon 2022a).

Concentration of BTEX constituents in groundwater monitoring wells MW-29 and MW-30, located in the down-gradient area of the Tank 10 secondary containment in the southeastern area of the Site declined in 2021 relative to the Interim Action baseline monitoring event conducted in September 2020, but still exceed ADEC Table C cleanup levels. Total petroleum hydrocarbons as residual-range organics (RRO) concentrations detected in groundwater samples from monitoring wells MW-29 and MW-30 decreased from slightly exceeding the ADEC Table C cleanup level during the baseline monitoring event to less than the cleanup levels during the 2021 monitoring events. DRO and GRO concentrations in groundwater samples collected from monitoring wells MW-29 and MW-30 remained above the ADEC Table C cleanup levels following the Interim Action.

Suspended carbon material from the 2020 Interim Action was observed in groundwater samples collected from monitoring wells MW-29 and MW-30, which are located immediately adjacent to the sheet pile secondary containment wall, during each of the monitoring events conducted in 2020 and 2021. The 2021 Groundwater Monitoring Report noted that suspended carbon material likely contains sorbed hydrocarbons and may have resulted in a high bias for the analytical results for dissolved-phased contaminant concentrations in groundwater (Farallon 2022a).

3.0 CARBON ASSESSMENT

On June 28 and 29, 2022, Farallon conducted an assessment of relative concentrations of suspended carbon in groundwater samples collected in 2020 and 2021 that contained visible evidence of suspended carbon, following the Interim Action injection of PetroFix in September 2020. The purpose of the assessment was to evaluate whether corrective measures should be considered to mitigate potential suspended carbon observed in groundwater in down-gradient monitoring wells during 2020 and 2021 monitoring events that could bias analytical results for groundwater samples collected from these monitoring wells. The results of the assessment were summarized in an e-mail from Farallon to ADEC dated August 1, 2022 (Farallon 2022b).

Monitoring wells MW-10, MW-11R, MW-16, MW-27, MW-29, and MW-30 were sampled for the suspended carbon assessment. Groundwater samples were collected using a submersible cyclone pump which was decontaminated with an Alconox detergent wash and distilled water rinse between sample points. Each sample was placed in an unpreserved clear 40 milliliter sampling vial The samples were then visually compared to a 50 milligrams per liter (mg/l) PetroFix standard provided by Regenesis, the manufacturer of the Petrofix product. Regenesis indicated that based on its experience, suspended carbon material from Petrofix injections at concentrations less than 50 mg/l should not have a significant effect on dissolved-phased petroleum hydrocarbons concentrations in groundwater sampling results. Photographs of the samples and the PetroFix standard used for comparison are provided in Appendix A.

Based on visual examination, the highest concentration of suspended residual carbon was observed in the groundwater sample from monitoring well MW-29 with a similar but lesser amount of suspended carbon observed in the sample from monitoring well MW-27. Considerably less suspended carbon was observed in the other samples collected for the assessment. The sample collected from monitoring well MW-11R appeared to be clear. The groundwater sample collected from monitoring well MW-16 had no indications of the presence of suspended carbon.

Using the visual comparison method recommended by Regenesis, none of the groundwater samples from the monitoring wells evaluated exceeded the 50 mg/l suspended carbon benchmark. Therefore, potential mitigation measures to decrease suspended carbon concentrations were deemed not necessary prior to conducting the Site-wide groundwater monitoring event in September 2022.

4.0 GROUNDWATER MONITORING METHODS

This section describes the groundwater monitoring and sampling methods used during the September 2022 monitoring event.

4.1 SAMPLING PROTOCOLS

Groundwater samples were collected on September 10 through 15 from monitoring wells B1MW through B3MW, TW-2, MW-5R, MW-6, MW-9, MW-10, MW-11R, MW-12 through MW-16, MW-19 through MW-27, MW-29, and MW-30. The following monitoring wells could not be sampled:

- B4MW was damaged and inoperable, with well monument and well cap missing, and gravel packed inside the well riser. The well did not appear to be readily repairable. The status of the well was unchanged from 2021.
- MW-7 could not be accessed due to a trailer parked over the monitoring well; and
- MW-8 could not be located.

During the September 2022 groundwater monitoring event, groundwater samples were collected using low-flow sampling methods as described in the IRA Work Plan.

Prior to sampling, the depth to groundwater was measured in each of the monitoring wells sampled during the 2022 monitoring event. The depth to groundwater was measured to the nearest 0.01 foot from the top of the well casing using an electronic water-level measuring device. The depth-to-groundwater measurements and corresponding groundwater elevations are presented in Table 1. Groundwater elevation contours for the September 2022 monitoring event are depicted on Figure 3, including the approximate direction of groundwater flow.

The monitoring wells were purged and sampled using Proactive Cyclone electric submersible pumps with a Proactive low-flow sampling controller. Before the monitoring wells were purged, the intake of the pump was placed 2 to 3 feet below the top of the groundwater surface measured in each monitoring well. Groundwater was purged from each monitoring well at a flow rate of approximately 100 to 200 milliliters per minute. Field measurements for pH, temperature, specific conductivity, dissolved oxygen, and oxidation-reduction potential were recorded during purging of groundwater prior to collection of groundwater samples from each monitoring well using a YSI 556 MPS water-quality analyzer equipped with a flow-through cell. The water-quality parameter geochemical measurements are presented in Table 2. The pump was lowered as necessary if the water level in a well drew down to the point of losing the prime on the pump.

Groundwater samples were collected after the pH, temperature, and conductivity parameters stabilized. Stabilization for pH was determined as a change of +/-0.1 pH unit between readings for three consecutive measurements, and for temperature and conductivity as a relative percent difference of less than 3 percent between readings for three consecutive measurements.

Following stabilization, groundwater samples were collected by pumping groundwater directly from each monitoring well through dedicated polyethylene tubing into laboratory-prepared containers, taking care to minimize turbulence. Care was taken not to handle the seal or lid of the containers when placing samples into the containers. The containers were filled to eliminate headspace, and the seals and lids were secured. The groundwater samples were placed on ice in coolers under standard chain-of-custody protocols and shipped to SGS North America Inc. in Anchorage, Alaska (SGS). SGS is an ADEC-approved laboratory assigned Contaminated Sites Laboratory Approval No. UST-005.

The sampling pumps were decontaminated after each use using Alconox soap and deionized water.

4.2 SELECTED MONITORING WELLS AND ANALYSES

4.2.1 September 2022 Monitoring Event

During the September 2022 monitoring event, groundwater samples were analyzed for the following:

- GRO using Alaska Method AK 101;
- DRO using Alaska Method AK 102;[2]
- RRO using Alaska Method 103; and
- BTEX using U.S. Environmental Protection Agency (EPA) Method 8021B.

Groundwater samples collected from monitoring wells MW-10, MW-11R, MW-16, MW-26, MW-27, MW-29, and MW-30, the seven monitoring wells closest to the Nushagak River, were analyzed also for volatile organic compounds (VOCs) using EPA Method 8260D, and for polynuclear aromatic hydrocarbons (PAHs) using EPA Method 8270D SIM.

Groundwater samples collected from monitoring wells MW-16, MW-26, MW-27, MW-29, and MW-30 were analyzed also for total nitrate plus nitrite using Standard Method 4500 and for sulfate using EPA Method 300.0. Groundwater samples collected from monitoring wells MW-10, MW-11R, MW-16, and MW-26 also were tested in the field for the natural attenuation parameters ferrous iron (II) and manganese (II) using colorimetric test kits.[3] A number of additional wells in the vicinity of the injection point alignment were planned for measurement of ferrous iron (II) and manganese (II) using colorimetric test kits,[4] but were not included due to suspended carbon injectant material observed in the purge water, which would have influenced the colorimetric-based measurements.

[2] Field notes indicate that DRO and RRO samples were collected from monitoring well MW-16 and for QA/QC duplicate from MW-16 but the laboratory sample receipt form indicated that the samples were not received.

[3] Hach Model IR-20.

[4] Monitoring wells MW-10, MW-16, MW-26, MW-27, MW-29, and MW-30.

Duplicate field QA/quality control (QC) samples were collected from monitoring wells B1MW, MW-11R, and MW-16[5] and analyzed for GRO, DRO, RRO, and BTEX using the methods listed above.

A trip blank was analyzed for GRO, BTEX, and VOCs during the September 2022 monitoring event.

[5] As noted above, field notes indicate that DRO and RRO samples were collected from monitoring well MW-16 and for QA/QC duplicate from MW-16 but the laboratory sample receipt form indicated that the samples were not received.

5.0 GROUNDWATER MONITORING RESULTS

This section presents the results from the September 2022 groundwater monitoring event conducted at the Site.

5.1 GROUNDWATER ELEVATIONS

The depths to groundwater measured in monitoring wells during the September 2022 monitoring event ranged from 2.00 feet below the top of the well casing in monitoring well MW-20 to 8.90 feet below the top of the well casing in monitoring well MW-16 (Table 1). Groundwater elevations measured during the September 2022 monitoring event ranged from 36.33 feet above mean sea level in monitoring well TW-2 to 20.67 feet above mean sea level in monitoring well MW-16.

The groundwater elevation contours based on the September 2022 monitoring event are shown on Figure 3. The general direction of groundwater flow at the Site is south. The hydraulic gradient at the Site is variable, and steepens to the south, adjacent to the Nushagak River. During the September 2022 monitoring event, the hydraulic gradient was 0.044 foot per foot on the southern portion of the Site. The gradient steepened in the southwestern portion of the Site near monitoring well MW-16, and was relatively flat in the northern portion of the Site. There is an apparent localized northwestern component of groundwater flow in the northwestern corner of the Site between monitoring well TW-2 and Main Street. The groundwater flow direction estimated from the groundwater elevations measured during the September 2022 monitoring event was consistent with that from previous monitoring events conducted at the Site.

5.2 2022 GROUNDWATER ANALYTICAL RESULTS

The analytical results from the September 2022 monitoring event are discussed in the following sections. The results from the water-quality parameter geochemical measurements are presented in Table 2. The groundwater analytical results for DRO, RRO, GRO, and BTEX are summarized in Table 3 and presented on Figure 4. The analytical results for VOCs and PAHs are summarized in Tables 4 and 5, respectively. For screening purposes, the analytical results are compared to ADEC Table C groundwater cleanup levels (18 AAC 75.345). The laboratory analytical reports are provided in Appendix B. ADEC laboratory data review checklists for the 2022 monitoring events are provided in Appendix C along with a table summarizing the qualified data, discussed in Section 7, Quality Assurance Data Review. The groundwater analytical results for the September 2022 monitoring event are presented below.

5.2.1 Total Petroleum Hydrocarbons as Diesel-Range Organics

DRO was detected at concentrations exceeding the ADEC Table C cleanup level of 1.5 mg/l in groundwater samples collected from 13 of the 24 monitoring wells sampled and in the duplicate QA/QC samples for monitoring well B1MW. The highest concentrations of DRO detected during the monitoring event were 13.2 and 13.1 mg/l, detected in the groundwater samples collected from monitoring well MW-24 and MW-13, respectively.

5.2.2 Total Petroleum Hydrocarbons as Residual-Range Organics

RRO was detected at concentrations exceeding the ADEC Table C cleanup level of 1.1 mg/l in groundwater samples collected from 16 of the 24 monitoring wells sampled, and in the QA/QC duplicate sample collected from monitoring well B1MW. The highest concentration of RRO detected during the monitoring event was 4.00 mg/l, detected in the groundwater sample collected from monitoring well MW-24.

5.2.3 Total Petroleum Hydrocarbons as Gasoline-Range Organics

GRO was detected at concentrations exceeding the ADEC Table C cleanup level of 2.2 mg/l in groundwater samples collected from 6 of the 25 monitoring wells sampled, and in the QA/QC duplicate sample collected from monitoring well B1MW. The highest concentration of GRO detected during the monitoring event was 14.1 mg/l, detected in the QA/QC duplicate sample collected from monitoring well B1MW.

5.2.4 Benzene, Toluene, Ethylbenzene, and Xylenes

BTEX constituents were detected at concentrations exceeding ADEC Table C cleanup levels in groundwater samples collected during the September 2022 monitoring event as follows:

- Benzene was detected at concentrations exceeding the ADEC Table C cleanup level of 0.0046 mg/l in samples collected from 17 monitoring wells and in the QA/QC duplicate samples collected from monitoring wells B1MW and MW-11R. The highest concentration detected was 1.62 mg/l, an estimated concentration detected in the sample collected from monitoring well B1MW.

- Toluene was not detected at a concentration exceeding the ADEC Table C cleanup level of 1.1 mg/l in any of the groundwater samples collected during the September 2022 monitoring event, with the exception of QA/QC duplicate sample collected from monitoring well B1MW. The concentration detected from the B1MW QA/QC duplicate sample was 1.11 mg/l.

- Ethylbenzene was detected at concentrations exceeding the ADEC Table C cleanup level of 0.015 mg/l in samples collected from eight monitoring wells and in the QA/QC duplicate sample collected from monitoring well B1MW. The highest concentration detected was 0.448 mg/l in the QA/QC duplicate sample collected from monitoring well B1MW.

- Total xylenes were detected at concentrations exceeding the ADEC Table C cleanup level of 0.19 mg/l in samples collected from seven monitoring wells and in the QA/QC duplicate sample collected from monitoring well B1MW. The highest concentration detected was 3.32 mg/l in the QA/QC duplicate sample collected from monitoring well B1MW.

5.2.5 Other Volatile Organic Compounds

Groundwater samples collected from monitoring wells MW-10 MW-11R, MW-16, MW-26, MW-27, MW-29, and MW-30 also were analyzed for VOCs during the September 2022 monitoring

event. Excluding BTEX, which is discussed above, the following VOCs were detected at concentrations exceeding ADEC Table C cleanup levels in one or more groundwater samples collected during the monitoring event (Table 4):

- 1,2,4-trimethylbenzene was detected at concentrations exceeding the ADEC Table C cleanup level of 56 micrograms per liter (µg/l) in three of the seven monitoring wells sampled. The highest concentration detected was 220 µg/l in the sample collected from monitoring well MW-26.

- 1,3,5-trimethylbenzene was detected at concentrations exceeding the ADEC Table C cleanup level of 60 µg/l in two of the seven monitoring wells sampled. The highest concentration detected was 69.2 µg/l in the sample collected from monitoring well MW-30.

- Naphthalene was detected at concentrations exceeding the ADEC Table C cleanup level of 1.7 µg/l in four of the seven monitoring wells sampled. The highest concentration detected was 122 µg/l in the sample collected from monitoring well MW-26.

5.2.6 Polynuclear Aromatic Hydrocarbons

Groundwater samples collected from monitoring wells MW-10, MW-11R, MW-16, MW-26, MW-27, MW-29, and MW-30 were analyzed also for PAHs during the September 2022 monitoring event (Table 5). The following PAHs were detected at concentrations exceeding ADEC Table C cleanup levels in one or more groundwater samples collected during the monitoring event:

- 1-methylnaphthalene was detected at a concentration of 54.3 µg/l in the sample collected from monitoring well MW-26, which exceeds the ADEC Table C cleanup level of 11 µg/l.

- 2-methylnaphthalene was detected at concentration of 63.8 µg/l in the sample collected from monitoring well MW-26, which exceeds the ADEC Table C cleanup level of 36 µg/l.

- Naphthalene, which is both a VOC and a PAH, was detected at concentrations exceeding the ADEC Table C cleanup level of 1.7 µg/l in four of the seven monitoring wells sampled. The highest concentration detected was 69.9 µg/l in the sample collected from monitoring well MW-26.

5.2.7 Equivalent Total Aromatic and Total Aqueous Hydrocarbons

In accordance with the IRA Work Plan, the BTEX[6] and PAH results for groundwater samples collected from monitoring wells MW-10, MW-11R, MW-16, MW-26, MW-27, MW-29, and MW-30 were summed to determine equivalent TAH and TAqH concentrations for comparison to 18 AAC 70 water-quality standards. Monitoring wells MW-10, MW-11R, and MW-26 are up-gradient of the Interim Action injection alignment while monitoring wells MW-16, MW-27, MW-29, and MW-30 are down-gradient.

[6] BTEX concentrations using the EPA Method 8260C analytical results were used for the TAH and TAqH summations.

Equivalent TAH concentrations in groundwater were calculated by summing the BTEX concentrations analyzed using EPA Method 8260D data that exceeded laboratory reporting limits. TAqH concentrations were calculated by summing the concentrations of BTEX and PAH constituents[7] that exceeded laboratory reporting limits. The TAH and TAqH results are provided in Table 6.

The equivalent TAH concentrations for monitoring wells up-gradient of the Interim Action injection alignment, monitoring wells MW-10, MW-11R, and MW-26, were 109.4, 54.3, and 819 µg/l, respectively. The equivalent TAqH concentrations for monitoring wells MW-10, MW-11R, and MW-26 were 109.5, 54.3, and 824 µg/l, respectively. The equivalent TAH concentrations for monitoring wells down-gradient of the Interim Action injection alignment, monitoring wells MW-16, MW-27, MW-29, and MW-30, were 1.45, 0.50, 1,622, and 428 µg/l, respectively. The equivalent TAqH concentrations for monitoring wells MW-16, MW-27, MW-29, and MW-30, were 1.47, 0.50, 1,622, and 428 µg/l, respectively.

5.2.8 Natural Attenuation Parameters

Monitoring wells MW-16, MW-26, MW-27, MW-29, and MW-30 were tested for the natural attenuation parameters total nitrate/nitrite-N and sulfate. Monitoring wells MW-10, MW-11R, MW-16, and MW-26 were field-tested also for the natural attenuation parameters ferrous iron (II), and manganese (II).

The select monitoring wells are located immediately up- or down-gradient of the injection alignment. Dissolved-oxygen content and other geochemical parameters also were measured during the sampling of each Site monitoring well. The natural attenuation parameter measurements and analytical results are provided in Table 2.

Dissolved-oxygen content measured in groundwater in Site monitoring wells ranged from -0.46 mg/l in monitoring well MW-24 to 5.36 mg/l in monitoring well TW-2. With the exceptions of monitoring wells TW-2 and MW-20, the dissolved-oxygen levels measured in groundwater were less than 2 mg/l, and typically were less than 1 mg/l, indicating that predominantly anoxic to anaerobic conditions exist at the Site. The oxidation-reduction potential measurements at these monitoring wells generally correlate with the dissolved-oxygen measurements, further supporting the anoxic to anaerobic conditions.

Total nitrate/nitrite-N concentrations in groundwater samples collected from monitoring wells sampled for natural attenuation parameters ranged from an estimated value of less than 0.100 mg/l in the groundwater sample collected from monitoring well MW-26 to 0.339 mg/l in monitoring well MW-16. Sulfate concentrations in groundwater samples collected from monitoring wells sampled for natural attenuation parameters ranged from an estimated value of 0.0750 mg/l in the

[7] The PAH list cited in 18 AAC 70.020 for summation for determining TAqH concentrations comprises the PAHs listed in EPA Method 610, which are acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene.

groundwater sample collected from monitoring well MW-29 to 7.53 mg/l in monitoring well MW-16. The low concentrations are consistent with the dissolved oxygen and oxidation-reduction potential measurements, which indicate anoxic to anaerobic conditions. Elevated sulfate concentrations were measured in monitoring wells MW-27, MW-29, and MW-30 in September 2020 during the Interim Action injections activities, which included injection of an electron-acceptor blend consisting of ammonium sulfate and sodium nitrate mixed into the PetroFix solution. The sulfate concentrations detected in groundwater samples from these monitoring wells decreased in 2021 and 2022, further suggesting that sulfate is being used as an electron receptor for biodegradation in the down-gradient portion of the Site.

Ferrous iron (II) concentrations in groundwater samples measured for natural attenuation parameters ranged from 1.75 mg/l in monitoring well MW-16 to 5.5 mg/l in monitoring well MW-10. Manganese (II) concentrations in groundwater samples measured for natural attenuation parameters ranged from 0.8 mg/l in monitoring well MW-26 to 1.7 mg/l in monitoring wells MW-11R and MW-16. The production of ferrous iron (II) is an indication that ferric iron is being used as an electron receptor at the Site and is consistent with the other natural attenuation parameters cited above.

6.0 SEEP SAMPLING METHOD AND RESULTS

6.1 SEEP SAMPLING METHOD

Water discharging from the seep near the southwestern corner of the Site was sampled on September 14, 2022. A depression was previously formed by digging out some of the rock fill material at the surface to allow for sufficient depth for sample collection. The seep water samples were collected by submerging a dedicated non-preserved sample jar below the water surface, opening the jar cap, completely filling the jar, and recapping while it was submerged. The jar was then used to fill the laboratory-supplied sample jars for the selected analyses.

Seep water sample SEEP-091422 was analyzed for BTEX using EPA Method 8021B, and for PAHs using EPA Method 8270D SIM.

6.2 SEEP SAMPLING RESULTS

Each of the BTEX constituents were detected at concentrations exceeding laboratory reporting limits in the water samples collected from the seep in September 2022. The BTEX results for the seep sample are included with the groundwater analytical results in Tables 3 and 6.

1-methylnaphthalene, 2-methylnaphthalene and naphthalene were detected in the seep water sample collected during the September 2022 monitoring event. The PAH results for the seep water sample are provided in Table 5 along with the groundwater results.

A TAH concentration of 61.4 µg/l was calculated by summing the BTEX concentrations. A TAqH concentration of 61.4 µg/l also was calculated by summing the concentrations of BTEX and select PAH constituents[8] that exceeded laboratory reporting limits.

[8] The PAH list cited in 18 AAC 70.020 for summation for determining TAqH concentrations comprises the PAHs listed in EPA Method 610: acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene.

7.0 QUALITY ASSURANCE DATA REVIEW

This section provides a summary of QA data validation findings for environmental samples analyzed by SGS for the 2022 monitoring event. Data validation was performed for Sample Delivery Groups 1225683 and 1225733 for the September 2022 data.

An ADEC Contaminated Sites Laboratory Data Review Checklist was completed for each Sample Delivery Group in accordance with Technical Memorandum, Data Quality Objectives, Checklists, Quality Assurance Requirements for Laboratory Data, and Sample Handling (ADEC 2017). The checklists are provided in Appendix C. The review of project analytical data was performed using the National Functional Guidelines for Organic Superfund Methods Data Review (EPA 2017a), and National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA 2017b).

7.1 OVERALL DATA ASSESSMENT

All data are of known quality and are acceptable for use. No results were rejected as a result of this data assessment. Data qualified during this validation effort are summarized in Table C1 of Appendix C, and discussed in the sections below. The qualified results also are reflected in the analytical results in Tables 2 through 5.

7.2 DATA QUALIFIER DEFINITIONS

Following are definitions of data qualifiers used during data validation:

- J (estimated): The result is an estimated quantity based on non-conformances identified during data validation.
- J+ (estimated high bias): The result is an estimated quantity and the result may be biased high based on non-conformances identified during data validation.
- U (not detected): The analyte was analyzed for and not detected at a concentration exceeding the laboratory reporting limit.

7.3 COMPLETENESS

Completeness is expressed as the ratio of valid results to the amount of data expected to be obtained under normal conditions. Completeness is determined by assessing the number of samples for which valid results were obtained versus the number of samples that were submitted to the laboratory for analysis. Valid results are results that are determined to be usable during the data validation review process.

The completeness of this data set is 100 percent. However as noted in Section 4, field notes indicate that DRO and RRO samples were collected from monitoring well MW-16 and for QA/QC duplicate from MW-16 but the laboratory sample receipt form indicated that the samples were not received.

7.4 QUALIFIED DATA ASSESSMENT

This section provides a brief discussion of the non-conformances identified during the data validation of analytical data in Sample Delivery Groups 1225683 and 1225733.

7.4.1 Sample Delivery Group 1225683

Sample Preservation

Samples MW26-091522, MW29-091522, and MW30-091522 for Alaska Methods AK 102 and AK 103 analyses were received by the laboratory in unpreserved sample containers so the analyses were conducted without preservation. Therefore, the DRO and RRO results for these samples were qualified as estimates.

Method Blanks

DRO was detected in each of the method blanks for the Alaska Method AK 102 analyses concentrations less than the limit of quantitation (LOQ), but exceeding the method detection limit. Associated project samples where DRO was detected at a concentration less than the LOQ but exceeding the method detection limit were qualified as not detected at the LOQ based on the method blank contamination.

RRO was detected in each of the method blanks for the Alaska Method AK 102 analyses at concentrations exceeding the LOQ. Project samples where RRO was detected at a concentration less than the associated method blank result were reported at the sample result but qualified as not detected based on the method blank contamination. Project samples where RRO was detected at a concentration exceeding the associated method blank result were reported as an estimate with a high bias.

One of the method blanks for the EPA Method 8270D SIM analyses contained 1-methylnaphthalene, 2-methylnaphthalene, and fluoranthene at concentrations less than the LOQ, but exceeding the method detection limit. A second method blank for the EPA Method 8270D SIM analyses contained 2-methylnaphthalene at a concentration less than the LOQ, but exceeding the method detection limit. The associated project samples here 1-methylnaphthalene, 2-methylnaphthalene, and/or fluoranthene were detected at a concentration less than the LOQ, but exceeding the method detection limit were qualified as not detected at the LOQ based on the method blank contamination.

Table C1 of Appendix C identifies the affected samples.

Surrogates

The surrogate recovery in samples MW19-091422, MW23-091422, MW24-091422, MW26-091522, MW26-09152219, and MW30-091522 for Alaska Method AK 101 analyses exceeded the upper control limit. The GRO results for these samples were qualified as estimated with a potential high bias (J+).

The surrogate recoveries for EPA Method 8021B analyses in samples MW19-091422, MW23-091422, MW24-091422, MW26-091522, MW26-09152219, and MW30-091522 exceeded the upper control limits. All BTEX results for these samples were qualified as estimated with a potential high bias (J+).

Surrogate recovery for fluoranthene-d10 for EPA Method 8270D SIM analyses for sample MW10-091422 was below the lower control limit. The affected PAH results for these samples were qualified as estimated.

Field QA/QC Duplicates

The relative percent differences (RPDs) between the results for the field duplicate QA/QC samples and their associated samples were evaluated using the following equation:

$$RPD = \left[\frac{|S - D|}{(S + D) \div 2} \right] \times 100$$

Where: RPD = Relative Percent Difference
S = Sample Result (original)
D = Duplicate Sample Result

The RPDs for sample B1MW-091122 and its duplicate B1MW-091122-D, sample MW11R-091422 and its duplicate MW11R-091422-D and for sample MW16-091422 and its duplicate MW16-091422-D were within the recommended 30 percent objective.

7.4.2 Sample Delivery Group 1225733

Method Blanks

RRO was detected in the method blanks for the Alaska Method AK 102 analyses at a concentration exceeding the LOQ. RRO was detected in sample MW20-091322 at a concentration less than the associated method blank and was reported at the sample result but qualified as not detected based on the method blank contamination. RRO was detected in sample MW6-091322 at a concentration exceeding the associated method blank result and was reported as an estimate with a high bias.

.

8.0 INVESTIGATION-DERIVED WASTE HANDLING

Wastewater generated by the sampling of the monitoring wells at the Site in 2022 was temporarily stored in one labeled 55-gallon drum at the Site. The wastewater was classified as nonhazardous based on the constituent concentrations in the samples collected during the 2022 field activities. The drummed waste materials were shipped via Alaska Marine Lines barge in October 2022 to Marine Vacuum Service, Inc. in Seattle, Washington for treatment or disposal. A certificate of disposal is provided in Appendix D.

During the 2022 groundwater monitoring event, a labeled 55-gallon drum containing groundwater sampling purge and decontamination water was emptied onto the ground surface by a subcontractor of the current owner and operator of the terminal. At the time it was emptied, the drum contained approximately 25 gallons of purge and decontamination water accumulated during groundwater sampling between September 10 and 12, 2022. Analytical results from groundwater samples collected between September 10 and 12, 2022 confirm that the drum contents were nonhazardous. The incident was communicated to the Site's current owner and operator to prevent recurrence, and Peter Campbell of ADEC was notified by email on September 29, 2022.

Disposable sampling supplies and personal protective equipment were classified as nonhazardous, placed into a dumpster, and disposed of as municipal solid waste.

9.0 DISCUSSION

The assessment of suspended carbon completed in June 2022 was conducted to determine whether mitigation measures may be required to obtain representative groundwater samples from monitoring wells where suspended carbon was observed during sampling activities following the Interim Action injection of PetroFix at the Site in 2020. The results of the carbon assessment, which was conducted following methods recommended by Regenesis, the manufacturer of the PetroFix product, indicated that the residual suspended carbon in groundwater proximal to the injection alignment should not have a significant effect on dissolved-phase petroleum hydrocarbons in groundwater samples collected from adjacent monitoring wells. Therefore, mitigation measures to decrease suspended carbon concentrations were deemed not necessary prior to conducting the Site-wide groundwater monitoring event in September 2022. Based on visual observations, the amount of suspended carbon from the Petrofix injections is continuing to decline as expected, and additional assessment is not anticipated.

DRO was detected at concentrations exceeding ADEC Table C cleanup levels in groundwater samples collected from monitoring wells throughout the Site during the September 2022 monitoring event, with the highest concentrations detected in groundwater samples collected from the north-central and southwestern portions of the Site. The highest concentrations were detected in groundwater samples collected from monitoring well MW-13, located south of the day tanks for the retail station, and from monitoring wells MW-23 and MW-24 in the southwestern portion of the Site (Figure 4). The DRO concentrations detected in these wells were less than the previous historical high concentrations detected during the 2020 monitoring event.

RRO was detected in groundwater at concentrations exceeding ADEC Table C cleanup levels during the September 2022 monitoring event in samples collected from wells in various locations at the Site, and is co-located with DRO in the samples. With the exception of monitoring wells MW-6, MW-21, and MW-22, groundwater samples containing RRO at concentrations exceeding ADEC Table C cleanup levels had higher DRO results relative to the RRO results. RRO appears to be associated with the DRO rather than being from a separate source(s) based on a review of chromatograms by SGS in 2021 and the co-detections in the samples of DRO and RRO. The RRO results at monitoring well MW-6 are anomalous in that neither DRO nor RRO has been detected prior to 2021 at concentrations exceeding ADEC Table C cleanup levels in groundwater samples collected from monitoring well MW-6. Although the RRO results for September 2022 for monitoring wells MW-21 and MW-22 only slightly exceed the ADEC Table C cleanup level of 1.1 mg/l, RRO has not previously been detected at concentrations exceeding the ADEC Table C cleanup level in these monitoring wells.

GRO was detected at concentrations exceeding the ADEC Table C cleanup level in groundwater samples collected during the September 2022 monitoring event from monitoring well B1MW, located near the UST formerly associated with the former Dillingham Auto fueling facility; monitoring wells MW-23 and MW-24, in the southwestern portion of the Site; and monitoring wells MW-26, MW-29, and MW-30, located within the tank farm secondary containment around

Tank 10. Tank 10 was not in service at the time of the 2020, 2021, or 2022 sampling activities. The highest concentration of GRO detected in the September 2022 groundwater samples was from monitoring well B1MW.

Benzene was detected at concentrations exceeding ADEC Table C cleanup levels in groundwater samples collected from monitoring wells throughout the Site during the September 2022 monitoring event, with the highest concentration detected in the groundwater samples collected from monitoring well B1MW. Toluene was only detected at a concentration exceeding the ADEC Table C cleanup level during the September 2022 monitoring event in the QA/QC duplicate groundwater sample collected from monitoring well B1MW. Ethylbenzene and xylenes were detected at concentrations exceeding Table C cleanup levels in groundwater samples collected from monitoring wells at various locations at the Site, with the highest concentrations from monitoring well B1MW.

VOC were detected in groundwater samples at concentrations exceeding the ADEC Table C cleanup level during the September 2022 monitoring event as follows:

- 1,2,4-trimethylbenzene in samples from monitoring wells MW-26, MW-29, and MW-30, located within the Tank 10 containment area;
- 1,3,5-trimethylbenzene in samples from monitoring wells MW-26 and MW-30; and
- Naphthalene in samples from monitoring wells MW-10, MW-26, MW-29, and MW-30.

PAHs were detected in groundwater samples at concentrations exceeding the ADEC Table C cleanup level during the September 2022 monitoring event as follows:

- 1-methylnaphthalene and 2-methylnaphthalene in the sample from monitoring well MW-26; and
- Naphthalene, which is both a VOC and a PAH, in samples from monitoring wells MW-10, MW-26, MW-29, and MW-30.

The VOCs and PAHs detected at concentrations exceeding ADEC Table C cleanup levels during the September 2022 monitoring event are common petroleum hydrocarbon constituents associated with gasoline or diesel fuels (Tables 4 and 5, respectively). The monitoring wells with the highest concentrations of VOCs detected in groundwater samples during the September 2022 monitoring event also had elevated GRO concentrations.

The concentration of 61.4 µg/l, calculated for both TAH and TAqH for the seep water sample collected during the September 2022 monitoring event, exceeds the ADEC water quality TAH and TAqH criteria of 10 and 15 µg/l, respectively, for petroleum hydrocarbons, oils, and grease for marine water uses for growth and propagation of fish, shellfish, other aquatic life, and wildlife in 18 AAC 70.020(b)(17)(C). The TAH and TAqH concentrations calculated for the September 2022 seep sample are significantly lower than those calculated for the seep sample collected in September 2020.

10.0 REFERENCES

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11.0 LIMITATIONS

11.1 GENERAL LIMITATIONS

The conclusions contained in this report/assessment are based on professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location. The conclusions contained herein are subject to the following inherent limitations:

- **Accuracy of Information**. Farallon obtained, reviewed, and evaluated certain information used in this report/assessment from sources that were believed to be reliable. Farallon's conclusions, opinions, and recommendations are based in part on such information. Farallon's services did not include verification of its accuracy or authenticity. Should the information upon which Farallon relied prove to be inaccurate or unreliable, Farallon reserves the right to amend or revise its conclusions, opinions, and/or recommendations.

Reconnaissance and/or Characterization. Farallon performed a reconnaissance and/or characterization of the Site that is the subject of this report/assessment to document current conditions. Farallon focused on areas deemed more likely to exhibit hazardous materials conditions. Contamination may exist in other areas of the Site that were not investigated or were inaccessible. Site activities beyond Farallon's control could change at any time after the completion of this report/assessment.

For the foregoing reasons, Farallon cannot and does not warrant or guarantee that the Site is free of hazardous or potentially hazardous substances or conditions, or that latent or undiscovered conditions will not become evident in the future. Farallon's observations, findings, and opinions can be considered valid only as of the date of the report.

This report/assessment has been prepared in accordance with the contract for services between Farallon and Delta Western, LLC, and currently accepted industry standards. No other warranties, representations, or certifications are made.

11.2 LIMITATION ON RELIANCE BY THIRD PARTIES

Reliance by third parties is prohibited. This report/assessment has been prepared for the exclusive use of Delta Western, LLC to address the unique needs of Delta Western, LLC at the SITE at a specific point in time.

This is not a general grant of reliance. No one other than Delta Western, LLC may rely on this report unless Farallon agrees in advance to such reliance in writing. Any unauthorized use, interpretation, or reliance on this report/assessment is at the sole risk of that party and Farallon will have no liability for such unauthorized use, interpretation, or reliance.

FIGURES

2022 GROUNDWATER MONITORING REPORT
Delta Western Dillingham
Dillingham, Alaska

Farallon PN: 1010-004

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FIGURE 1

SITE VICINITY MAP
DELTA WESTERN TERMINAL
DILLINGHAM, ALASKA

FARALLON PN: 1010-004

Drawn By: NM | Checked By: PG | Date: 12/18/2019 | Disk Reference: 1010-004

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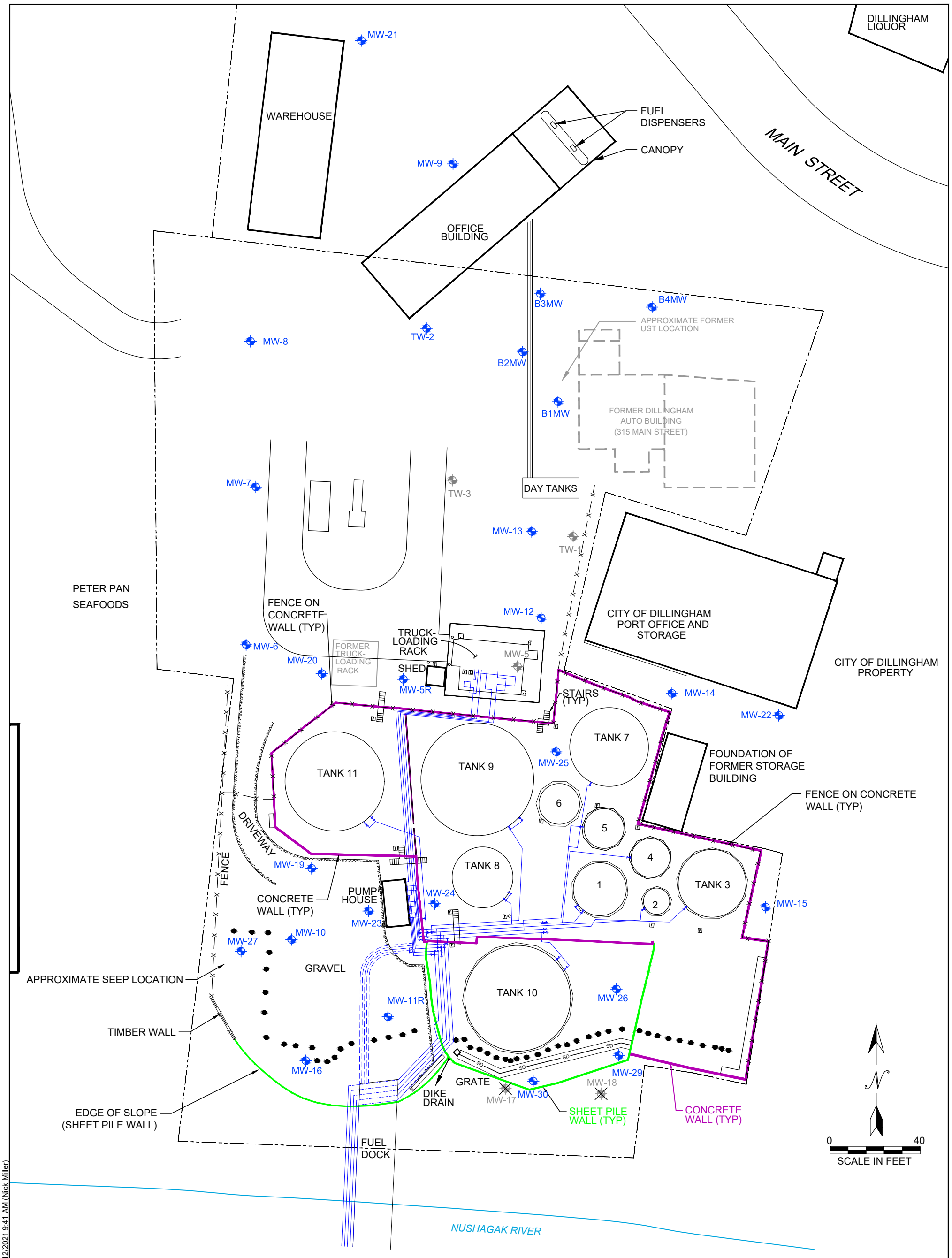

LEGEND

- PROPERTY BOUNDARY
- PRODUCT PIPING
- APPROXIMATE LOCATION OF SUSPECTED ABANDONED BURIED PIPELINES
- FENCE
- STORM DRAIN
- INJECTION POINT
- MW-18 MONITORING WELL
- MW-5 MONITORING WELL (DECOMMISSIONED)
- MW-17 MONITORING WELL (DESTROYED)

ALL LOCATIONS ARE APPROXIMATE

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FIGURE 2

SITE PLAN
DELTA WESTERN TERMINAL
DILLINGHAM, ALASKA

FARALLON PN: 1010-004

Drawn By: NM | Checked By: PG | Date: 8/12/2021 | Disk Reference: 1010-004

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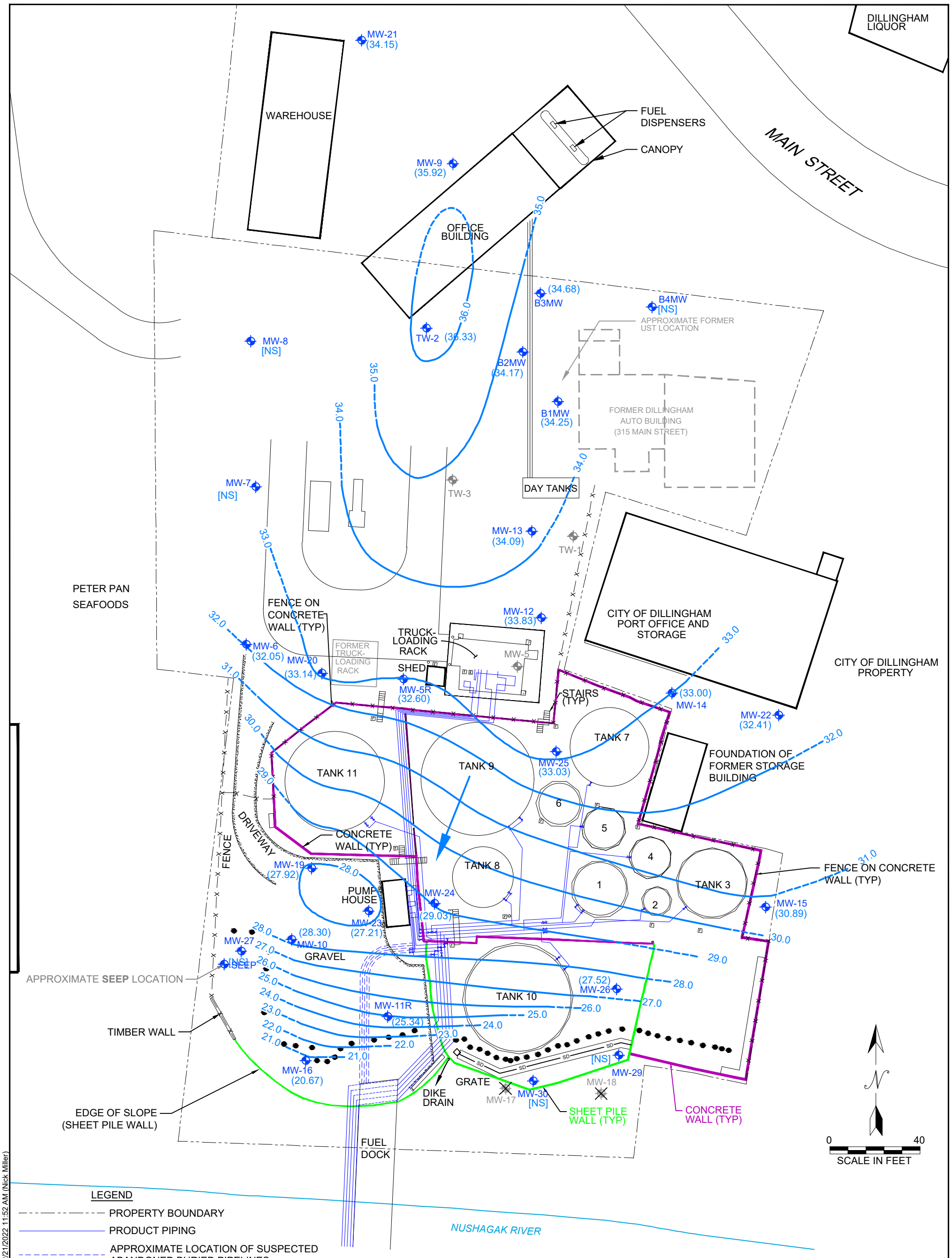

LEGEND

- PROPERTY BOUNDARY
- PRODUCT PIPING
- APPROXIMATE LOCATION OF SUSPECTED ABANDONED BURIED PIPELINES
- FENCE
- STORM DRAIN
- INJECTION POINT
- MW-18 MONITORING WELL
- MW-5 MONITORING WELL (DECOMMISSIONED)
- MW-17 MONITORING WELL (DESTROYED)
- [NS] NOT SURVEYED
- (20.67) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 21.0 GROUNDWATER ELEVATION CONTOUR DASHED WHERE INFERRED
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW

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FIGURE 3

GROUNDWATER ELEVATION CONTOUR MAP
SEPTEMBER - 2022
DELTA WESTERN TERMINAL
DILLINGHAM, ALASKA

FARALLON PN: 1010-004

Drawn By: NM | Checked By: SB | Date: 12/16/2022 | Disk Reference: 1010-004

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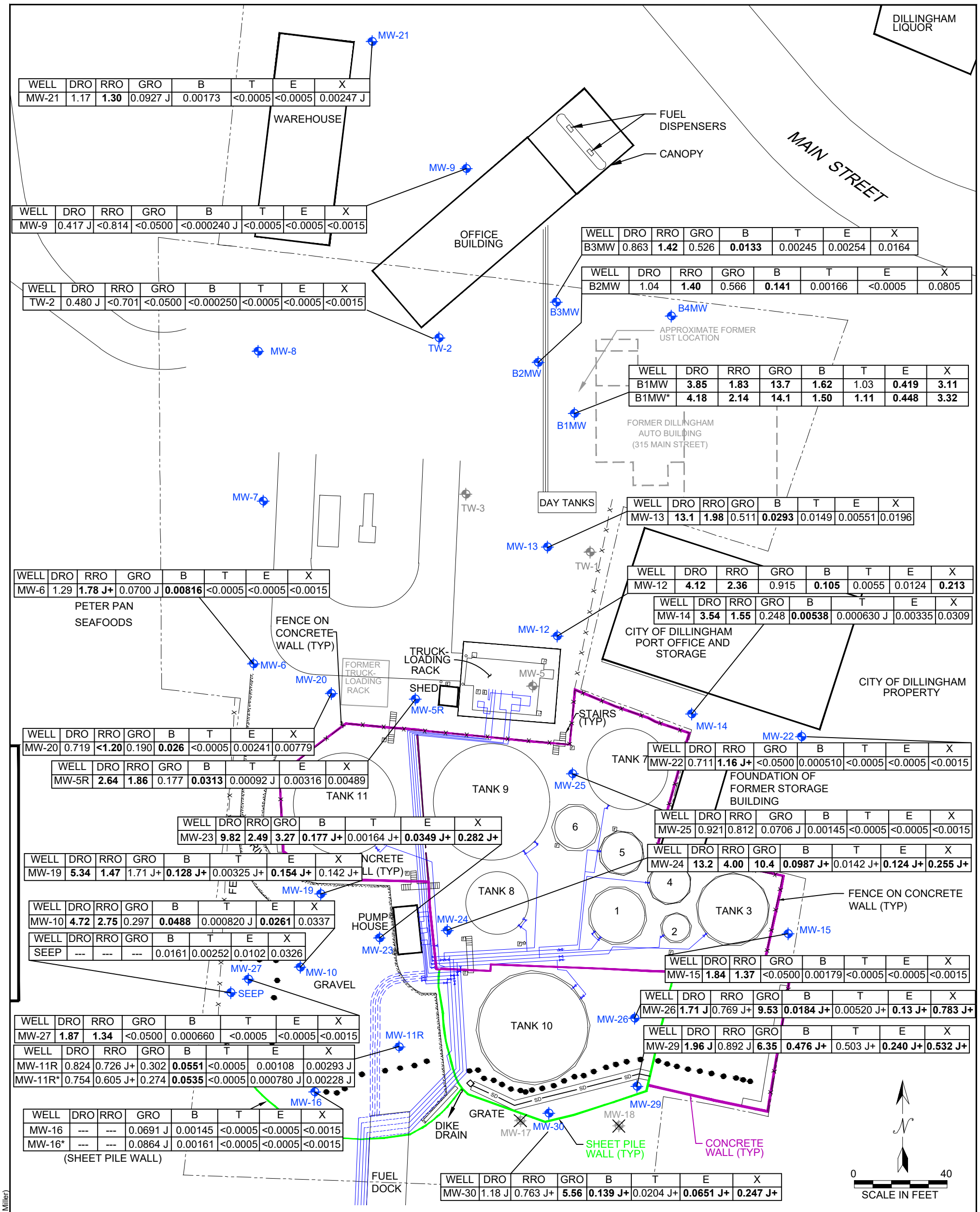

WELL	DRO	RRO	GRO	B	T	E	X
MW-21	1.17	**1.30**	0.0927 J	0.00173	<0.0005	<0.0005	0.00247 J

WELL	DRO	RRO	GRO	B	T	E	X
MW-9	0.417 J	<0.814	<0.0500	<0.000240 J	<0.0005	<0.0005	<0.0015

WELL	DRO	RRO	GRO	B	T	E	X
TW-2	0.480 J	<0.701	<0.0500	<0.000250	<0.0005	<0.0005	<0.0015

WELL	DRO	RRO	GRO	B	T	E	X
B3MW	0.863	**1.42**	0.526	**0.0133**	0.00245	0.00254	0.0164

WELL	DRO	RRO	GRO	B	T	E	X
B2MW	1.04	**1.40**	0.566	**0.141**	0.00166	<0.0005	0.0805

WELL	DRO	RRO	GRO	B	T	E	X
B1MW	**3.85**	**1.83**	**13.7**	**1.62**	1.03	**0.419**	**3.11**
B1MW*	**4.18**	**2.14**	**14.1**	**1.50**	**1.11**	**0.448**	**3.32**

WELL	DRO	RRO	GRO	B	T	E	X
MW-13	**13.1**	**1.98**	0.511	**0.0293**	0.0149	0.00551	0.0196

WELL	DRO	RRO	GRO	B	T	E	X
MW-12	**4.12**	**2.36**	0.915	**0.105**	0.0055	0.0124	**0.213**

WELL	DRO	RRO	GRO	B	T	E	X
MW-14	**3.54**	**1.55**	0.248	**0.00538**	0.000630 J	0.00335	0.0309

WELL	DRO	RRO	GRO	B	T	E	X
MW-6	1.29	**1.78 J+**	0.0700 J	**0.00816**	<0.0005	<0.0005	<0.0015

WELL	DRO	RRO	GRO	B	T	E	X
MW-20	0.719	**<1.20**	0.190	**0.026**	<0.0005	0.00241	0.00779

WELL	DRO	RRO	GRO	B	T	E	X
MW-5R	**2.64**	**1.86**	0.177	**0.0313**	0.00092 J	0.00316	0.00489

WELL	DRO	RRO	GRO	B	T	E	X
MW-22	0.711	**1.16 J+**	<0.0500	0.000510	<0.0005	<0.0005	<0.0015

WELL	DRO	RRO	GRO	B	T	E	X
MW-25	0.921	0.812	0.0706 J	0.00145	<0.0005	<0.0005	<0.0015

WELL	DRO	RRO	GRO	B	T	E	X
MW-23	**9.82**	**2.49**	**3.27**	**0.177 J+**	0.00164 J+	**0.0349 J+**	**0.282 J+**

WELL	DRO	RRO	GRO	B	T	E	X
MW-24	**13.2**	**4.00**	**10.4**	**0.0987 J+**	0.0142 J+	**0.124 J+**	**0.255 J+**

WELL	DRO	RRO	GRO	B	T	E	X
MW-19	**5.34**	**1.47**	1.71 J+	**0.128 J+**	0.00325 J+	**0.154 J+**	0.142 J+

WELL	DRO	RRO	GRO	B	T	E	X
MW-10	**4.72**	**2.75**	0.297	**0.0488**	0.000820 J	**0.0261**	0.0337

WELL	DRO	RRO	GRO	B	T	E	X
SEEP	---	---	---	0.0161	0.00252	0.0102	0.0326

WELL	DRO	RRO	GRO	B	T	E	X
MW-15	**1.84**	**1.37**	<0.0500	0.00179	<0.0005	<0.0005	<0.0015

WELL	DRO	RRO	GRO	B	T	E	X
MW-26	**1.71 J**	0.769 J+	**9.53**	**0.0184 J+**	0.00520 J+	**0.13 J+**	**0.783 J+**

WELL	DRO	RRO	GRO	B	T	E	X
MW-29	**1.96 J**	0.892 J	**6.35**	**0.476 J+**	0.503 J+	**0.240 J+**	**0.532 J+**

WELL	DRO	RRO	GRO	B	T	E	X
MW-27	**1.87**	**1.34**	<0.0500	0.000660	<0.0005	<0.0005	<0.0015

WELL	DRO	RRO	GRO	B	T	E	X
MW-11R	0.824	0.726 J+	0.302	**0.0551**	<0.0005	0.00108	0.00293 J
MW-11R*	0.754	0.605 J+	0.274	**0.0535**	<0.0005	0.000780 J	0.00228 J

WELL	DRO	RRO	GRO	B	T	E	X
MW-16	---	---	0.0691 J	0.00145	<0.0005	<0.0005	<0.0015
MW-16*	---	---	0.0864 J	0.00161	<0.0005	<0.0005	<0.0015

(SHEET PILE WALL)

WELL	DRO	RRO	GRO	B	T	E	X
MW-30	1.18 J	0.763 J+	**5.56**	**0.139 J+**	0.0204 J+	**0.0651 J+**	**0.247 J+**

LEGEND

- PROPERTY BOUNDARY
- PRODUCT PIPING
- APPROXIMATE LOCATION OF SUSPECTED ABANDONED BURIED PIPELINES
- FENCE
- STORM DRAIN
- INJECTION POINT
- MW-18 MONITORING WELL
- MW-5 MONITORING WELL (DECOMMISSIONED)
- MW-17 MONITORING WELL (DESTROYED)

ALL GROUNDWATER ANALYTICAL RESULTS IN MILLIGRAMS PER LITER (mg/L)

DRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL-RANGE ORGANICS
RRO = TPH AS RESIDUAL-RANGE ORGANICS
GRO = TPH AS GASOLINE-RANGE ORGANICS

B = BENZENE T = TOLUENE
E = ETHYLBENZENE X = TOTAL XYLENES

WELL	DRO	RRO	GRO	B	T	E	X
MW-24	**13.2**	**4.00**	**10.4**	**0.0987 J+**	0.0142 J+	**0.124 J+**	**0.255 J+**

= GROUNDWATER ANALYTICAL RESULTS

BOLD = INDICATES CONCENTRATIONS EXCEED ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION TABLE C GROUNDWATER CLEANUP LEVEL PROVIDED IN TITLE 18 OF CHAPTER 75.345 OF THE ALASKA ADMINISTRATIVE CODE

< = DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE REPORTING LIMIT LISTED
J = RESULT IS AN ESTIMATE
J+ = RESULT IS AN ESTIMATED VALUE WITH A POTENTIAL HIGH BIAS
* = DENOTES DUPLICATE QUALITY ASSURANCE/QUALITY CONTROL SAMPLE
--- = DENOTES SAMPLE NOT ANALYZED

ALL LOCATIONS ARE APPROXIMATE

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FIGURE 4

GROUNDWATER ANALYTICAL RESULTS
FOR DRO, RRO, GRO, AND BTEX
SEPTEMBER 2022
DELTA WESTERN TERMINAL
DILLINGHAM, ALASKA

FARALLON PN: 1010-004

Drawn By: NM Checked By: SB Date: 01/20/2023 Disk Reference: 1010-004

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TABLES

2022 GROUNDWATER MONITORING REPORT
Delta Western Dillingham
Dillingham, Alaska

Farallon PN: 1010-004

Table 1
Summary of Groundwater Elevation Data – November 2016 through September 2022
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Groundwater Elevation (feet)[1]
B1MW	32.50	11/15/2016	NM	NM
		6/16/2017	2.34	30.16
	37.60	8/16/2017	2.89	34.71
		10/20/2017	2.70	34.90
		9/15/2018	3.30	34.30
		10/1/2019	2.03	35.57
		9/9/2020	2.99	34.61
		6/29/2021	2.60	35.00
		9/11/2022	3.35	34.25
B2MW	37.62	8/16/2017	2.76	34.86
		9/15/2018	3.24	34.38
		10/1/2019	2.07	35.55
		9/9/2020	3.21	34.41
		6/26/2021	2.7	34.92
		9/11/2022	3.45	34.17
B3MW	39.46	6/16/2017	3.53	35.93
	39.60	8/16/2017	3.99	35.61
		10/20/2017	3.79	35.81
		9/15/2018	4.75	34.85
		10/1/2019	3.15	36.45
		9/9/2020	4.40	35.20
		6/29/2021	4.08	35.52
		9/11/2022	4.92	34.68
B4MW	32.27	11/15/2016	NM	NM
		6/16/2017	3.05	29.22
	38.72	8/16/2017	3.49	35.23
		9/15/2018	2.88	35.84
		10/1/2019	2.75	35.97
		9/9/2020	4.05	34.67
TW-2	40.70	11/15/2016	5.32	35.38
		6/16/2017	3.87	36.83
	40.73	8/16/2017	4.01	36.72
		10/20/2017	3.85	36.88
		9/15/2018	5.38	35.35
		10/1/2019	2.44	38.29
		9/9/2020	3.10	37.63
		6/29/2021	3.27	37.46
		9/25/2021	6.39	34.34
		9/10/2022	4.40	36.33
MW-5R	36.00	11/15/2016	3.80	32.20
		6/16/2017	3.55	32.45
	36.25	8/16/2017	3.53	32.72
		10/20/2017	3.45	32.80
		9/15/2018	3.81	32.44
		10/1/2019	2.48	33.77
		9/9/2020	3.34	32.91
		6/30/2021	2.87	33.38
		9/12/2022	3.65	32.60

Table 1
Summary of Groundwater Elevation Data – November 2016 through September 2022
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Groundwater Elevation (feet)[1]
MW-6	34.66	11/15/2016	3.26	31.40
		6/16/2017	2.88	31.78
	34.85	8/16/2017	3.05	31.80
		10/20/2017	3.01	31.84
		9/15/2018	NM	NM
		10/1/2019	1.28	33.57
		9/9/2020	1.94	32.91
		6/30/2021	1.68	33.17
		9/13/2022	2.80	32.05
MW-7	36.01	11/15/2016	5.34	30.67
		6/16/2017	5.36	30.65
	36.10	8/16/2017	5.39	30.71
		10/20/2017	5.34	30.76
		9/15/2018	5.38	30.72
		10/1/2019	5.34	30.76
		9/9/2020	6.35	29.75
		6/30/2021	5.23	30.87
MW-8	37.12	11/15/2016	2.21	34.91
		6/16/2017	0.60	36.52
	37.21	8/16/2017	0.95	36.26
		10/20/2017	0.99	36.22
		9/15/2018	2.66	34.55
		10/1/2019	0.28	36.93
		9/9/2020	0.78	36.43
		6/29/2021	0.71	36.50
MW-9	NS	11/15/2016	5.77	NS
	NS	6/16/2017	2.99	NS
	40.86	8/16/2017	3.81	37.05
		10/20/2017	3.8	37.06
		9/15/2018	5.38	35.48
		10/1/2019	3.43	37.43
		9/9/2020	3.65	37.21
		6/29/2021	4.12	36.74
		9/25/2021	5.80	35.06
		9/10/2022	4.94	35.92
MW-10	30.39	11/15/2016	4.17	26.22
		6/16/2017	3.18	27.21
	30.63	8/16/2017	3.05	27.58
		10/20/2017	2.82	27.81
		9/15/2018	4.51	26.12
		10/1/2019	2.23	28.40
		9/9/2020	2.90	27.73
		7/2/2021	2.40	28.23
		9/25/2021	4.19	26.44
		9/14/2022	2.33	28.30

Table 1
Summary of Groundwater Elevation Data – November 2016 through September 2022
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Groundwater Elevation (feet)[1]
MW-11R	NS	11/15/2016	7.04	NS
	NS	6/16/2017	6.24	NS
	29.59	8/16/2017	6.19	23.40
		10/20/2017	6.70	22.89
		9/15/2018	6.45	23.14
		10/1/2019	5.23	24.36
		9/9/2020	5.71	23.88
		7/2/2021	3.04	26.55
		9/26/2021	7.15	22.44
		9/14/2022	4.25	25.34
MW-12	NS	11/16/2016	3.64	NS
	NS	6/16/2017	3.14	NS
	36.97	8/16/2017	3.38	33.59
		10/20/2017	3.21	33.76
		11/16/2016	3.22	NS
		9/15/2018	3.60	33.37
		10/1/2019	2.46	34.51
		9/9/2020	3.09	33.88
		6/30/2021	2.89	34.08
		9/25/2021	4.35	32.62
		9/12/2022	3.14	33.83
MW-13	NS	11/16/2016	3.22	NS
	NS	6/16/2017	3.22	NS
	36.96	8/16/2017	3.31	33.65
		10/20/2017	3.13	33.83
		9/15/2018	3.44	33.52
		10/1/2019	2.46	34.50
		9/9/2020	3.29	33.67
		6/30/2021	2.86	34.10
		9/12/2022	2.87	34.09
MW-14	NS	11/15/2016	4.43	NS
	NS	6/16/2017	3.90	NS
	37.72	8/16/2017	4.23	33.49
		10/20/2017	4.14	33.58
		9/15/2018	4.53	33.19
		10/1/2019	3.55	34.17
		9/11/2020	4.79	32.93
		7/2/2021	3.8	33.92
		9/13/2022	4.72	33
MW-15	NS	11/15/2016	2.35	NS
	NS	6/16/2017	2.32	NS
	33.69	8/16/2017	2.37	31.32
		10/20/2017	2.30	31.39
		9/15/2018	2.88	30.81
		10/1/2019	1.75	31.94
		9/10/2020	2.27	31.42
		7/1/2021	2.04	31.65
		9/13/2022	2.80	30.89

Table 1
Summary of Groundwater Elevation Data – November 2016 through September 2022
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Groundwater Elevation (feet)[1]
MW-16	NS	11/15/2016	10.27	NS
	NS	6/16/2017	8.76	NS
	29.57	8/16/2017	9.84	19.73
		10/20/2017	10.07	19.50
		9/15/2018	10.00	19.57
		10/1/2019	9.41	20.16
		9/9/2020	10.17	19.40
		7/2/2021	9.57	20.00
		9/26/2021	10.45	19.12
		9/14/2022	8.90	20.67
MW-17	NS	11/15/2016	6.80	NS
	NS	6/15/2017	5.52	NS
	24.92	8/16/2017	6.18	18.74
		10/20/2017	6.59	18.33
MW-18	NS	11/15/2016	6.21	NS
	NS	6/16/2017	6.12	NS
	25.20	8/16/2017	6.17	19.03
		10/20/2017	6.42	18.78
MW-19	NS	11/15/2016	4.75	NS
	NS	6/16/2017	3.81	NS
	31.46	8/16/2017	3.77	27.69
		10/20/2017	3.75	27.71
		9/15/2018	4.33	27.13
		10/1/2019	2.86	28.60
		9/9/2020	3.66	27.80
		7/2/2021	3.61	27.85
		9/14/2022	3.54	27.92
MW-20	NS	6/16/2017	2.97	NS
	35.14	8/16/2017	3.17	31.97
		10/20/2017	3.16	31.98
		9/15/2019	3.46	31.68
		10/1/2019	1.88	33.26
		9/9/2020	2.85	32.29
		6/30/2021	2.28	32.86
		9/13/2022	2.00	33.14
MW-21	NS	6/16/2017	4.38	NS
	40.97	8/16/2017	5.02	35.95
		10/20/2017	5.08	35.89
		9/15/2018	6.12	34.85
		10/1/2019	4.83	36.14
		9/9/2020	6.33	34.64
		6/28/2021	6.09	34.88
		9/10/2022	6.82	34.15

Table 1
Summary of Groundwater Elevation Data – November 2016 through September 2022
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Groundwater Elevation (feet)[1]
MW-22	NS	6/16/2017	3.82	NS
	37.86	8/16/2017	4.16	33.70
		10/20/2017	3.87	33.99
		9/15/2018	4.34	33.52
		10/1/2019	3.00	34.86
		9/10/2020	4.55	33.31
		7/2/2021	4.01	33.85
		9/13/2022	5.45	32.41
MW-23	NS	6/16/2017	3.97	NS
	30.89	8/16/2017	3.93	26.96
		10/20/2017	3.99	26.90
		9/15/2018	4.57	26.32
		10/1/2019	2.99	27.90
		9/9/2020	3.91	26.98
		7/2/2021	3.31	27.58
		9/26/2021	4.80	26.09
		9/12/2022	3.68	27.21
MW-24	37.35	9/14/2018	9.49	27.86
		10/1/2019	7.80	29.55
		9/9/2020	8.61	28.74
		7/2/2021	7.97	29.38
		9/26/2021	9.40	27.95
		9/14/2022	8.32	29.03
MW-25	39.07	9/14/2018	6.01	33.06
		10/1/2019	5.12	33.95
		9/9/2020	5.96	33.11
		6/30/2021	5.77	33.3
		9/15/2022	6.04	33.03
MW-26	33.07	9/14/2018	6.91	26.16
		10/1/2019	5.10	27.97
		9/9/2020	7.11	25.96
		7/1/2021	5.98	27.09
		9/26/2021	7.45	25.62
		9/15/2022	5.55	27.52
MW-27	NS	9/13/2020	3.44	NS
	NS	7/2/2021	2.28	NS
	NS	9/25/2021	3.74	NS
	NS	9/14/2022	2.61	NS
MW-29	NS	9/13/2020	8.21	NS
	NS	7/1/2021	5.76	NS
	NS	9/26/2021	8.17	NS
	NS	9/15/2022	5.86	NS

Table 1
Summary of Groundwater Elevation Data – November 2016 through September 2022
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Groundwater Elevation (feet)[1]
MW-30	NS	9/14/2020	8.16	NS
	NS	7/1/2021	4.50	NS
	NS	9/26/2021	7.81	NS
	NS	9/15/2022	4.52	NS

NOTES:
[1]Elevation in feet above mean sea level.
[2]Depth to water in feet below top of well casing.

NM = not measured, well not located
NS = not surveyed, groundwater elevation could not be determined

Table 2
Summary of Groundwater Geochemical Data – November 2016 through September 2022
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Monitoring Well	Sample Date	Temperature[1] (degrees Celsius)	pH[1]	ORP[1] (millivolts)	Specific Conductivity[1] (microSiemens per centimeter)	Dissolved Oxygen[1] (mg/l)	Total Nitrate/ Nitrite-N[2] (mg/l)	Sulfate[3] (mg/l)	Ferrous Iron[4] (Fe^{+2}) (mg/l)	Manganese[4] (Mn^{+2}) (mg/l)
B1MW	6/16/2017	6.50	5.92	-34.5	482.0	1.90	--	--	--	--
	10/17/2017	6.77	6.04	-21.5	327.0	0.56	--	--	--	--
	9/11/2018	9.04	6.34	19.5	377	0.79	--	--	--	--
	10/4/2019	9.74	5.89	132.4	407	0.59	0.0804 J	9.20	3.0	1.2
	9/11/2020	11.08	6.28	-42.5	884	0.61	--	--	--	--
	6/29/2021	9.19	6.22	44.2	321	0.23	--	--	--	--
	9/11/2022	10.20	6.22	90.7	525	0.03	--	--	--	--
B2MW	9/14/2018	10.68	5.89	63.9	354	0.60	--	--	--	--
	10/2/2019	11.20	5.64	107.5	466	0.71	--	--	--	--
	9/12/2020	11.36	5.89	-29.0	540	0.59	--	--	--	--
	6/29/2021	8.05	5.95	84.4	278	0.31	--	--	--	--
	9/11/2022	9.80	5.99	137.2	395	0.05	--	--	--	--
B3MW	10/17/2017	7.32	6.16	-19.2	553	1.12	--	--	--	--
	9/14/2018	11.29	6.25	21.0	450	0.74	--	--	--	--
	10/3/2019	11.52	6.17	108.8	593	1.86	--	--	--	--
	9/12/2020	12.00	5.98	-47.9	752	0.96	--	--	--	--
	6/29/2021	9.21	6.25	72.0	385	4.45	--	--	--	--
	9/11/2022	11.50	6.10	80.6	551	0.38	--	--	--	--
B4MW	6/16/2017	4.50	5.22	158.4	225.0	0.47	--	--	--	--
	9/14/2018	10.75	6.12	64.0	129.0	1.23	--	--	--	--
	10/4/2019	11.01	5.72	193.0	171	2.39	0.0824 J	22.4	--	--
	9/12/2020	11.99	6.59	103.2	746	2.53	--	--	--	--
TW-2	11/17/2016	5.50	2.34	55.6	104.9	4.13	--	--	--	--
	6/16/2017	9.90	6.69	125.6	123	41.6[5]	--	--	--	--
	10/18/2017	7.87	6.58	18.9	69	6.60	--	--	--	--
	9/14/2018	11.25	6.50	76.7	129	3.84	--	--	--	--
	10/2/2019	11.35	6.62	176.8	91	10.34	--	--	--	--
	9/11/2020	14.86	6.82	63.7	164	10.15	--	--	--	--
	6/29/2021	13.15	6.84	181.7	132	7.66	0.199 J	12.0	0.5	0.1
	9/25/2021	12.12	7.30	136.3	147	2.29	0.0944 J	27.4	--	--
	9/10/2022	12.29	6.61	108.5	178	5.36	--	--	--	--
MW-5R	11/17/2016	5.10	6.19	-13.6	243.0	0.10	--	--	--	--
	6/15/2017	2.80	5.81	108.7	135	12.0[5]	--	--	--	--
	10/18/2017	5.45	6.16	19.8	201	0.35	--	--	--	--
	9/11/2018	8.54	6.22	3.7	285	0.79	--	--	--	--
	10/2/2019	9.84	5.64	106.6	232	0.77	--	--	--	--
	9/9/2020	10.44	5.82	160.8	306	1.77	--	--	--	--
	6/30/2021	9.61	6.00	165.9	193	0.09	--	--	--	--
	9/12/2022	9.58	6.01	173.3	221	1.22	--	--	--	--

Table 2
Summary of Groundwater Geochemical Data – November 2016 through September 2022
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Monitoring Well	Sample Date	Temperature[1] (degrees Celsius)	pH[1]	ORP[1] (millivolts)	Specific Conductivity[1] (microSiemens per centimeter)	Dissolved Oxygen[1] (mg/l)	Total Nitrate/ Nitrite-N[2] (mg/l)	Sulfate[3] (mg/l)	Ferrous Iron[4] (Fe^{+2}) (mg/l)	Manganese[4] (Mn^{+2}) (mg/l)
MW-6	11/18/2016	4.60	6.02	3.2	179.9	0.15	--	--	--	--
	6/14/2017	6.50	5.90	25.2	212	2.80	--	--	--	--
	10/18/2017	6.98	5.89	20.0	162	0.59	--	--	--	--
	9/12/2018	11.06	6.10	4.9	176	0.37	--	--	--	--
	10/2/2019	10.09	5.75	92.5	207	0.57	--	--	--	--
	9/9/2020	11.48	6.33	134.7	144	1.23	--	--	--	--
	6/30/2021	8.81	6.11	110.9	226	0.11	--	--	--	--
	9/13/2022	11.44	6.30	66.2	291	0.07	--	--	--	--
MW-7	11/17/2016	5.50	3.05	-108.2	369.2	0.44	--	--	--	--
	6/14/2017	5.60	5.66	52.8	303	1.20	--	--	--	--
	10/18/2017	6.72	5.92	43.3	248	0.36	--	--	--	--
	9/12/2018	10.32	6.07	-4.8	301	0.40	--	--	--	--
	10/2/2019	9.09	5.82	68.9	358	0.78	--	--	--	--
	9/10/2020	8.47	6.04	-2.0	635	0.85	--	--	--	--
	6/30/2021	7.61	6.07	116.6	316	0.08				
MW-8	11/17/2016	2.60	6.59	-72.5	318.5	0.06	--	--	--	--
	6/16/2017	6.70	6.33	-73.1	324	1.50	--	--	--	--
	10/17/2017	7.60	6.43	-25.7	266	0.53	--	--	--	--
	9/12/2018	12.34	6.42	-64.0	310	0.41	--	--	--	--
	10/1/2019	12.17	6.17	3.1	465	0.17	--	--	--	--
	9/11/2020	13.57	6.58	-88.0	585	0.55	--	--	--	--
	6/29/2021	12.44	6.56	42.5	333	0.17	--	--	--	--
MW-9	11/17/2016	3.50	6.23	5.1	308.1	0.38	--	--	--	--
	6/16/2017	6.40	5.70	67.6	130	2.10	--	--	--	--
	10/17/2017	7.11	6.14	41.1	159	0.42	--	--	--	--
	9/10/2018	10.88	6.29	6.8	298	0.51	--	--	--	--
	10/1/2019	10.85	5.80	124.7	277	0.20	--	--	--	--
	9/11/2020	10.94	6.24	18.5	297	0.56	--	--	--	--
	6/29/2021	7.72	6.16	135.5	199	0.13	0.0666 J	2.08	1.5	1.4
	9/25/2021	8.84	7.02	37.3	266	0.40	0.104 J	0.122 J	3.5	1.4
	9/10/2022	10.72	6.11	53.4	200	0.17	--	--	--	--
MW-10	11/17/2016	5.00	6.37	-63.2	813	0.51	--	--	--	--
	6/15/2016	9.20	6.58	-80.7	716	1.80	--	--	--	--
	10/19/2017	6.49	6.59	-101.7	584	0.37	--	--	--	--
	9/13/2018	11.09	6.59	-89.6	814	0.46	--	--	--	--
	10/4/2019	10.61	6.15	114.7	831	0.43	0.323	<0.100	4.5	2.6
	9/13/2020	12.67	6.62	-66.1	912	0.48	0.396	0.0610 J	7.0	2.1
	7/2/2021	11.62	6.45	159.8	809	0.35	0.275	0.0950 J	--	--
	9/25/2021	10.26	7.61	42.2	880	1.05	0.424	0.0950 J	--	--
	9/14/2022	12.01	6.63	-73.8	1051	-0.02	--	--	5.5	1.5

Table 2
Summary of Groundwater Geochemical Data – November 2016 through September 2022
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Monitoring Well	Sample Date	Temperature[1] (degrees Celsius)	pH[1]	ORP[1] (millivolts)	Specific Conductivity[1] (microSiemens per centimeter)	Dissolved Oxygen[1] (mg/l)	Total Nitrate/ Nitrite-N[2] (mg/l)	Sulfate[3] (mg/l)	Ferrous Iron[4] (Fe^{+2}) (mg/l)	Manganese[4] (Mn^{+2}) (mg/l)
MW-11R	11/18/2016	5.70	6.24	-68.1	422.3	0.22	--	--	--	--
	6/15/2017	8.10	6.03	122.7	209	21.0[5]	--	--	--	--
	10/19/2017	6.66	6.37	-58.6	306	0.26	--	--	--	--
	9/13/2018	9.96	6.22	21.6	214	0.63	--	--	--	--
	10/4/2019	11.28	6.01	101.9	201	0.48	<0.100	8.27	2.5	0.9
	9/13/2020	11.32	6.12	34.6	325	1.12	<0.100	3.90	3.75	3.0
	7/2/2021	10.13	6.07	112.3	153	0.45	<0.100	7.86	--	--
	9/26/2021	9.02	7.00	42.0	258	0.60	0.0544 J	3.10	3.0	2.8
	9/14/2022	11.95	6.21	113.6	234	0.05	--	--	3.3	1.7
MW-12	11/17/2016	4.30	6.02	46.8	263.8	0.08	--	--	--	--
	6/14/2017	3.90	5.71	92.0	343	2.40	--	--	--	--
	10/18/2017	5.86	5.85	20.8	198	0.82	--	--	--	--
	9/11/2018	9.52	6.30	-23.5	299	0.73	--	--	--	--
	10/2/2019	9.16	6.05	32.7	672	0.89	--	--	--	--
	9/10/2020	9.67	6.36	-1.6	898	0.77	--	--	--	--
	6/30/2021	10.02	6.39	46.0	558	0.16	--	--	--	--
	9/25/2021	9.36	7.12	-6.2	524	0.52	--	--	--	--
	9/12/2022	9.12	6.33	6.8	580	0.02	--	--	--	--
MW-13	11/17/2016	4.60	3.55	28.3	325.4	0.08	--	--	--	--
	6/14/2017	4.60	5.48	78.6	553	1.10	--	--	--	--
	10/18/2017	5.69	6.17	-7.8	272	0.37	--	--	--	--
	9/11/2018	7.30	6.15	1.0	343	0.74	--	--	--	--
	10/2/2019	7.57	5.52	113.2	453	0.62	--	--	--	--
	9/10/2020	9.26	6.40	-34.1	1580	0.81	--	--	--	--
	6/30/2021	10.19	6.40	80.2	549	0.35	--	--	--	--
	9/12/2022	11.34	5.96	123.4	340	0.06	--	--	--	--
MW-14	11/18/2016	3.90	5.83	52.2	308.8	0.37	--	--	--	--
	6/15/2017	5.20	5.68	64.5	321	2.10	--	--	--	--
	10/20/2017	5.07	5.79	24.8	204	0.25	--	--	--	--
	9/13/2018	9.75	5.98	51.2	279	0.63	--	--	--	--
	10/3/2019	9.27	5.78	141.6	263	0.72	--	--	--	--
	9/11/2020	8.37	5.86	84.8	437	1.00	--	--	--	--
	7/2/2021	5.67	5.94	124.3	222	0.59	--	--	--	--
	9/13/2022	9.20	6.07	103.3	334	0.34	--	--	--	--
MW-15	11/18/2016	2.00	6.00	42.6	529	0.11	--	--	--	--
	6/15/2017	6.30	5.99	41.3	430	1.90	--	--	--	--
	10/18/2017	6.52	5.83	35.0	253	0.41	--	--	--	--
	9/13/2018	10.67	6.08	45.6	329	0.81	--	--	--	--
	10/3/2019	10.43	5.90	129.4	316	0.79	--	--	--	--
	9/10/2020	11.74	6.18	52.2	708	0.59	--	--	--	--
	7/1/2021	9.65	6.14	138.0	309	0.54	--	--	--	--
	9/13/2022	11.39	5.53	210.8	261	0.37	--	--	--	--

Table 2
Summary of Groundwater Geochemical Data – November 2016 through September 2022
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Monitoring Well	Sample Date	Temperature[1] (degrees Celsius)	pH[1]	ORP[1] (millivolts)	Specific Conductivity[1] (microSiemens per centimeter)	Dissolved Oxygen[1] (mg/l)	Total Nitrate/ Nitrite-N[2] (mg/l)	Sulfate[3] (mg/l)	Ferrous Iron[4] (Fe^{+2}) (mg/l)	Manganese[4] (Mn^{+2}) (mg/l)
MW-16	11/18/2016	5.60	2.88	-95.2	455.8	0.34	--	--	--	--
	6/15/2017	6.40	6.42	-40.9	474	1.60	--	--	--	--
	10/20/2017	6.25	6.59	-73.7	371	0.22	--	--	--	--
	9/12/2018	9.64	6.49	-72.3	464	0.30	--	--	--	--
	10/4/2019	10.63	6.22	112.1	501	0.21	0.208	<0.100	2.5	1.0
	9/13/2020	10.67	6.56	-68.3	548	0.46	0.166 J	0.0960 J	5.6	3.0
	7/2/2021	6.08	6.18	122.7	299	2.31	0.138 J	3.00	3.0	2.0
	7/2/2021[6]	--	--	--	--	--	0.141 J	2.97	--	--
	9/26/2021	7.87	7.18	54.1	465	5.53	0.184 J	0.436	--	--
	9/14/2022	8.71	5.99	190.4	251	0.23	0.339	7.53	1.75	1.7
MW-17	11/18/2016	3.70	6.11	-4.4	251.3	5.55	--	--	--	--
	6/15/2017	10.70	6.19	5.2	280	2.50	--	--	--	--
	10/20/2017	6.91	6.35	3.2	233	0.32	--	--	--	--
MW-18	11/18/2016	3.50	6.61	-54.0	417.3	0.09	--	--	--	--
	6/15/2017	10.20	6.47	6.5	507	2.30	--	--	--	--
	10/20/2017	6.28	6.39	-14.2	342	0.27	--	--	--	--
MW-19	11/17/2016	5.50	6.74	-123.9	634	0.45	--	--	--	--
	6/14/2017	7.50	6.40	-97.5	728	1.40	--	--	--	--
	10/19/2017	6.90	6.61	-89.8	426	0.85	--	--	--	--
	9/11/2018	10.86	6.76	-127.7	563	0.42	--	--	--	--
	10/3/2019	11.00	6.37	10.3	602	5.34	--	--	--	--
	9/10/2020	13.56	6.77	-96.6	1464	0.52	--	--	--	--
	7/2/2021	9.93	6.55	158.9	660	0.15	--	--	--	--
	9/14/2022	13.01	6.73	-91.5	991	0.00	--	--	--	--
MW-20	6/16/2017	2.40	6.09	111.7	344	1.42	--	--	--	--
	10/18/2017	5.90	6.06	27.0	218	0.58	--	--	--	--
	9/11/2018	10.54	6.22	-1.8	299	0.52	--	--	--	--
	10/4/2019	10.13	5.94	184.7	335	0.27	0.0662 J	<0.100	1.5	0.1
	9/9/2020	12.27	6.14	55.3	645	1.01	--	--	--	--
	6/30/2021	11.82	6.21	123.1	255	0.11	--	--	--	--
	9/13/2022	12.56	6.54	143.9	69	3.48	--	--	--	--
MW-21	6/16/2017	4.90	5.70	108.7	257	3.23	--	--	--	--
	10/17/2017	5.96	5.60	98.9	190	3.80	--	--	--	--
	9/12/2018	9.04	5.97	54.0	266	0.85	--	--	--	--
	10/1/2019	12.04	5.60	108.0	288	0.54	--	--	--	--
	9/11/2020	11.79	6.15	0.0	449	0.48	--	--	--	--
	6/28/2021	8.81	5.98	151.0	285	0.82	--	--	--	--
	9/10/2022	9.33	5.97	102.3	309	0.74	--	--	--	--
MW-22	6/16/2017	5.90	5.47	130.8	319	1.12	--	--	--	--
	10/20/2017	6.09	5.45	63.8	146	0.15	--	--	--	--
	9/13/2018	8.86	5.26	98.1	323	0.41	--	--	--	--
	10/3/2019	9.58	5.44	145.0	128	0.61	--	--	--	--
	9/10/2020	7.98	5.72	186.3	350	0.79	--	--	--	--
	7/2/2021	6.65	5.78	149.1	122	2.18	--	--	--	--
	9/13/2022	8.21	5.60	228.0	237	-0.02	--	--	--	--

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Farallon PN: 1010-004

Monitoring Well	Sample Date	Temperature[1] (degrees Celsius)	pH[1]	ORP[1] (millivolts)	Specific Conductivity[1] (microSiemens per centimeter)	Dissolved Oxygen[1] (mg/l)	Total Nitrate/ Nitrite-N[2] (mg/l)	Sulfate[3] (mg/l)	Ferrous Iron[4] (Fe^{+2}) (mg/l)	Manganese[4] (Mn^{+2}) (mg/l)
MW-23	6/16/2017	5.60	5.98	109.8	421	2.44	--	--	--	--
	10/19/2017	7.09	6.17	-32.1	372	0.28	--	--	--	--
	9/13/2018	10.20	6.26	-24.3	496	0.68	--	--	--	--
	10/4/2019	10.53	5.94	103.3	427	0.34	0.151 J	<0.100	2.5	1.5
	9/10/2020	12.83	6.31	-8.8	1091	0.65	--	--	--	--
	7/2/2021	9.33	6.12	134.4	439	0.14	--	--	--	--
	9/26/2021	10.33	7.04	50.6	423	1.11	--	--	--	--
	9/14/2022	12.39	6.35	-4.4	669	-0.05	--	--	--	--
MW-24	9/14/2018	10.54	6.21	30.4	362	3.98	--	--	--	--
	10/4/2019	10.41	6.20	122.5	65	0.28	0.331	21.4	4.0	2.2
	9/13/2020	10.98	6.56	-63.8	748	0.70	0.363	0.760	7.0	3.5
	7/2/2021	8.29	6.24	127.2	521	0.25	--	--	--	--
	9/26/2021	9.98	7.51	-3.4	578	0.53	--	--	--	--
	9/14/2022	12.62	6.57	-66.0	940	-0.46	--	--	--	--
MW-25	9/14/2018	8.60	5.90	102.0	197	0.70	--	--	--	--
	10/3/2019	8.71	5.80	142.7	242	0.81	--	--	--	--
	9/13/2020	9.31	6.14	79.4	244	0.74	--	--	--	--
	6/30/2021	8.29	6.08	149.5	247	0.21	--	--	--	--
	9/15/2022	9.56	5.82	240.9	215	1.43	--	--	--	--
MW-26	9/14/2018	12.80	6.23	24.4	226	2.91	--	--	--	--
	10/4/2019	11.64	6.01	155.6	241	0.25	0.0916 J	<0.100	2.6	0.6
	9/13/2020	12.57	6.35	-1.0	201	0.65	0.137 J	<0.100	7.0	0.5
	7/1/2021	11.22	6.34	137.8	228	0.26	0.0588 J	0.102 J	3.0	0.6
	9/26/2021	11.53	7.21	22.0	247	0.40	0.0902 J	0.130 J	4.5	0.6
	9/15/2022	12.59	6.37	19.7	291	0.05	<0.100	0.389	3.5	0.8
MW-27	9/13/2020	11.78	6.55	-10.8	686	0.85	0.0710 J	15.8	4.25	2.6
	7/2/2021	9.15	6.41	138.8	612	0.25	0.0586 J	14.1	--	--
	9/25/2021	10.48	7.42	-15.3	604	0.73	0.230	2.41	--	--
	9/14/2022	11.05	6.34	27.8	707	0.04	0.323	0.296	--	--
MW-29	9/13/2020	12.43	6.66	65.3	590	3.08	<0.100	35.9	1.75	1.3
	7/1/2021	11.79	6.51	68.3	453	0.09	0.133 J	2.99	--	--
	9/26/2021	10.71	7.37	-12.3	530	0.58	0.179 J	0.979	--	--
	9/15/2022	12.28	6.48	13.1	432	0.02	0.184 J	0.0750 J	--	--
MW-30	9/14/2020	13.74	6.20	55.1	4748	1.04	0.0642 J	6.41	1.25	7.0
	7/1/2021	12.22	6.59	19.4	372	0.04	0.0904 J	6.78	--	--
	9/26/2021	10.54	7.49	-44.0	429	0.04	0.175 J	2.91	--	--
	9/15/2022	11.32	6.51	10.9	536	0.00	0.262	0.0850 J	--	--

NOTES:

[1]Temperature, pH, ORP, specific conductivity, and dissolved oxygen measured using YSI ProDSS water-quality analyzer.

[2]Analyzed by Standard Method 4500.

[3]Analyzed by U.S. Environmental Protection Agency Method 300.0

[4]Measured using field colorimetric Hach tests

[5]Anomalously high dissolved oxygen values suggest probe was malfunctioning.

[6]Duplicate quality control/quality assurance sample

J = result is an estimate

mg/l = milligrams per liter

ORP = oxidation-reduction potential

Table 3
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Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Monitoring Well	Sample Date	Analytical Results (milligrams per liter)						
		DRO[1]	RRO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes (total)[4]
B1MW	6/8/2006	--	--	**23.3/23.0**	**1.19/1.20**	**5.91 / 5.93**	**0.593 / 0.583**	**3.35 / 3.36**
B1MW	7/15/2010	--	--	**6.48**	**0.342**	0.653	**0.202**	**1.57**
B1MW	6/21/2011	**5.5 / 6.1**	--	**23 J / 23 J**	**0.470 / 0.540**	**1.6 / 1.9**	**0.170 / 0.170**	**10.0 / 11.0**
B1MW	8/5/2011	**11.5**	--	**21.5**	**0.30**	0.93	**0.24**	**5.7**
B1MW	10/3/2011	**7.8 / 10.5**	--	**11.4 / 10.6**	**0.51 / 0.53**	0.57 / 0.46	**0.17 / 0.15**	**2.6 / 2.4**
B1MW	6/5/2012	**3.8 / 3.3**	--	**16.3 / 16.4**	**0.52 / 0.45**	**2.0 / 1.8**	**0.51 / 0.47**	**4.5 / 4.3**
B1MW	9/16/2012	**3.0 / 4.1**	--	**8.3 J / 9.3**	**0.36 / 0.34**	0.68 / 0.67	**0.18 / 0.20**	**1.8 / 1.7**
B1MW	6/5/2013	**7.8 / 7.7**	--	**33.3 / 31.8**	**0.32 / 0.37**	**1.7 / 2.0**	**0.58 / 0.59**	**10.2 / 9.6**
B1MW	9/11/2013	**2.5**	--	**14.3 J**	**0.22**	0.95	**0.21**	**2.9**
B1MW	6/19/2014	**3.5**	--	**17.0**	**0.17**	0.51	**0.18**	**2.5**
B1MW	9/29/2014	**2.8**	--	**6.3**	**0.14**	0.33	**0.12**	**1.1**
B1MW	6/2/2015	**2.3**	--	**8.9 J**	**0.17**	0.35	**0.15**	**1.8**
B1MW	5/11/2016	**2.35 J**	--	**8.04**	**0.282**	**1.79**	**0.414**	**3.57**
B1MW	6/16/2017	**2.27**	0.738	**12.1**	**0.187**	0.521	**0.298**	**4.380**
B1MW	10/17/2017	**2.07**	0.527	**7.14**	**0.251**	0.231	**0.140**	**2.90**
B1MW	9/11/2018	**1.67**	<0.500	**2.55**	**0.137**	0.143	**0.096**	**0.980**
DUP1-091118[5]	9/11/2018	**1.73**	0.571	**2.48**	**0.140**	0.143	**0.0949**	**0.915**
B1MW	10/4/2019	**2.15**	0.215 J	**6.84**	**0.146**	0.397	**0.144**	**1.960**
B1MW	9/11/2020	**8.31**	**1.80**	**7.46**	**0.158**	0.733	**0.138**	**1.670**
B1MW	6/29/2021	**4.21**	**1.34**	**11.8**	**0.820 J**	0.782 J	**0.263 J**	**2.83 J**
B1MW	9/11/2022	**3.85**	**1.83**	**13.7**	**1.62**	1.03	**0.419**	**3.11**
B1MW-D[5]	9/11/2022	**4.18**	**2.14**	**14.1**	**1.50**	**1.11**	**0.448**	**3.32**
ADEC Table C Groundwater Cleanup Levels[6]		**1.5**	**1.1**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**

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Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Monitoring Well	Sample Date	Analytical Results (milligrams per liter)						
		DRO[1]	RRO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes (total)[4]
B2MW	6/8/2006	--	--	0.205	**0.0275**	0.0113	0.00231	0.0145
B2MW	7/15/2010	--	--	<0.10	0.00291	<0.002	<0.002	<0.002
B2MW	6/21/2011	0.89	--	0.044 J	0.0031	<0.0003	<0.00012	<0.00069
B2MW	8/5/2011	0.61	--	0.066	**0.0093**	0.00028 J	<0.0002	0.0011 J
B2MW	10/3/2011	0.52	--	<0.069	**0.012**	<0.001	<0.001 U	<0.003
B2MW	6/5/2012	0.5	--	0.14	**0.012**	0.002	<0.0001	0.0017 J
B2MW	9/16/2012	<0.38	--	0.19	**0.052**	0.0011	<0.0001	0.0038
B2MW	6/5/2013	0.32 J	--	0.27 J	**0.044**	0.0055	<0.00024	0.0075
B2MW	9/11/2013	0.26 J	--	0.24	**0.025**	0.015	<0.00024	0.0047
B2MW	6/19/2014	0.084 J	--	0.080 J	**0.0091**	0.00075J	<0.00016	<0.0004
B2MW	9/29/2014	0.28 J	--	0.15	**0.015**	0.00039 J	<0.00016	0.0037
B2MW	9/14/2018	<0.588	<0.490	0.343	**0.101**	<0.001	<0.001	0.00740
B2MW	10/2/2019	<0.566	0.307 J	1.36	**0.615** J+	0.00945 J+	0.00562 J+	0.108 J+
B2MW	9/12/2020	0.395 J	0.716	1.11	**0.336**	0.00138	0.00163	0.108
B2MW	6/29/2021	0.895	0.731	1.23	**0.282 J**	<0.0050 J	<0.0050 J	0.103 J
B2MW	9/11/2022	1.04	**1.40**	0.566	**0.141**	0.00166	<0.0005	0.0805
ADEC Table C Groundwater Cleanup Levels[6]		**1.5**	**1.1**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**

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Dillingham, Alaska
Farallon PN: 1010-004

Monitoring Well	Sample Date	Analytical Results (milligrams per liter)						
		DRO[1]	RRO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes (total)[4]
B3MW	6/8/2006	--	--	1.79	**0.00856**	0.0120	**0.0805**	**0.239**
B3MW	6/21/2011	0.61	--	0.79	0.0028	0.0012	0.014	0.047
B3MW	8/5/2011	0.85	--	1.4	0.0026	0.0017	**0.016**	0.058
B3MW	10/3/2011	0.55	--	0.92	0.0016	0.0015	**0.016**	0.042
B3MW	6/5/2012	0.54	--	1.2 J	0.0030	0.0026	**0.027**	0.085
B3MW	9/16/2012	0.66	--	**3.1 J**	0.0036	0.0034	**0.071**	**0.21**
B3MW	6/5/2013	0.6	--	1.1 J	0.0034	0.0024	**0.027**	0.074
B3MW	9/11/2013	0.49	--	0.97	0.0048	0.0026	**0.023**	0.058
B3MW	9/29/2014	0.83	--	1.8	**0.0080**	0.0053	**0.059**	0.16
B3MW	6/2/2015	--	--	--	**0.0053**	0.0016	**0.035**	0.063
B3MW	10/13/2015	--	--	--	**0.0069**	0.0038	**0.045**	0.11
B3MW	5/11/2016	1.33 J	--	0.534	**0.00542**	0.00068 J	0.00889	0.02135
B3MW	10/17/2017	<0.577	<0.481	0.651	**0.00629**	0.00234	**0.0232**	0.0732
B3MW	9/14/2018	<0.577	<0.481	1.04	**0.0112**	0.00436	**0.0358**	0.116
B3MW	10/3/2019	0.405 J	<0.240	0.954	**0.0111**	0.00245	**0.0199**	0.0472
B3MW	9/12/2020	0.569 J	0.884	0.555	**0.0194**	0.00245	0.00386	0.0217
B3MW	6/29/2021	0.986	0.978	0.716	**0.00915 J**	0.00192 J	0.0075 J / 0.013 J	0.0288 J
B3MW	9/11/2022	0.863	**1.42**	0.526	**0.0133**	0.00245	0.00254	0.0164
ADEC Table C Groundwater Cleanup Levels[6]		**1.5**	**1.1**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**

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		DRO[1]	RRO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes (total)[4]
B4MW	6/8/2006	--	--	<0.10	0.0161	0.00385	<0.002	0.00433
B4MW	7/15/2010	--	--	<0.10	0.00146	<0.002	<0.002	<0.002
B4MW	6/21/2011	1.1	--	0.019 J	0.00073	<0.00014 J	<0.0005	<0.00035
B4MW	8/5/2011	1.3	--	<0.020 J	0.00072 J	0.00013 J	0.00018 J	0.0013 J
B4MW	10/3/2011	0.7	--	<0.050	0.00095 J	<0.001	<0.001	<0.003
B4MW	6/5/2012	0.18 J	--	<0.025	0.00053 J	<0.0001	<0.0001	<0.0003
B4MW	9/16/2012	**4**	--	<0.025	0.00040 J	<0.0001	0.00012 J	<0.003
B4MW	6/5/2013	**1.8**	--	<0.050	0.00073 J	<0.00023	<0.00024	<0.00072
B4MW	9/11/2013	0.51	--	<0.050	0.0010	<0.00023	<0.00024	<0.00072
B4MW	6/16/2017	<0.600	--	<0.10	<0.0005	<0.001	<0.001	<0.003
B4MW	9/14/2018	<0.588	<0.490	<0.100	<0.0005	<0.001	<0.001	<0.003
B4MW	10/4/2019	0.326 J	0.204 J	<0.0500	0.00173	<0.0005	0.000420 J	0.00202 J
B4MW	9/12/2020	<0.300	0.545	<0.0500	0.00089	<0.0005	<0.0005	<0.0015
TW-1	7/1/2008	--	--	0.585	0.00437	0.00203	0.00468	0.0467
TW-1	7/16/2010	--	--	0.456	**0.0105**	0.164	<0.0020	0.00502
TW-1	6/21/2011	**3.6**	--	1.5	**0.027**	0.820	0.0011	0.0064
TW-1	8/5/2011	0.62	--	0.071	**0.0051**	0.0024	<0.00007	<0.00013 J
TW-1	10/3/2011	0.78	--	<0.050	0.0028	<0.001	0.0014	<0.003
TW-1	9/15/2012	1.3	--	0.18	0.00062 J	0.074	0.00013 J	<0.003
ADEC Table C Groundwater Cleanup Levels[6]		**1.5**	**1.1**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**

Table 3
Summary of Analytical Results for Groundwater and Seep Water – DRO, RRO, GRO, and BTEX
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Monitoring Well	Sample Date	Analytical Results (milligrams per liter)						
		DRO[1]	RRO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes (total)[4]
TW-2	7/1/2008	--	--	**4.4**	**1.0**	0.116	**0.157**	**1.10**
TW-2	7/16/2010	--	--	<0.10	0.00459	<0.0020	<0.0020	<0.0020
TW-2	6/21/2011	0.93	--	**79**	**5.1**	**14**	**0.470**	**4.70**
TW-2	8/5/2011	0.89 / 0.89	--	1.7 / 2.4	**0.025 / 0.031**	0.080 / 0.090	**0.017 / 0.021**	**0.58 / 0.65**
TW-2	10/3/2011	0.97	--	1.8	**0.041**	0.0053	0.012	**0.56**
TW-2	6/5/2012	0.16 J	--	0.068	**0.013**	0.00044 J	0.00041 J	0.0032
TW-2	9/16/2012	<0.38	--	<0.025	<0.0001	<0.0001	<0.0001	<0.003
TW-2	6/5/2013	0.12 J	--	<0.050	0.0014	<0.00023	<0.00024	<0.00072
TW-2	9/11/2013	<0.22	--	<0.050	0.00034 J	<0.00023	<0.00024	<0.00072
TW-2	6/19/2014	0.066 J	--	<0.050	<0.00015	<0.00011	<0.00016	<0.0004
TW-2	9/29/2014	0.13 J	--	<0.050	0.00031 J	<0.00011	<0.00016	<0.0004
TW-2	5/11/2016	<2.50	--	<0.10	<0.0004	<0.001	<0.001	<0.003
TW-2	11/17/2016	<0.25	<0.40	<0.10	<0.001	<0.001	<0.001	<0.001
TW-2	6/16/2017	<0.632	<0.526	<0.10	<0.0005	<0.001	<0.001	<0.003
TW-2	10/18/2017	<0.577	<0.481	<0.100	<0.0004	<0.001	<0.001	<0.003
TW-2	9/14/2018	<0.592	<0.481	<0.100	<0.0005	<0.001	<0.001	<0.003
TW-2	10/2/2019	<0.577	<0.240	<0.0500	0.000260 J	<0.0005	<0.0005	<0.0015
TW-2	9/11/2020	<0.326	<0.272	<0.0500	0.000260 J	<0.0005	<0.0005	<0.0015
TW-2	6/29/2021	<0.294	<0.245	0.0325 J	<0.000250	<0.0005	<0.0005	<0.0015
TW-2	9/10/2022	0.480 J	<0.701	<0.0500	<0.000250	<0.0005	<0.0005	<0.0015
ADEC Table C Groundwater Cleanup Levels[6]		**1.5**	**1.1**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**

Table 3
Summary of Analytical Results for Groundwater and Seep Water – DRO, RRO, GRO, and BTEX
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Monitoring Well	Sample Date	Analytical Results (milligrams per liter)						
		DRO[1]	RRO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes (total)[4]
TW-3	7/1/2008	--	--	0.251/6.04	**0.158/1.23**	<0.00200/0.151	<0.00200/0.203	<0.00200/**1.48**
TW-3	7/16/2010	--	--	<0.10	**0.00927**	<0.002	<0.002	<0.002
TW-3	6/21/2011	0.62	--	0.043 J	**0.0096**	<0.00016 J	<0.0005	<0.00032
TW-3	8/5/2011	0.35 J	--	0.24	**0.11**	0.00036 J	0.00034 J	0.0017 J
TW-3	10/3/2011	0.51	--	0.23	**0.11**	<0.001	<0.001	<0.003
TW-3	6/5/2012	0.28 J	--	0.026 J	0.0046	0.00017 J	0.00020 J	0.00064 J
MW-5	6/22/2011	**8.4**	--	1.5	**0.083**	0.0052	**0.022**	0.100
MW-5	8/5/2011	**7.6**	--	1.8	**0.027**	0.0014	**0.020**	0.067
MW-5	10/3/2011	**5.6**	--	1.7	**0.039**	0.00092 J	0.013	0.040
MW-5	6/5/2012	**5.2**	--	1.0	**0.12**	0.00095 J	0.0049	0.017
MW-5R	09/15/2012	**1.9**	--	1.4	**0.11**	0.0020	**0.031**	0.13
MW-5R	9/10/2013	**2.6**	--	1.1	**0.17**	0.0019	**0.031**	0.070
MW-5R	9/10/2013	**2.5**	--	1.2	**0.17**	0.0020	**0.031**	0.070
MW-5R	6/19/2014	**1.7**	--	1.1	**0.17**	0.0026	**0.026**	0.080
MW-5R	9/29/2014	1.2	--	**2.3**	**0.23**	0.0078	**0.054**	0.13
MW-5R	6/2/2015	1.2 J	--	**3.2**	**0.15**	0.0028	**0.034**	0.051
MW-5R	10/13/2015	**1.6**	--	**1.3**	**0.12**	0.0044	**0.046**	0.10
MW-5R	5/11/2016	**1.63 J**	--	1.06	**0.122**	0.00406	**0.0607**	0.11
MW-5R	11/17/2016	1.5	<0.39	1.00	**0.110**	0.0031	**0.040**	0.082
DUP1-111716[5]	11/17/2016	**1.7**	<0.38	0.970	**0.110**	0.0031	**0.038**	0.0767
MW-5R	6/15/2017	1.43	<0.556	0.376	**0.0779**	0.00104	0.00679	0.01190
MW-5R	10/18/2017	1.03	<0.481	0.706	**0.0745**	0.00179	**0.0299**	0.0462
MW-5R	9/11/2018	**1.73**	<0.490	0.840	**0.0882**	0.00247	**0.0342**	0.0552
MW-5R	10/2/2019	0.741	0.188 J	0.325	**0.0789**	0.00121	0.00689	0.0103
MW-5R	9/9/2020	**2.46**	**1.56**	0.0792 J	**0.0179**	<0.000500	0.000690 J	0.00144 J
MW-5R	6/30/2021	**2.99**	1.07	0.270	**0.0629**	0.00210	0.00369	0.00832
MW-5R	9/12/2022	**2.64**	**1.86**	0.177	**0.0313**	0.00092 J	0.00316	0.00489
ADEC Table C Groundwater Cleanup Levels[6]		**1.5**	**1.1**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**

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Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Monitoring Well	Sample Date	Analytical Results (milligrams per liter)						
		DRO[1]	RRO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes (total)[4]
MW-6	6/22/2011	0.7	--	0.39	**0.150**	0.00040J	0.00016 J	0.0014
MW-6	8/5/2011	0.79	--	0.41	**0.14**	0.00036 J	0.00022 J	0.0016 J
MW-6	10/3/2011	0.59	--	0.47	**0.18**	<0.001	<0.001	<0.003
MW-6	6/5/2012	0.59	--	0.17	**0.083**	0.00047 J	<0.0001	0.00042 J
MW-6	9/15/2012	0.98	--	0.087	**0.025**	<0.0001	<0.0001	<0.003
MW-6	6/5/2013	0.39 J	--	0.34	**0.14**	0.00035 J	<0.00024	0.0013 J
MW-6	9/10/2013	1	--	0.079 J	**0.017**	<0.00023	<0.00024	<0.00072
MW-6	6/19/2014	0.49	--	0.12	**0.036**	0.00048 J	<0.00016	<0.0004
MW-6	9/29/2014	0.84	--	0.12	**0.022**	<0.00011	<0.00016	<0.0004
MW-6	6/2/2015	--	--	--	**0.021**	<0.00013	<0.00023	<0.0006
MW-6	10/13/2015	--	--	--	**0.0084**	<0.00013	<0.00023	<0.0006
MW-6	5/11/2016	0.745 J	--	0.0516 J	**0.00911**	<0.001	<0.001	<0.003
MW-6	11/18/2016	0.97	0.63	<0.10	**0.0096**	<0.001	<0.001	<0.002
DUP2-111816[5]	11/18/2016	1.0	0.80	<0.10	**0.0095**	<0.001	<0.001	<0.002
MW-6	6/14/2017	<0.632	<0.526	<0.10	**0.0080**	<0.001	<0.001	<0.003
DUP1-061417[5]	6/14/2017	<0.667	<0.556	<0.10	**0.00796**	<0.001	<0.001	<0.003
MW-6	10/18/2017	0.974	0.658	<0.10	**0.00575**	<0.001	<0.001	<0.003
MW-6	9/12/2018	0.589	<0.481	<0.10	**0.00616**	<0.001	<0.001	<0.003
MW-6	10/2/2019	0.876	0.551	0.0518 J	**0.00827**	<0.0005	<0.0005	<0.0015
MW-6	9/9/2020	<0.326	<0.272	<0.0500	0.0008	<0.0005	<0.0005	<0.0015
MW-6	6/30/2021	1.35	**2.43**	0.0725 J	**0.0147**	<0.0005	<0.0005	<0.0015
MW-6	9/13/2022	1.29	**1.78 J+**	0.0700 J	**0.00816**	<0.0005	<0.0005	<0.0015
ADEC Table C Groundwater Cleanup Levels[6]		**1.5**	**1.1**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**

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Summary of Analytical Results for Groundwater and Seep Water – DRO, RRO, GRO, and BTEX
Delta Western Terminal
Dillingham, Alaska
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Monitoring Well	Sample Date	Analytical Results (milligrams per liter)						
		DRO[1]	RRO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes (total)[4]
MW-7	6/22/2011	**6.4**	--	**2.6 J**	**0.130**	0.011	**0.050**	**0.340**
MW-7	8/5/2011	-- / 11.1	--	1.5 / 1.6	**0.19 / 0.20**	0.0017 / 0.0023	0.0056 J / 0.011 J	0.037 J / 0.068 J
MW-7	10/3/2011	**11.5 / 8.0**	--	1.2 / 1.3	**0.14 / 0.18**	0.0025 / 0.0032	0.012 J / **0.020 J**	0.070 J / 0.12 J
MW-7	6/5/2012	**1.7**	--	**2.4**	**0.24**	0.0057	**0.019**	0.14
MW-7	9/15/2012	**7.7 / 9.4**	--	1.9 / 2.2	**0.16 / 0.15**	0.0070 / 0.0066	**0.038 J / 0.036**	**0.20 J** / 0.18
MW-7	6/5/2013	**4.2**	--	2.1	**0.17**	0.0086	**0.034**	**0.21**
MW-7	9/10/2013	**3.8**	--	2.0	**0.23**	0.0067	0.011	0.075
MW-7	9/10/2013	**3.3**	--	1.9	**0.20**	0.0078	0.0085	0.060
MW-7	6/19/2014	**1.9**	--	1.7	**0.20**	0.0066	0.011	0.068
MW-7	6/19/2014	**1.9**	--	1.8	**0.19**	0.0068	0.012	0.072
MW-7	9/29/2014	**3.4 J / 7.1 J**	--	1.4 J / 1.5 J	**0.19 / 0.15**	0.0055 / 0.0058	0.0075 J / 0.013 J	0.042 J / 0.072 J
MW-7	6/2/2015	**1.7**	--	1.2 J	**0.15**	0.0051	0.010	0.061
MW-7	10/13/2015	0.55	--	1.3	**0.14**	0.0044	0.0057	0.029
MW-7	5/11/2016	**7.35**	--	0.840 J	**0.104**	0.00403	0.0122	0.0769
MW-7	11/17/2016	0.71	<0.38	0.620	**0.120**	0.0035	0.0032	0.0175
MW-7	6/14/2017	<0.645	<0.538	0.875	**0.160**	0.00770	0.00252	0.0291
MW-7	10/18/2017	0.917	<0.481	0.596	**0.0813**	0.00327	0.00498	0.0328
MW-7	9/12/2018	0.998	<0.490	0.785	**0.112**	0.00340	0.00590	0.0424
MW-7	10/2/2019	0.623 J	<0.250	0.612	**0.113**	0.00393	0.00344	0.0340
MW-7-100219-01[5]	10/2/2019	**1.74 J**	0.276 J	0.616	**0.111**	0.00387	0.00334	0.0328
MW-7	9/10/2020	1.05	0.698	0.777	**0.0956**	0.00397	0.00473	0.0436
MW-7	6/30/2021	0.968	0.357 J	0.810	**0.107**	0.00537	0.00372	0.0449
ADEC Table C Groundwater Cleanup Levels[6]		**1.5**	**1.1**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**

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Monitoring Well	Sample Date	Analytical Results (milligrams per liter)						
		DRO[1]	RRO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes (total)[4]
MW-8	6/22/2011	**5.2**	--	**2.2 J**	**0.0074 J**	0.0027 J	**0.130 J**	**0.47 J**
MW-8	8/5/2011	**7.3**	--	**3.4 J**	**0.0071**	0.0027	**0.19**	**0.53**
MW-8	10/3/2011	**11.7**	--	**3.3 J**	**0.0070**	0.0025	0.15	**0.51**
MW-8	6/5/2012	**4.7**	--	1.3	0.0025	0.00029 J	**0.044**	**0.11**
MW-8	9/16/2012	**5.2**	--	**3.6 J**	**0.0064**	0.0020	**0.16**	**0.50**
MW-8	6/5/2013	**4.8**	--	**2.5**	**0.0064**	0.0025	**0.17**	**0.60**
MW-8	9/10/2013	**4.1**	--	**2.7**	**0.0072**	0.0029	**0.15**	**0.56**
MW-8	6/19/2014	**5**	--	**2.4**	**0.0063**	0.0026	**0.14**	**0.52**
MW-8	6/19/2014	**4**	--	**2.3**	**0.0065**	0.0028	**0.15**	**0.53**
MW-8	6/2/2015	**5**	--	**2.5 J**	**0.0061**	0.0016	**0.13**	**0.49**
MW-8	10/13/2015	**3.7**	--	**2.3**	**0.0050**	0.0020	**0.13**	**0.50**
MW-8	5/11/2016	**5.58**	--	1.96 J	**0.00578**	0.00195	**0.113**	**0.4566**
MW-8	11/17/2016	**3.0**	<0.39	1.80	0.0045	0.0018	**0.110**	**0.411**
MW-8	6/16/2017	**2.44**	<0.535	**2.34**	**0.00798**	0.00214	**0.149**	**0.536**
MW-8	10/17/2017	**3.12**	<0.500	1.78	**0.00517**	0.00145	**0.102**	**0.397**
MW-8-101717-A[5]	10/17/2017	**2.57**	<0.500	1.77	**0.00501**	0.00135	**0.108**	**0.448**
MW-8	9/12/2018	**2.56**	<0.490	1.93	**0.00640**	0.00134	**0.131**	**0.502**
MW-8	10/1/2019	**3.38**	0.444 J	1.97 J+	**0.00808**	0.00121	**0.110**	**0.417**
MW-8	9/11/2020	**5.51**	0.764	1.61	**0.00799**	0.00111	**0.121**	**0.453**
MW-8	6/29/2021	**5.11**	0.478 J	2.06 J+	**0.00723**	0.00060 J	**0.108**	**0.380**
ADEC Table C Groundwater Cleanup Levels[6]		**1.5**	**1.1**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**

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Monitoring Well	Sample Date	Analytical Results (milligrams per liter)						
		DRO[1]	RRO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes (total)[4]
MW-9	6/5/2013	0.24 J	--	<0.050	<0.00024	<0.00023	<0.00024	<0.00072
MW-9	9/10/2013	<0.23	--	<0.050	<0.00024	<0.00023	<0.00024	<0.00072
MW-9	6/19/2014	0.077 J	--	<0.050	0.00021 J	<0.00011	<0.00016	<0.0004
MW-9	9/29/2014	0.17 J	--	<0.050	0.00025 J	<0.00011	<0.00016	<0.0004
MW-9	5/11/2016	**<2.49**	--	0.0392 J	<0.0004	<0.001	<0.001	<0.003
MW-9	11/17/2016	<0.23	<0.38	<0.10	<0.001	<0.001	<0.001	<0.001
MW-9	6/16/2017	<0.628	<0.524	<0.10	<0.0005	<0.001	<0.001	<0.003
MW-9	10/17/2017	<0.610	<0.508	<0.10	<0.0004	<0.001	<0.001	<0.003
MW-9	9/10/2018	<0.588	<0.490	<0.100	<0.0005	<0.001	<0.001	<0.003
MW-9	10/1/2019	<0.577	0.228 J	<0.0500	0.000240 J	<0.0005	<00005	<0.0015
MW-9	9/11/2020	< 0.329	0.280 J	<0.0500	0.000380 J	<0.0005	<0.0005	<0.0015
MW-9	6/29/2021	<0.588	0.190 J	<0.0500	0.000200 J	<0.0005	<0.0005	<0.0015
MW-9	9/10/2022	0.417 J	<0.814	<0.0500	0.000240 J	<0.0005	<0.0005	<0.0015
MW-10	9/15/2012	**8.5**	--	0.72	**0.078**	0.0017	**0.054**	0.079
MW-10	6/5/2013	**5.8**	--	0.60 J	**0.11**	0.0012	0.013	0.070
MW-10	9/10/2013	**9.3**	--	0.62	**0.060**	<0.0016	**0.043**	0.076
MW-10	6/19/2014	**7**	--	0.72	**0.074**	0.0019	**0.063**	0.10
MW-10	9/29/2014	**9.2**	--	0.72	**0.065**	0.0018	**0.054**	0.076
MW-10	6/2/2015	**7.2**	--	0.95 J	**0.099**	0.0020	**0.070**	0.15
MW-10	10/13/2015	**8.9**	--	0.84	**0.085**	0.0018	**0.073**	0.10
MW-10	5/11/2016	**5.59**	--	0.596	**0.0743**	0.00137	**0.0549**	0.1109
MW-10	11/17/2016	**8.1**	**1.2**	0.51	**0.081**	0.001	**0.059**	0.0563
MW-10	6/15/2017	**4.74**	0.871	0.655	**0.104**	0.00255	**0.0636**	0.0842
MW-10	10/19/2017	**7.15**	**1.51**	0.527	**0.0985**	0.00106	**0.0668**	0.113
MW-10	9/13/2018	**6.02**	0.730	0.725	**0.0915**	0.00105	**0.0664**	0.103
MW-10	10/4/2019	**4.94**	0.925	0.770	**0.103**	0.00157	**0.0678**	0.0956
MW-10	9/13/2020	**15.6**	**4.29**	0.666	**0.0973**	0.00160	**0.0730**	0.109
MW-10	7/2/2021	**7.64**	**2.00**	0.276	**0.0590**	0.00068 J	**0.0168**	0.0212
MW-10	9/25/2021	**9.44**	**1.70**	0.265	**0.0801 J+**	0.00074 J+	0.00953 J+	0.00993 J+
MW-10	9/14/2022	**4.72**	**2.75**	0.297	**0.0488**	0.000820 J	**0.0261**	0.0337
ADEC Table C Groundwater Cleanup Levels[6]		**1.5**	**1.1**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**

Table 3
Summary of Analytical Results for Groundwater and Seep Water – DRO, RRO, GRO, and BTEX
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Monitoring Well	Sample Date	Analytical Results (milligrams per liter)						
		DRO[1]	RRO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes (total)[4]
MW-11	9/29/2014	**7.3**	--	**17.0 J**	**2.8 J**	0.0042 J	**0.061**	0.26
MW-11	6/2/2015	**4.3 /4.0**	--	**7.1 J / 8.7 J**	**1.9 /2.3**	<0.0034 / 0.00032 J	**0.038 / 0.040**	0.17 / 0.15
MW-11	10/13/2015	**4.5 / 5.1**	--	**12.5 / 11.2**	**2.7 / 2.6**	<0.0034 / <0.0027	**0.056 / 0.047**	**0.27 / 0.21**
MW-11R	5/11/2016	**4.23**	--	**5.09**	**2.4**	0.00154	**0.0407**	0.1194
MW-11R	11/18/2016	**2.7**	0.62	**3.0**	**1.5**	<0.001	0.0086	0.015
MW-11R	6/15/2017	0.714	<0.543	0.185	**0.104**	<0.001	<0.001	<0.003
DUP2-061517[5]	6/15/2017	<0.638	<0.532	0.220	**0.131**	<0.001	<0.001	<0.003
MW-11R	10/19/2017	<0.566	<0.472	0.698	**0.269**	<0.001	0.00152	<0.003
MW11R-101917-A[5]	10/19/2017	0.648	0.525	0.665	**0.252**	<0.001	0.00143	<0.003
MW-11R	9/13/2018	<0.577	<0.481	0.221	**0.065**	<0.001	<0.001	<0.003
MW-11R	10/4/2019	0.315 J	<0.240	0.240	**0.0305**	<0.0005	0.000570 J	0.00198 J
MW-11R	9/13/2020	0.433 J	0.734	0.259	**0.0541**	<0.0005	<0.0005	0.00095 J
MW-11R[5]	9/13/2020	0.372 J	0.554	0.288	**0.0598**	<0.0005	<0.0005	<0.0015
MW-11R	7/2/2021	0.361 J	0.153 J	<0.0500	0.0023	<0.0005	<0.0005	<0.0015
MW-11R	9/26/2021	<0.306 J	<0.255 J	0.115	**0.0406**	<0.0005	<0.0005	<0.0015
MW-11R	9/14/2022	0.824	0.726 J+	0.302	**0.0551**	<0.0005	0.00108	0.00293 J
MW-11R-D[5]	9/14/2022	0.754	0.605 J+	0.274	**0.0535**	<0.0005	0.000780 J	0.00228 J
ADEC Table C Groundwater Cleanup Levels[6]		**1.5**	**1.1**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**

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Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Monitoring Well	Sample Date	Analytical Results (milligrams per liter)						
		DRO[1]	RRO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes (total)[4]
MW-12	9/29/2014	0.54	--	0.39	**0.046**	0.00057 J	0.010	0.020
MW-12	6/2/2015	0.36 J	--	0.078 J	**0.012**	0.00023 J	0.0016	0.003
MW-12	10/13/2015	0.23 J	--	<0.050	**0.0050**	<0.00013	<0.00023	<0.0006
MW-12	5/11/2016	0.821 J	--	0.610 J	**0.0700**	0.000870 J	0.00445	0.0944
MW-12	11/17/2016	<0.24	<0.40	<0.10	**0.0053**	<0.001	<0.001	<0.002
MW-12	6/14/2017	1.06	<0.526	0.428	**0.0771**	0.00264	**0.0520**	0.1442
MW-12	10/18/2017	<0.566	<0.472	<0.10	0.00149	<0.001	<0.001	0.00452
MW-12	9/11/2018	1.35	0.747	<0.10	**0.0273**	<0.001	<0.001	0.00371
MW-12	10/2/2019	**1.81**	0.679	0.319	**0.0819**	0.00270	0.00524	0.0334
MW-12	9/10/2020	**2.40**	**1.79**	0.398	**0.0550**	0.00235	0.00403	0.0871
MW-12	6/30/2021	**4.07**	**1.67**	1.07	**0.0862**	0.00701	0.0119	**0.298**
MW-12D[5]	6/30/2021	**4.24**	**1.64**	1.09	**0.0858**	0.00700	0.0121	**0.303**
MW-12	9/25/2021	**2.39 J**	0.922	**2.52**	**0.167**	0.0131	**0.0201**	**0.941**
MW-12	9/12/2022	**4.12**	**2.36**	0.915	**0.105**	0.0055	0.0124	**0.213**
MW-13	9/29/2014	0.37 J / 0.33 J	--	0.088 J / 0.20 J	**0.0063 / 0.0053**	<0.00055 / <0.00055	0.00087 J / <0.00082	<0.002 / <0.002
MW-13	6/2/2015	0.28 J	--	<0.050 J	0.0029	0.00083 J	<0.00023	<0.0006
MW-13	10/13/2015	0.31 J	--	<0.050	0.0023	<0.00036 J	<0.00023	<0.0006
MW-13	11/17/2016	<0.25	<0.40	<0.10	0.0033	<0.001	<0.001	<0.002
MW-13	6/14/2017	<0.632	<0.526	0.260	**0.0115**	0.103	<0.001	<0.003
MW-13	10/18/2017	<0.577	<0.481	<0.10	0.00425	<0.001	<0.001	<0.003
MW-13	9/11/2018	<0.588	<0.490	<0.100	0.00208	<0.001	<0.001	<0.003
MW-13	10/2/2019	<0.566	0.225 J	0.0595 J	0.00293	<0.0005	<0.0005	<0.0015
MW-13	9/10/2020	**30.6**	**2.23**	1.02	**0.0645**	0.0283	0.00456	0.0133
MW-13	6/30/2021	**25.7**	**1.80**	1.10	**0.0624 J-**	0.00981 J-	0.0113 J-	0.0221 J-
MW-13	9/12/2022	**13.1**	**1.98**	0.511	**0.0293**	0.0149	0.00551	0.0196
ADEC Table C Groundwater Cleanup Levels[6]		**1.5**	**1.1**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**

Table 3
Summary of Analytical Results for Groundwater and Seep Water – DRO, RRO, GRO, and BTEX
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Monitoring Well	Sample Date	Analytical Results (milligrams per liter)						
		DRO[1]	RRO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes (total)[4]
MW-14	5/11/2016	**4.23**	--	0.630	**0.00785**	<0.005	**0.0229**	**0.2124**
MW-14	11/18/2016	**2.2**	0.66	0.38	**0.0051**	<0.001	0.011	0.095
MW-14	6/15/2017	**2.01**	0.594	0.536	**0.0109**	0.00168	**0.0187**	0.142
MW-14	10/20/2017	**1.68**	0.621	0.233	0.00449	<0.001	0.0111	0.0541
MW-14	9/13/2018	**1.74**	<0.490	0.282	**0.00464**	<0.001	0.0123	0.0962
MW-14	10/3/2019	**4.31**	0.400 J	0.339	**0.00527**	0.000430 J	0.00973	0.0763
MW-14-100319-01[5]	10/3/2019	**4.81**	0.386 J	0.325	**0.00520**	0.000430 J	0.00948	0.0745
MW-14	9/11/2020	**4.20**	**1.16**	0.310	**0.00519**	0.000390 J	0.00940	0.0728
MW-14[5]	9/11/2020	**3.41**	**1.26**	0.329	**0.00524**	0.000340 J	0.00940	0.0720
MW-14	7/1/2021	**3.23**	0.871	0.623	**0.00628**	<0.0005	0.0131	0.0994
MW-14	9/13/2022	**3.54**	**1.55**	0.248	**0.00538**	0.000630 J	0.00335	0.0309
MW-15	5/11/2016	**<2.40**	--	0.0394 J	**0.00517**	<0.001	<0.001	<0.003
MW-15	11/18/2016	0.51	<0.39	<0.10	0.0037	<0.001	<0.001	<0.002
MW-15	6/15/2017	<0.632	<0.526	<0.100	0.00311	0.00132	<0.001	<0.003
MW-15	10/18/2017	<0.577	<0.481	<0.100	0.00319	<0.001	<0.001	<0.003
MW-15	9/13/2018	<0.588	<0.490	<0.100	0.00405	<0.001	<0.001	<0.003
MW-15	10/3/2019	0.565 J	0.149 J	<0.0500	0.00343	<0.0005	<0.0005	<0.0015
MW-15	9/10/2020	0.784	0.743	<0.0500	0.00253	<0.0005	0.000360 J	<0.0015
MW-15	7/1/2021	1.13	0.545	0.0384 J	0.00238	<0.0005	<0.0005	<0.0015
MW-15	9/13/2022	**1.84**	**1.37**	<0.0500	0.00179	<0.0005	<0.0005	<0.0015
ADEC Table C Groundwater Cleanup Levels[6]		**1.5**	**1.1**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**

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Dillingham, Alaska
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Monitoring Well	Sample Date	Analytical Results (milligrams per liter)						
		DRO[1]	RRO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes (total)[4]
MW-16	5/11/2016	**1.82 J**	--	0.389	**0.0379**	0.000670 J	0.00402	0.0071
MW-16	11/18/2016	**2.5**	0.57	0.52	**0.012**	<0.001	0.0020	0.0038
MW-16	6/15/2017	**2.14**	0.657	0.224	**0.0394**	<0.001	**0.322**	0.00116
MW-16	10/20/2017	**1.70**	0.519	0.218	**0.0147**	<0.001	0.00140	<0.003
MW-16	9/12/2018	**1.57**	<0.481	0.373	**0.0136**	<0.001	0.00189	0.00447
DUP2-091218[5]	9/12/2018	**1.77**	<0.490	0.382	**0.0135**	<0.001	0.00188	0.00436
MW-16	10/4/2019	1.30	0.220 J	0.263	**0.0353**	0.000630 J	0.00303	0.00718
MW-16-100419-01[5]	10/4/2019	**1.66**	0.342 J	0.267	**0.0347**	0.000620 J	0.00304	0.00721
MW-16	9/13/2020	**3.95**	**1.44**	0.533	**0.0140**	0.000610 J	0.00123	0.00492
MW-16	7/2/2021	1.19	0.440 J	0.105	0.00131	0.000360 J	<0.0005	<0.0015
MW-16D[5]	7/2/2021	0.924	0.274 J	0.109	0.00141	0.000390 J	<0.0005	<0.0015
MW-16	9/26/2021	1.20	0.221 J	0.268	0.0023	0.00085 J	<0.0005	<0.0015
MW-16D[5]	9/26/2021	1.11	0.237 J	0.251	0.00214	0.000920 J	<0.0005	<0.0015
MW-16	9/14/2022	---	---	0.0691 J	0.00145	<0.0005	<0.0005	<0.0015
MW-16D[5]	9/14/2022	---	---	0.0864 J	0.00161	<0.0005	<0.0005	<0.0015
MW-17	5/11/2016	1.01 J / **1.67 J**	--	1.89 / 1.88	**0.0997 / 0.0963**	0.00218 / 0.00219	0.0121 / 0.0124	**0.28099 / 0.26999**
MW-17	11/18/2016	1.2	<0.38	1.300	**0.096**	0.0023	**0.020**	0.1625
MW-17	6/15/2017	**1.53**	0.560	1.16	**0.0940**	0.00718	**0.0708**	0.0902
MW-17	10/20/2017	1.35	<0.481	1.25	**0.117**	0.00806	**0.0516**	0.0872
MW-18	5/11/2016	**<2.45**	--	0.673	**0.0431**	0.00367	**0.0189**	0.01785
MW-18	11/18/2016	0.82	<0.39	1.9	**0.16**	<0.001	**0.017**	0.088
MW-18	6/15/2017	0.791	<0.543	2.11	**0.165**	0.0505	**0.0297**	0.154
MW-18	10/20/2017	1.00	0.498	1.09	**0.103**	<0.001	0.00187	0.0426
ADEC Table C Groundwater Cleanup Levels[6]		**1.5**	**1.1**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**

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Monitoring Well	Sample Date	Analytical Results (milligrams per liter)						
		DRO[1]	RRO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes (total)[4]
MW-19	5/11/2016	**83.5 / 108**	--	**2.41 J / 3.36 J**	**0.158 / 0.157**	0.00420 J / 0.00420 J	**0.156 / 0.155**	0.15465 / 0.154
MW-19	11/17/2016	**5.5**	0.46	1.6	**0.16**	0.0031	**0.150**	0.122
MW-19	6/14/2017	**3.79**	<0.521	1.89	**0.180**	0.00329	**0.154**	0.141
MW-19	10/19/2017	**2.99**	0.583	1.33	**0.153**	0.00214	**0.137**	0.113
MW19-101917-A[5]	10/19/2017	**5.45**	0.970	1.33	**0.148**	0.00192	**0.130**	0.111
MW-19	9/11/2018	**3.40**	0.629	1.70	**0.171**	0.00315	**0.162**	0.134
MW-19	10/3/2019	**4.54**	0.416 J	1.61 J+	**0.162** J+	0.00279 J+	**0.135** J+	0.107 J+
MW-19	9/10/2020	**4.57**	0.991	1.25	**0.149**	0.0026	**0.112**	0.107
MW-19[5]	9/10/2020	**4.40**	0.911	1.26	**0.153**	0.00272	**0.117**	0.112
MW-19	7/2/2021	**4.12**	0.876	1.71 J+	**0.125**	0.00352	**0.131**	0.118
MW-19D[5]	7/2/2021	**3.45**	0.802	1.68 J+	**0.126**	0.00353	**0.132**	0.119
MW-19	9/14/2022	**5.34**	**1.47**	1.71 J+	**0.128 J+**	0.00325 J+	**0.154 J+**	0.142 J+
MW-20	6/16/2017	1.11	0.623	1.80	**0.336**	0.0147	**0.146**	**0.358**
MW-20	10/18/2017	1.23	0.490	1.26	**0.206**	0.00492	**0.0712**	0.163
MW-20	9/11/2018	1.49	0.607	1.91	**0.175**	0.00643	**0.0842**	**0.197**
MW-20	10/4/2019	**1.97**	0.350 J	**2.64**	**0.462**	0.0153	**0.0874**	**0.225**
MW-20	9/9/2020	1.37	0.620	1.77	**0.289**	0.0101	**0.0588**	**0.192**
MW-20	6/30/2021	**1.55**	0.402 J	2.18	**0.248**	0.0101	**0.0929**	**0.252**
MW-20	9/13/2022	0.719	**<1.20**	0.190	**0.026**	<0.0005	0.00241	0.00779
ADEC Table C Groundwater Cleanup Levels[6]		**1.5**	**1.1**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**

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Monitoring Well	Sample Date	Analytical Results (milligrams per liter)						
		DRO[1]	RRO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes (total)[4]
MW-21	6/16/2017	<0.606	0.516	<0.100	0.00095	<0.001	<0.001	0.00139
MW-21	10/17/2017	<0.577	<0.481	<0.100	0.00094	<0.001	<0.001	<0.003
MW-21	9/12/2018	<0.577	<0.481	<0.100	0.00148	<0.001	<0.001	<0.003
MW-21	10/1/2019	<0.566	0.342 J	0.0577 J	0.00225	<0.0005	0.000530 J	0.00234 J
MW-21	9/11/2020	0.730	1.01	0.0461 J	0.00123	<0.0005	<0.0005	0.00116 J
MW-21	6/29/2021	0.828	0.825	0.0606 J	0.00170	<0.0005	0.000390 J	0.00200 J
MW-21	9/10/2022	1.17	**1.30**	0.0927 J	0.00173	<0.0005	<0.0005	0.00247 J
MW-22	6/16/2017	<0.619	0.571	<0.100	<0.0005	<0.001	<0.001	<0.003
MW-22	10/20/2017	<0.577	<0.481	<0.100	<0.0004	<0.001	<0.001	<0.003
MW-22	9/13/2018	<0.577	<0.481	<0.100	<0.0005	<0.001	<0.001	<0.003
MW-22	10/3/2019	0.244 J	<0.245	<0.0500	0.000370 J	<0.0005	<0.0005	<0.0015
MW-22	9/10/2020	0.293 J	0.903	<0.0500	0.000390 J	<0.0005	<0.0005	<0.0015
MW-22	7/2/2021	<0.588	<0.538	<0.0500	0.000340 J	<0.0005	<0.0005	<0.0015
MW-22	9/13/2022	0.711	**1.16 J+**	<0.0500	0.000510	<0.0005	<0.0005	<0.0015
MW-23	6/16/2017	**8.40**	0.717	**4.85**	**0.275**	0.0149	**0.0262**	0.1359
MW-23	10/19/2017	**6.82**	0.684	**2.42**	**0.172**	0.00102	**0.0207**	0.146
MW-23	9/13/2018	**6.90**	<0.490	**3.71**	**0.145**	0.00124	**0.0272**	0.162
MW-23	10/4/2019	**4.76**	0.437 J	**3.17**	**0.106** J+	0.00102 J+	**0.0196** J+	0.154 J+
MW-23	9/10/2020	**11.2**	**1.93**	**3.29**	**0.180**	0.00425 J	**0.0257**	**0.244**
MW-23	7/2/2021	**7.03**	**1.80**	**3.71**	**0.105** J+	0.00109 J+	**0.0265** J+	0.17 J+
MW-23	9/26/2021	**6.02**	0.570	**5.37**	**0.118** J+	0.00101 J+	**0.0366** J+	**0.198** J+
MW-23	9/14/2022	**9.82**	**2.49**	**3.27**	**0.177 J+**	0.00164 J+	**0.0349 J+**	**0.282 J+**
ADEC Table C Groundwater Cleanup Levels[6]		**1.5**	**1.1**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**

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Monitoring Well	Sample Date	Analytical Results (milligrams per liter)						
		DRO[1]	RRO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes (total)[4]
MW-24	9/14/2018	**2.47**	0.559	**5.64**	**0.0369**	0.027	**0.0994**	0.153
MW-24	10/4/2019	**4.06**	0.831	**6.59**	**0.0378** J+	0.0111 J+	**0.106** J+	**0.217** J+
MW-24	9/13/2020	**18.7**	**4.33**	**8.63**	**0.0640**	<0.0250	**0.112**	**0.235**
MW-24	7/2/2021	**8.15**	**2.33**	**8.55**	**0.0401** J+	0.011 J+	**0.115** J+	**0.232** J+
MW-24	9/25/2021	**9.77**	**2.29**	**10.2**	**0.0387**	0.009	**0.124**	**0.233**
MW-24	9/14/2022	**13.2**	**4.00**	**10.4**	**0.0987 J+**	0.0142 J+	**0.124 J+**	**0.255 J+**
MW-25	9/14/2018	<0.588	<0.490	<0.100	0.00163	<0.001	<0.001	<0.003
MW-25	10/3/2019	0.190 J	<0.240	<0.0500	0.000720	<0.0005	<0.0005	<0.0015
MW-25	9/13/2020	0.226 J	0.422 J	<0.0500	0.000430 J	<0.0005	<0.0005	<0.0015
MW-25	6/30/2021	0.461 J	0.467 J	<0.0500	0.00161	<0.0005	<0.0005	<0.0015
MW-25	9/15/2022	0.921	0.812	0.0706 J	0.00145	<0.0005	<0.0005	<0.0015
MW-26	9/14/2018	1.35	<0.481	**6.91**	**0.00940**	0.00525	**0.183**	**0.917**
MW-26	10/4/2019	1.18	<0.245	**7.83**	**0.0100** J+	0.00490 J+	**0.113** J+	**0.701** J+
MW-26	9/13/2020	**2.40**	0.954	**8.11**	**0.0150** J	<0.0250	**0.123**	**0.789**
MW-26	7/1/2021	**2.23**	0.811	**7.93**	0.00288	0.00357	**0.129**	**0.711**
MW-26	9/26/2021	**2.04**	0.437 J	**9.06** J+	**0.0122**	0.00552	**0.116**	**0.652**
MW-26	9/15/2022	**1.71 J**	0.769 J+	**9.53**	**0.0184 J+**	0.00520 J+	**0.13 J+**	**0.783 J+**
MW-27	9/13/2020	**3.55**	**2.16**	0.358	**0.0319**	0.000680 J	0.00569	0.0578
MW-27	7/2/2021	**1.74**	<0.255	0.0536 J	0.00017 J	<0.0005	<0.0005	<0.0015
MW-27	9/25/2021	1.22 J	<0.261 J	<0.0500	0.00030 J	<0.0005	<0.0005	<0.0015
MW-27	9/14/2022	**1.87**	**1.34**	<0.0500	0.000660	<0.0005	<0.0005	<0.0015
ADEC Table C Groundwater Cleanup Levels[6]		**1.5**	**1.1**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**

Table 3
Summary of Analytical Results for Groundwater and Seep Water – DRO, RRO, GRO, and BTEX
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Monitoring Well	Sample Date	Analytical Results (milligrams per liter)						
		DRO[1]	RRO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes (total)[4]
MW-29	9/13/2020	**3.15**	**1.54**	**14.8**	**1.20**	**2.62**	**0.514**	**2.23**
MW-29	7/1/2021	**2.10**	0.425 J	**2.55**	**0.152** J+	0.00497 J+	**0.112 J+**	0.183 J+
MW-29	9/26/2021	**4.24**	0.641	**7.22**	**0.754**	0.128	**0.201**	**0.354**
MW-29	9/15/2022	**1.96 J**	0.892 J	**6.35**	**0.476 J+**	0.503 J+	**0.240 J+**	**0.532 J+**
MW-30	9/14/2020	**2.92**	**1.51**	1.78	**0.481** J+	0.0205 J+	**0.0422** J+	**0.253** J+
MW-30	7/1/2021	**1.92**	0.572	**3.94**	**0.0755**	0.00736	**0.0630**	0.183
MW-30	9/26/2021	**2.06**	0.426 J	**5.50**	**0.0940**	0.00658	**0.0579**	0.166
MW-30	9/15/2022	1.18 J	0.763 J+	**5.56**	**0.139 J+**	0.0204 J+	**0.0651 J+**	**0.247 J+**
ADEC Table C Groundwater Cleanup Levels[6]		**1.5**	**1.1**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**
Seep Water Sample								
SEEP-1	9/15/2012	0.96	--	3.8	0.38	0.51	0.10	0.41
SEEP-1	6/19/2014	0.70	--	2.2	0.34	0.075	0.045	0.17
SEEP-1	9/29/2014	0.77	--	2.9	0.38	0.15	0.055	0.20
Seep-061417	6/14/2017	--	--	--	0.310	0.0432	0.0301	0.161
SEEP-091318[7]	9/13/2018	--	--	--	0.313	0.139	0.0605	0.261
SEEP-100419[7]	10/4/2019	--	--	--	0.318	0.0618	0.0461	0.258
SEEP-091320[7]	9/13/2020	--	--	--	0.728	0.274	0.695	2.641
SEEP-070221	7/2/2021	--	--	--	0.00272	0.00036 J	0.00391	0.0167
SEEP-092521	9/25/2021	--	--	--	0.0467	0.0103	0.00885	0.0235
SEEP-091422	9/14/2022	--	--	--	0.0161	0.00252	0.0102	0.0326

NOTES:
Results in **bold** denote concentrations exceeding applicable cleanup levels.
Values separated by a forward slash (/) indicate sample and corresponding quality assurance/quality control duplicate sample results for samples collected prior to November 2016.
< denotes analyte not detected at or exceeding the laboratory reporting limit listed.
-- denotes sample was not analyzed.
[1]Analyzed by State of Alaska Series Method AK102.
[2]Analyzed by State of Alaska Series Method AK103.
[3]Analyzed by State of Alaska Series Method AK101.
[4]Analyzed by U.S. Environmental Protection Agency Methods 8021B, 8260B, 8260C or 8260D.
[5]Field quality assurance/quality control duplicate sample.
[6]Levels established in Table C, *Groundwater Cleanup Levels* , in Section 345 of Chapter 75 of Title 18 of the Alaska Administrative Code, as amended through October 27, 2018.
[7]Analyzed by U.S. Environmental Protection Agency Method 624.

ADEC = Alaska Department of Environmental Conservation
BTEX = benzene, toluene, ethylbenzene, and xylenes
DRO = total petroleum hydrocarbons (TPH) as diesel-range organics
GRO = TPH as gasoline-range organics
J = results is an estimate
J+ = result is an estimate with a potential high bias
RRO = TPH as residual-range organics

Table 4
Summary of Analytical Results for Groundwater – Volatile Organic Compounds
October 2017 through September 2022
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

		Analytical Results[1] (micrograms per liter)																		
Monitoring Well	**Sample Date**	**1,2,4-Trimethylbenzene**	**1,2-Dichloroethane**	**1,3,5-Trimethylbenzene**	**1,4-Dichlorobenzene**	**4-Isopropyltoluene**	**Benzene**	**cis-1,2-Dichloroethene**	**Dichlorodifluoromethane**	**Ethylbenzene**	**Isopropylbenzene (Cumene)**	**Naphthalene**	**n-Butylbenzene**	**n-Propylbenzene**	**O-Xylene**	**P- & M-Xylene**	**Total Xylenes**	**sec-Butylbenzene**	**tert-Butylbenzene**	**Toluene**
B1MW	10/17/2017	**596**	<0.500	**191**	<0.500	13.7	**251**	<1.00	<1.00	**140**	14.6	**54.5**	<1.00	23.2	1,040	1,860	**2,900**	2.56	6.04	231
B1MW	9/11/2018	**636**	<0.500	**203**	<0.500	12.4	**145**	<1.00	<1.00	**123**	12.5	**50.0**	<1.00	16.9	643	1,550	**2,190**	1.97	5.42	160
DUP1-091118[2]	9/11/2018	**640**	<0.500	**201**	<0.500	11.9	**143**	<1.00	<1.00	**120**	12	**51.2**	<1.00	16.6	625	1,520	**2,150**	1.87	5.40	154
B3MW	10/17/2017	**105**	<0.500	12.8	<0.500	2.18	**6.29**	<1.00	<1.00	**23.2**	4.46	**20.0**	<1.00	9.13	9.46	58.7	73.2	<1.00	<1.00	2.34
TW-2	10/18/2017	<1.00	<0.500	<1.00	<0.500	<1.00	<0.400	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<3.00	<1.00	<1.00	<1.00
MW-5R	10/18/2017	**107**	1.64	37.6	<0.500	13.7	**74.5**	<1.00	1.38	**29.9**	9.02	**46.1**	<1.00	18.1	5.44	40.8	46.2	5.55	<1.00	1.79
MW-6	10/18/2017	<1.00	<0.500	<1.00	<0.500	<1.00	**5.75**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<3.00	<1.00	<1.00	<1.00
MW-7	10/18/2017	26.3	<0.500	9.85	<0.500	1.33	**81.3**	<1.00	<1.00	4.98	2.90	**12.8**	<1.00	3.79	15.5	17.3	32.8	1.32	<1.00	3.27
MW-8	10/17/2017	**412**	<0.500	**166**	<0.500	17.3	**5.17**	<1.00	<1.00	**102**	44.5	**278**	<1.00	69.3	56.5	340	**397**	14.2	<1.00	1.45
MW-8-101717-A[2]	10/17/2017	**419**	<0.500	**163**	<0.500	16.9	**5.01**	<1.00	<1.00	**108**	49.5	**586**	<1.00	69.3	65.2	383	**448**	13.9	<1.00	1.35
MW-9	10/17/2017	<1.00	<0.500	<1.00	<0.500	<1.00	<0.400	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<3.00	<1.00	<1.00	<1.00
MW-10	10/19/2017	**105**	0.770	38.4	<0.500	2.47	**98.5**	<1.00	<1.00	**66.8**	10.2	**207**	<1.00	10.3	7.38	105	113	1.10	<1.00	1.06
MW-10	9/13/2020	**153**	0.622	51.9	<0.250	3.24	**94.0**	<0.500	<0.500	**81.5**	13.5	**227**	<0.500	14.7	2.33	121	123	1.65	0.736 J	1.99
MW-10	7/2/2021	17.9	0.590	8.26	<0.250	0.426 J	**58.9**	<0.500	<0.500	**17.9**	2.68	**10.2**	<0.500	1.46	0.595 J	22.4	23.0	<0.500	<0.500	0.655 J
MW-10	9/25/2021	3.43	0.730	2.29	<0.250	0.390 J	**70.0**	<0.500	<0.500	7.33	0.980 J	0.640 J	<0.500	0.320 J	<0.500	6.97	6.97	<0.500	<0.500	0.450 J
MW-10	9/14/2022	34.9	0.330 J	14.2	<0.250	2.42	**48.8**	<0.500	<0.500	**26.1**	4.05	**24.1**	<0.500	2.60	0.880 J	32.9	33.7	0.420 J	<0.500	0.820 J
MW-11R	10/19/2017	1.20	<0.500	<1.00	<0.500	<1.00	**269**	<1.00	<1.00	1.52	<1.00	**1.97**	<1.00	<1.00	<1.00	<2.00	<3.00	<1.00	<1.00	<1.00
MW-11R-101917-A[2]	10/19/2017	1.19	<0.500	<1.00	<0.500	<1.00	**252**	<1.00	<1.00	1.43	<1.00	**1.90**	<1.00	<1.00	<1.00	<2.00	<3.00	<1.00	<1.00	<1.00
MW-11R	10/4/2019	0.743 J	<0.250	<0.500	<0.250	<0.500	**28.9**	<0.500	<0.500	0.621 J	0.636 J	0.954 J	<0.500	0.557 J	<0.500	1.03 J	1.03 J	0.359 J	<0.500	<0.500
MW-11R	9/13/2020	<0.500	<0.250	<0.500	<0.250	<0.500	**49.7**	<0.500	<0.500	<0.500	0.396 J	<0.500	<0.500	<0.500	<0.500	<1.00	<1.50	<0.500	<0.500	<0.500
MW-11RD-091320[2]	9/13/2020	<0.500	<0.250	<0.500	<0.250	<0.500	**54.5**	<0.500	<0.500	<0.500	0.398 J	<0.500	<0.500	<0.500	<0.500	<1.00	<1.50	<0.500	<0.500	<0.500
MW-11R	7/2/2021	<0.500	<0.250	<0.500	<0.250	<0.500	1.67	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.50	<0.500	<0.500	<0.500
MW-11R	9/26/2021	<0.500	<0.250	<0.500	<0.250	<0.500	**36.9**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.50	<0.500	<0.500	<0.500
MW-11R	9/14/2022	0.370 J	<0.250	<0.500	<0.250	<0.500	**51.7**	<0.500	<0.500	0.780 J	<0.500	<0.500	<0.500	<0.500	<0.500	1.78 J	1.78 J	<0.500	<0.500	<0.500
MW-12	10/18/2017	1.11	<0.500	<1.00	<0.500	<1.00	1.49	<1.00	7.41	<1.00	<1.00	<1.00	<1.00	<1.00	1.13	3.39	4.52	<1.00	<1.00	<1.00
MW-13	10/18/2017	<1.00	<0.500	<1.00	<0.500	<1.00	4.25	<1.00	2.37	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<3.00	<1.00	<1.00	<1.00
MW-14	10/20/2017	**86.8**	<0.500	24.2	<0.500	5.48	4.49	<1.00	<1.00	11.1	4.98	**122**	<1.00	7.02	15.3	38.9	54.1	3.37	<1.00	<1.00
MW-15	10/18/2017	<1.00	<0.500	<1.00	<0.500	<1.00	3.19	1.17	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<3.00	<1.00	<1.00	<1.00
ADEC Table C Cleanup Levels[3]		**56**	**1.7**	**60**	**4.8**	**NE**	**4.6**	**36**	**200**	**15**	**450**	**1.7**	**1,000**	**660**	**NE**	**NE**	**190**	**2,000**	**690**	**1,100**

Table 4
Summary of Analytical Results for Groundwater – Volatile Organic Compounds
October 2017 through September 2022
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

		Analytical Results[1] (micrograms per liter)																		
Monitoring Well	**Sample Date**	**1,2,4-Trimethylbenzene**	**1,2-Dichloroethane**	**1,3,5-Trimethylbenzene**	**1,4-Dichlorobenzene**	**4-Isopropyltoluene**	**Benzene**	**cis-1,2-Dichloroethene**	**Dichlorodifluoromethane**	**Ethylbenzene**	**Isopropylbenzene (Cumene)**	**Naphthalene**	**n-Butylbenzene**	**n-Propylbenzene**	**O-Xylene**	**P- & M-Xylene**	**Total Xylenes**	**sec-Butylbenzene**	**tert-Butylbenzene**	**Toluene**
MW-16	10/20/2017	3.11	1.16	1.62	<0.500	2.23	**14.7**	<1.00	<1.00	1.40	2.13	**7.50**	<1.00	1.95	<1.00	2.01	<3.00	2.10	<1.00	<1.00
MW-16	10/4/2019	10.1	0.778	3.48	0.245 J	3.77	**32.0**	<0.500	<0.500	3.16	3.03	**15.8**	<0.500	3.80	0.707 J	5.06	5.77	1.54	0.603 J	0.619 J
MW16-100419-01[2]	10/4/2019	10.3	0.865	3.51	0.239 J	3.79	**34.5**	<0.500	<0.500	3.26	3.01	**15.6**	<0.500	3.88	0.735 J	5.17	5.91	1.51	0.603 J	0.608 J
MW-16	9/13/2020	4.17	1.53	2.16	<0.250	<0.500	**10.1**	<0.500	<0.500	1.20	1.94	**6.50**	<0.500	1.92	<0.500	3.77	3.77	3.68	0.885 J	0.344 J
MW-16	7/2/2021	<0.500	0.449 J	<0.500	<0.250	<0.500	0.740	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.50	0.392 J	<0.500	<0.500
MW-16D[2]	7/2/2021	<0.500	0.490 J	<0.500	<0.250	<0.500	0.805	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.50	0.416 J	<0.500	<0.500
MW-16	9/26/2021	<0.500	0.910	<0.500	<0.250	<0.500	1.01	<0.500	<0.500	<0.500	0.510 J	0.310 J	<0.500	<0.500	<0.500	<1.00	<1.50	0.930 J	0.370 J	<0.500
MW-16D[2]	9/26/2021	<0.500	0.940	<0.500	<0.250	<0.500	1.05	<0.500	<0.500	<0.500	0.520 J	<0.500	<0.500	<0.500	<0.500	<1.00	<1.50	0.950 J	0.360 J	<0.500
MW-16	9/14/2022	<0.500	<0.250	<0.500	<0.250	<0.500	1.45	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.50	<0.500	<0.500	<0.500
MW-17	10/20/2017	43.4	0.780	3.44	<0.500	2.40	**117**	<1.00	<1.00	**51.6**	2.69	**24.4**	<1.00	3.53	10.1	77.1	87.2	<1.00	<1.00	8.06
MW-18	10/20/2017	6.80	<0.500	4.21	<0.500	<1.00	**103**	<1.00	<1.00	1.87	2.30	**2.87**	<1.00	2.88	<1.00	42.6	42.6	<1.00	<1.00	<1.00
MW-19	10/19/2017	**313**	**3.49**	**106**	<0.500	12.6	**153**	<1.00	<1.00	**137**	40.3	**354**	<1.00	55.9	<1.00	112	113	13.0	<1.00	2.14
MW-19-101917-A[2]	10/19/2017	**336**	**3.53**	**99.6**	<0.500	11.7	**148**	<1.00	<1.00	**130**	38.3	**361**	<1.00	50.6	<1.00	110	111	11.6	<1.00	1.92
MW-19	9/11/2018	**442**	**3.62**	**108**	<0.500	37.1	**171**	<1.00	<1.00	**162**	46.4	**429**	<1.00	63.5	1.34	132	134	15.7	1.85	3.15
MW-20	10/18/2017	**60**	**1.91**	21.9	<0.500	2.75	**206**	<1.00	1.19	**71.2**	6.74	**47.7**	<1.00	8.86	18.4	145	163	2.09	<1.00	4.92
MW-20	9/11/2018	**112**	**1.92**	42.9	<0.500	2.82	**175**	<1.00	2.5	**84.2**	8.09	**63.7**	<1.00	12.4	18.3	179	**197**	2.60	1.09	6.43
MW-21	10/17/2017	2.84	<0.500	<1.00	<0.500	<1.00	0.940	27.6	<1.00	<1.00	<1.00	**5.36**	<1.00	<1.00	<1.00	<2.00	<3.00	<1.00	<1.00	<1.00
MW-22	10/20/2017	<1.00	<0.500	<1.00	<0.500	<1.00	<0.400	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<3.00	<1.00	<1.00	<1.00
MW-23	10/19/2017	7.37	<0.500	4.03	<0.500	<1.00	**172**	<1.00	<1.00	**20.7**	1.96	**1.77**	<1.00	2.33	51.5	94.1	146	<1.00	<1.00	1.02
MW-24	9/13/2020	52.2	<1.25	26.9	<1.25	4.08 J	**33.6**	<2.50	<2.50	**105**	6.58	**211**	<0.500	8.22	4.10 J	213	**217**	<2.50	<2.50	9.49
MW-26	10/4/2019	**223**	<0.250	**78.0**	<0.500	7.67	2.80	<0.500	<0.500	**119**	14.7	**153**	<0.500	27.6	3.81	769	**773**	5.42	<0.500	4.52
MW-26	9/13/2020	**212**	<0.500	**64.8**	<0.500	6.10	2.50	<1.00	<1.00	**109**	12.4	**146**	<0.500	22.2	2.24	700	**703**	4.53	0.686 J	3.83
MW-26	7/1/2021	**208**	<0.250	**70.0**	<0.250	7.59	2.88	<0.500	<0.500	**129**	14.0	**120**	3.72	22.7	2.57	708	**711**	5.11	0.737 J	3.57
MW-26	9/26/2021	**195**	<0.250	**65.3**	<0.250	6.65	2.72	<0.500	<0.500	**98.9**	12.3	**117**	<0.500	22.3	<5.00	624	**624**	4.45	<0.500	3.34
MW-26	9/15/2022	**220**	<1.25	**65.7**	<1.25	16.4	3.00	<2.50	<2.50	**107**	11.6	**122**	<2.50	21.5	1.90 J	703	**705**	5.05	<2.50	3.65 J
ADEC Table C Cleanup Levels[3]		**56**	**1.7**	**60**	**4.8**	**NE**	**4.6**	**36**	**200**	**15**	**450**	**1.7**	**1,000**	**660**	**NE**	**NE**	**190**	**2,000**	**690**	**1,100**

Table 4
Summary of Analytical Results for Groundwater – Volatile Organic Compounds
October 2017 through September 2022
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

		Analytical Results[1] (micrograms per liter)																		
Monitoring Well	**Sample Date**	**1,2,4-Trimethylbenzene**	**1,2-Dichloroethane**	**1,3,5-Trimethylbenzene**	**1,4-Dichlorobenzene**	**4-Isopropyltoluene**	**Benzene**	**cis-1,2-Dichloroethene**	**Dichlorodifluoromethane**	**Ethylbenzene**	**Isopropylbenzene (Cumene)**	**Naphthalene**	**n-Butylbenzene**	**n-Propylbenzene**	**O-Xylene**	**P- & M-Xylene**	**Total Xylenes**	**sec-Butylbenzene**	**tert-Butylbenzene**	**Toluene**
MW-27	9/13/2020	**85.1**	0.514	29.1	1.36	7.17	**28.0**	<0.500	<0.500	5.19	10.4	**53.8**	<0.500	8.70	7.91	46.2	54.1	4.03	0.845 J	0.648 J
MW-27	7/2/2021	<0.500	<0.250	<0.500	<0.250	<0.500	<0.200	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.50	<0.500	<0.500	<0.500
MW-27	9/25/2021	<0.500	<0.250	<0.500	<0.250	<0.500	0.170 J	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.50	<0.500	<0.500	<0.500
MW-27	9/14/2022	<0.500	<0.250	<0.500	<0.250	<0.500	0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.50	<0.500	<0.500	<0.500
MW-29	9/13/2020	**191**	<0.250	**64.1**	<0.250	3.33	**780**	<0.500	<0.500	**407**	11.9	**45.9**	<0.500	23.9	321	1,630	**1,950**	2.86	1.14	**2,010**
MW-29	7/1/2021	**203**	<0.250	**83.6**	<0.250	4.32	**147**	<0.500	<0.500	**121**	13.7	**58.0**	<0.500	26.3	4.35	199	**204**	4.42	2.35	4.02
MW-29	9/26/2021	**160**	<0.250	**64.2**	<0.250	11.4	**653**	<0.500	<0.500	**183**	12.1	**35.6**	<0.500	21.3	17.7	287	**305**	2.48	1.76	102
MW-29	9/15/2022	**67.6**	<1.25	32.5	<1.25	4.80 J	**412**	<2.50	<2.50	**235**	9.25	**7.60**	<2.50	10.5	46.7	486	**532**	<2.50	<2.50	443
MW-30	9/14/2020	**197**	<0.250	**67.0**	<0.250	6.53 J	**791**	<0.500	<0.500	**720**	14.8	**43.1**	<0.500	22.1	378	2,280	**2,660**	<0.500	<0.500	281
MW-30	7/1/2021	**178**	<0.250	**65.8**	<0.250	7.83	**80.8**	<0.500	<0.500	**76.7**	8.97	**40.7**	6.91	19.3	10.1	221	**231**	3.31	1.63	6.63
MW-30	9/26/2021	**168**	<0.250	**69.3**	<0.250	8.37	**123**	<0.500	<0.500	**78.5**	9.20	**35.2**	<0.500	22.0	4.43	164	**168**	3.07	1.62	7.11
MW-30	9/15/2022	**182**	<0.500	**69.2**	<0.500	7.98	**99.9**	<1.00	<1.00	**63.8**	8.06	**34.0**	<1.00	19.9	10.1	237	**247**	3.38	1.64 J	17.2
ADEC Table C Cleanup Levels[3]		**56**	**1.7**	**60**	**4.8**	**NE**	**4.6**	**36**	**200**	**15**	**450**	**1.7**	**1,000**	**660**	**NE**	**NE**	**190**	**2,000**	**690**	**1,100**

NOTES:

Results in **bold** denote concentrations exceeding applicable cleanup levels.

< denotes analyte not detected at or exceeding the laboratory reporting limit listed.

[1]Analyzed by U.S. Environmental Protection Agency Method 8260C or 8260D.

[2]Field quality assurance/quality control duplicate sample.

[3]Levels established in Table C, *Groundwater Cleanup Levels* , in Section 345 of Chapter 75 of Title 18 of the Alaska Administrative Code, as amended through October 27, 2018.

ADEC = Alaska Department of Environmental Conservation

J = result is an estimate

NE = ADEC Table C cleanup level not established

Table 5
Summary of Analytical Results for Groundwater and Seep Water– Polynuclear Aromatic Hydrocarbons
October 2017 through September 2022
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Monitoring Well	Sample Date	Analytical Results[1] (micrograms per liter)								
		1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Fluorene	Naphthalene	Phenanthrene	Pyrene
MW-10	10/19/2017	**18.1**	19.6	0.360	<0.0481	<0.0481	0.122	**88.1**	<0.0481	<0.0481 J
MW-10	9/13/2018	**25.5**	28.8	<0.481	<0.481	<0.481	<0.481	**119**	<0.481	<0.0481
MW-10	9/13/2020	**32.6**	37.5	0.73	<0.0254	<0.0254	0.337	**141**	<0.0254	<0.0254
MW-10	7/2/2021	1.39	1.43	<0.0240	<0.0240	<0.0240	<0.0240	**8.14**	<0.0240	<0.0240
MW-10	9/25/2021	1.08	1.19	0.0331 J	<0.0240	<0.0240	0.0164 J	**12.4**	<0.0481	<0.0240
MW-10	9/14/2022	1.45	0.764	0.0901	<0.0255	<0.0255	<0.0255	**9.69**	<0.0510	<0.0255
MW-11R	10/19/2017	0.179	0.129	<0.0481	<0.0481	<0.0481	<0.0481	0.552	<0.0481	<0.0481
MW-11R-101917-A[2]	10/19/2017	0.248	0.169	<0.0481	<0.0481	<0.0481	<0.0481	0.752	<0.0481	<0.0481
MW-11R	10/4/2019	0.0409 J	0.0398 J	<0.0240	<0.0240	<0.0240	<0.0240	0.117	<0.0240	<0.0240
MW-11R	9/13/2020	<0.0250	<0.0250	0.0418 J	<0.0250	0.0366 J	<0.0250	0.0989 J	0.0509	<0.0250
MW-11RD-091320[2]	9/13/2020	<0.0252	<0.0252	<0.0252	<0.0252	0.0345 J	<0.0252	0.0834 J	0.0417 J	<0.0252
MW-11R	9/28/2021	0.0156 J	0.0185 J	<0.0245	<0.0245	<0.0245	<0.0245	0.0335 J	<0.049	<0.0245
MW-11R	9/14/2022	0.0408 J	<0.0481	<0.0240	<0.0240	<0.0240	<0.0240	0.0803 J	<0.0481	<0.024
MW-16	10/20/2017	2.82	0.382	0.360	<0.0472	<0.0472	0.502	**4.95**	0.0680	<0.0472
MW-16	9/12/2018	<0.0481	<0.0481	0.199	<0.0481	<0.0481	0.166	<0.0962	<0.0481	<0.0481
DUP2-091218[2]	9/12/2018	<0.0481	<0.0481	0.193	<0.0481	<0.0481	0.129	<0.0962	<0.0481	<0.0481
MW-16	10/4/2019	3.61	0.467 J	0.348	<0.0232	<0.0232	0.603	**6.00**	0.0637	<0.0232
MW16-100419-01[2]	10/4/2019	4.75	0.802 J	0.386	<0.0240	<0.0240	0.693	**7.73**	0.0957	<0.0240
MW-16	9/13/2020	1.87	0.417	<0.0254	<0.0254	<0.0254	0.313	**4.88**	<0.0254	<0.0254
MW-16	7/2/2021	<0.0255	<0.0255	0.0192 J	<0.0255	<0.0255	<0.0255	0.0510 J	<0.0255	<0.0255
MW-16D[2]	7/2/2021	<0.0245	<0.0245	0.0154 J	<0.0245	<0.0245	<0.0245	0.0551 J	<0.0245	<0.0245
MW-16	9/26/2021	<0.0245	<0.0245	0.0214 J	<0.0245	<0.0245	<0.0245	<0.049	<0.049	<0.0245
MW-16D[2]	9/26/2021	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<0.05	<0.0250
MW-16	9/14/2022	0.0231 J	<0.049	<0.0245	<0.0245	0.0178 J	<0.0245	0.0741 J	<0.0490	<0.0245
MW-17	10/20/2017	5.66	3.88	0.184	<0.0490	<0.0490	0.227	**14.6**	0.114	<0.0490
MW-18	10/20/2017	1.09	0.126	0.0528	<0.0472	<0.0472	0.0472	1.70	<0.0472	<0.0472
MW-23	10/19/2017	0.275	0.222	0.119	<0.0490	<0.0490	<0.0490	0.699	<0.0490	<0.0490
MW-24	9/13/2020	**19.8**	1.34	0.930	<0.0256	<0.0256	1.03	**86.3**	0.162	<0.0256
MW-26	10/4/2019	**48.7**	**58.7**	0.580	0.137	<0.0240	2.51	**66.4**	1.13	<0.0240
MW-26	9/13/2020	**54.0**	**62.6**	0.772	0.195	<0.0259	3.36	**75.4**	1.53	<0.0259
MW-26	7/1/2021	**37.3**	**37.2**	0.538	<0.0250	<0.0250	2.25	**51.7**	0.816	<0.0250
MW-26	9/26/2021	**50.7**	**57.3**	0.707	0.160	<0.0240	2.94	**65.7**	1.18	<0.0240
MW-26	9/15/2022	**54.3**	**63.8**	0.774	<0.0240	<0.0240	3.01	**69.9**	1.25	<0.0240
ADEC Table C Cleanup Levels[3]		**11**	**36**	**530**	**260**	**43**	**290**	**1.7**	**170**	**120**

Table 5
Summary of Analytical Results for Groundwater and Seep Water– Polynuclear Aromatic Hydrocarbons
October 2017 through September 2022
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Monitoring Well	Sample Date	Analytical Results[1] (micrograms per liter)								
		1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Fluorene	Naphthalene	Phenanthrene	Pyrene
MW-27	9/13/2020	**17.6**	22.3	0.335	<0.0254	<0.0254	0.721	**26.0**	0.221	<0.0254
MW-27	7/2/2021	0.160	0.201	<0.0255	<0.0255	<0.0255	0.0173 J	0.112	<0.051	<0.0255
MW-27	9/25/2021	0.0384 J	0.0405 J	<0.0245 J	<0.0245 J	<0.0245 J	<0.0245 J	0.0561 J	<0.049	<0.0245 J
MW-27	9/14/2022	<0.049	0.0496	<0.0245	<0.0245	<0.0245	<0.0245	0.0431 J	<0.0490	<0.0245
MW-29	9/13/2020	7.45	10.3	0.121	<0.0259	<0.0259	0.204	**32.6**	0.0945	<0.0259
MW-29	7/1/2021	2.61	3.45 J-	0.0800 J	<0.125 J	<0.125 J	0.101 J-	**5.81 J-**	<0.25 J-	<0.125
MW-29	9/26/2021	10.8	19.1	0.122	0.0189 J	<0.0240	0.163	**30.6**	0.139	0.0196 J-
MW-29	9/15/2022	6.06	6.00	0.0580	<0.0240	<0.0240	0.0322 J	**16.7**	<0.0481	<0.0240
MW-30	9/14/2020	7.33	7.30	0.218	<0.0265	<0.0265	0.221	**26.4**	0.196	<0.0265
MW-30	7/1/2021	4.41 J-	3.12 J-	0.268 J-	<0.123 J	<0.123 J	0.263 J-	**5.04 J-**	0.251 J-	0.0847 J-
MW-30	9/26/2021	5.61	7.23	0.183	0.0282 J	0.0259 J	0.165	**15.9**	0.149	0.0361 J-
MW-30	9/15/2022	2.41	1.47	0.223	<0.0240	0.0147 J	0.129	**6.75**	0.0623 J	0.0178 J
ADEC Table C Cleanup Levels[3]		**11**	**36**	**530**	**260**	**43**	**290**	**1.7**	**170**	**120**
Seep Water Sample										
SEEP-091318	9/13/2018	--	--	0.138	<0.0472	<0.0472	0.566	3.40	0.527	<0.0472
SEEP-100419	10/4/2019	1.38	1.37	0.0565	<0.0236	<0.0236	0.167	5.22	0.0757	<0.0236
SEEP-091320	9/13/2020	0.132	<0.0265	<0.0265	<0.0265	<0.0265	0.275	7.25	0.121	<0.0265
SEEP-070221	7/2/2021	<0.0240 J	<0.0481	<0.0240	<0.0240 J	<0.0240 J	<0.0240 J	0.0331 J-	<0.0481 J-	0.0191 J
SEEP-092521	9/25/2021	0.0522 J	0.0257 J	<0.0240 J	<0.0240 J	<0.0240 J	0.0169 J	0.135 J	<0.0481	<0.0240 J
SEEP-091422	9/14/2022	<0.049	<0.049	<0.0245	<0.0245	<0.0245	<0.0245	0.0364 J	<0.0490	<0.0245

NOTES:

Results in **bold** denote concentrations exceeding applicable cleanup levels.

< denotes analyte not detected at or exceeding the laboratory reporting limit listed.

-- denotes sample not analyzed or result not reported for this constituent.

[1]Analyzed by U.S. Environmental Protection Agency Method 8270D SIM.

[2]Field quality assurance/quality control duplicate sample.

[3]Levels established in Table C, *Groundwater Cleanup Levels* , in Section 345 of Chapter 75 of Title 18 of the Alaska Administrative Code, as amended through October 27, 2018.

ADEC = Alaska Department of Environmental Conservation

J = result is an estimate

Table 6
Summary of Analytical Results for Groundwater and Seep Water for TAH and TAqH Determination
September 2020 through September 2022
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

		Analytical Results[1,2] (micrograms per liter)											
Monitoring Well	**Sample Date**	**Benzene**	**Ethylbenzene**	**Toluene**	**Total Xylenes**	**Acenaphthene**	**Acenaphthylene**	**Anthracene**	**Fluorene**	**Phenanthrene**	**Pyrene**	**TAH**	**TAqH**
MW-10	9/13/2020	94.0	81.5	123	1.99	0.73	<0.0254	<0.0254	0.337	<0.0254	<0.0254	**300**	**302**
MW-10	7/2/2021	58.9	17.9	23.0	0.655	<0.0240	<0.0240	<0.0240	<0.0240	<0.0240	<0.0240	**100**	**100**
MW-10	9/25/2021	70.0	7.33	7.0	0.45	0.0331	<0.0240	<0.0240	0.0164	0.0385	<0.0240	**84.8**	**84.8**
MW-10	9/14/2022	48.8	26.1	0.820 J	33.7	0.0901	<0.0255	<0.0255	<0.0255	<0.051	<0.0255	**109.4**	**109.5**
MW-11R	9/13/2020	49.7	<0.500	<1.50	<0.500	0.0418	<0.0250	0.0366 J	<0.0250	0.0509	<0.0250	**49.7**	**49.8**
MW-11RD-091320[2]	9/13/2020	54.5	<0.500	<1.50	<0.500	<0.0252	<0.0252	0.0345 J	<0.0252	0.0417	<0.0252	**54.5**	**54.5**
MW-11R	7/2/2021	1.67	<0.500	<1.50	<0.500	--	--	--	--	--	--	1.7	--
MW-11R	9/28/2021	36.9	<0.500	<1.50	<0.500	<0.0245	<0.0245	<0.0245	<0.0245	0.0158	<0.0245	**36.9**	**36.9**
MW-11R	9/14/2022	51.7	0.780 J	<0.500	1.78 J	<0.0240	<0.0240	<0.0240	<0.0240	<0.0481	<0.0240	**54.3**	**54.3**
MW-16	9/13/2020	10.1	1.20	3.77	0.344 J	<0.0254	<0.0254	<0.0254	0.313	<0.0254	<0.0254	**15.1**	**15.4**
MW-16	7/2/2021	0.740	<0.500	<1.50	<0.500	0.019	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	0.7	0.8
MW-16D[2]	7/2/2021	0.805	<0.500	<1.50	<0.500	0.015	<0.0245	<0.0245	<0.0245	<0.0245	<0.0245	0.8	0.8
MW-16	9/26/2021	1.01	<0.500	<1.50	<0.500	0.021	<0.0245	<0.0245	<0.0245	0.0263	<0.0245	1.01	1.1
MW-16D[2]	9/26/2021	1.05	<0.500	<1.50	<0.500	<0.0250	<0.0250	<0.0250	<0.0250	0.0182	<0.0250	1.05	1.07
MW-16	9/14/2022	1.45	<0.500	<0.500	<1.50	<0.0245	<0.0245	0.0178 J	<0.0245	<0.0490	<0.0245	1.45	1.47
MW-26	9/13/2020	2.50	109	703	3.83	0.772	0.195	<0.0259	3.36	1.53	<0.0259	**818**	**824**
MW-26	7/1/2021	2.88	129	711	3.57	0.538	<0.0250	<0.0250	2.25	0.816	<0.0250	**846**	**850**
MW-26	9/26/2021	2.72	98.9	624	3.34	0.707	0.16	<0.0240	2.94	1.18	<0.0240	**729**	**734**
MW-26	9/15/2022	3.00	107	3.65 J	705	0.774	<0.0240	<0.0240	3.01	1.25	<0.0240	**819**	**824**
MW-27	9/13/2020	28.0	5.19	54.1	0.648 J	0.335	<0.0254	<0.0254	0.721	0.221	<0.0254	**87.3**	**88.6**
MW-27	7/2/2021	<0.200	<0.500	<1.50	<0.500	<0.0255	<0.0255	<0.0255	0.0173	0.0187	<0.0255	0.0	0.04
MW-27	9/25/2021	0.17	<0.500	<1.50	<0.500	<0.0245	<0.0245	<0.0245	<0.0245	0.0406	<0.0245	0.17	0.21
MW-27	9/14/2022	0.500	<0.500	<0.500	<1.50	<0.0245	<0.0245	<0.0245	<0.0245	<0.049	<0.0245	0.50	0.50
MW-29	9/13/2020	780	407	1,950	2,010	0.121	<0.0259	<0.0259	0.204	0.0945	<0.0259	**5,147**	**5,147**
MW-29	7/1/2021	147	121	204	4.02	0.080	<0.125	<0.125	0.101	0.0752	<0.125	**476**	**476**
MW-29	9/26/2021	653	183	305	102	0.122	0.0189	<0.0240	0.163	0.139	0.0196	**1,243**	**1,243**
MW-29	9/15/2022	412	235	443	532	0.0580	<0.0240	<0.024	0.0322 J	<0.0481	<0.0240	**1,622**	**1,622**
MW-30	9/14/2020	791	720	2,660	281	0.218	<0.0265	<0.0265	0.221	0.196	<0.0265	**4,452**	**4,453**
MW-30	7/1/2021	80.8	76.7	231	6.63	0.268	<0.123	<0.123	0.263	0.251	0.0847	**395**	**396**
MW-30	9/26/2021	123	78.5	168	7.11	0.183	0.0282	0.0259	0.165	0.149	0.0351	**377**	**377**
MW-30	9/15/2022	99.9	63.8	17.2	247	0.223	<0.0240	0.0147 J	0.129	0.0623 J	0.0178 J	**428**	**428**
ADEC Water Quality Standards for Petroleum Hydrocarbons, Oils and Grease, for Marine Water Uses[3]												**10**	**15**

Table 6
Summary of Analytical Results for Groundwater and Seep Water for TAH and TAqH Determination
September 2020 through September 2022
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

		Analytical Results[1,2] (micrograms per liter)											
Monitoring Well	**Sample Date**	**Benzene**	**Ethylbenzene**	**Toluene**	**Total Xylenes**	**Acenaphthene**	**Acenaphthylene**	**Anthracene**	**Fluorene**	**Phenanthrene**	**Pyrene**	**TAH**	**TAqH**
SEEP-091320	9/13/2020	728	274	695	2641	<0.0265	<0.0265	<0.0265	0.275	0.121	<0.0265	**4,338**	**4,338**
SEEP-070221	7/2/2021	2.72	0.36	3.91	16.7	<0.0240	<0.0240	<0.0240	<0.0240	<0.0481	0.0191	**23.7**	**23.7**
SEEP-092521	9/25/2021	46.7	10.3	8.85	23.5	<0.0240	<0.0240	<0.0240	0.0169	<0.0481	<0.0240	**89.4**	**89.4**
SEEP-091422	9/14/2022	16.1	10.2	2.52	32.6	<0.0245	<0.0245	<0.0245	<0.0245	<0.0490	<0.0245	**61.4**	**61.4**
ADEC Water Quality Standards for Petroleum Hydrocarbons, Oils and Grease, for Marine Water Uses[3]												**10**	**15**

NOTES:
Results in **bold** denote concentrations exceeding applicable surface water cleanup levels.
< denotes analyte not detected at or exceeding the laboratory reporting limit listed.
-- denotes sample not analyzed or result not reported for this constituent.
[1]BTEX analyzed by EPA Method 8260C (groundwater), or EPA Method 624 or EPA Method 8021B (seep water).
[2]Polynuclear aromatic hydrocarbons analyzed by EPA Method 8270 D SIM.
[2]Field quality assurance/quality control duplicate sample.
[3]Levels established in Water Quality Standards for Designated Uses, Petroleum Hydrocarbons, Oils and Grease for Marine Water Uses for Growth and Propagation of Fish, Shellfish, other Aquatic Life, and Wildlife, in Section 020 of Chapter 70 of Title 18 of the Alaska Administrative Code, as amended through March 25, 2020.

ADEC = Alaska Department of Environmental Conservation
BTEX = benzene, toluene, ethylbenzene, and total xylenes
EPA = U.S. Environmental Protection Agency
J = result is an estimate
TAH = total aromatic hydrocarbons
TAqH = total aqueous hydrocarbons

APPENDIX A
JUNE 2022 CARBON ASSESSMENT PHOTOGRAPHS

2022 GROUNDWATER MONITORING REPORT
Delta Western Dillingham
Dillingham, Alaska

Farallon PN: 1010-004

SITE PHOTOGRAPHS
2022 Groundwater Monitoring Report
Delta Western Dillingham
Dillingham, Alaska
Farallon PN: 1010-004

Photograph 1. Monitoring Well MW-10.

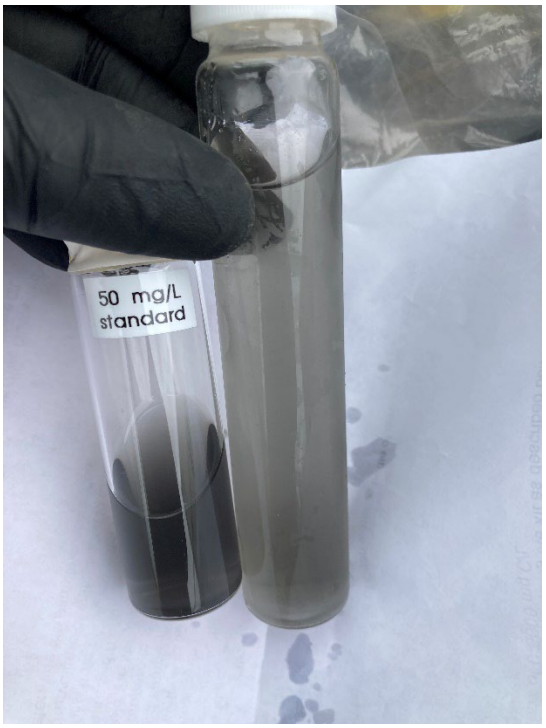
Photograph 2. Monitoring Well MW-11R.

Photograph 3. Monitoring Well MW-16.

Photograph 4. Monitoring Well MW-27.

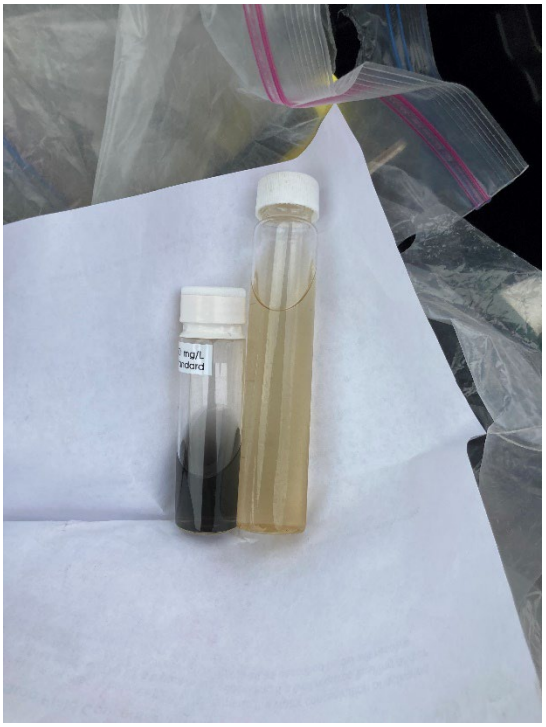
Photograph 5. Monitoring Well MW-29.

Photograph 6. Monitoring Well MW-30.



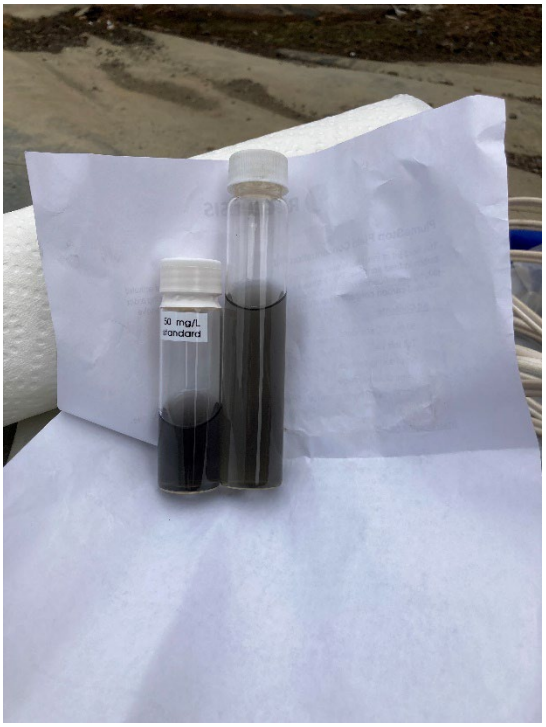
Photograph 1. Monitoring Well MW-10.

Photograph 2. Monitoring Well MW-11R.



Photograph 3. Monitoring Well MW-16.

Photograph 4. Monitoring Well MW-27.



Photograph 5. Monitoring Well MW-29.

Photograph 6. Monitoring Well MW-30.

APPENDIX B
LABORATORY ANALYTICAL REPORTS

2022 GROUNDWATER MONITORING REPORT
Delta Western Dillingham
Dillingham, Alaska

Farallon PN: 1010-004

Laboratory Report of Analysis

To: Delta Western-Anchorage
1201 Cornwall Ave Suite 105
Bellingham, WA 98225
(360)527-0241

Report Number: **1225683**

Client Project: **DW Dillingham GW Monitoring**

Dear Paul Grabau,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

_____

Justin Nelson Date
Project Manager
Justin.Nelson@sgs.com

SGS North America Inc. 200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Case Narrative

SGS Client: **Delta Western-Anchorage**
SGS Project: **1225683**
Project Name/Site: **DW Dillingham GW Monitoring**
Project Contact: **Paul Grabau**

Refer to sample receipt form for information on sample condition.

MW27-091422 (1225683015) PS

AK103- RRO was detect in the MB above the LOQ.

MW10-091422 (1225683017) PS

8270D SIM - PAH Surrogate recovery for fluoranthene-d10 does not meet QC criteria.

MW19-091422 (1225683018) PS

AK101/8021B - Surrogate recoveries for 4-bromofluorobenzene and 1,4-difluorobenzene do not meet QC criteria due to matrix interference.
AK103- RRO was detect in the MB above the LOQ.

MW23-091422 (1225683019) PS

8021B - Surrogate recovery for 1,4-difluorobenzene does not meet QC criteria due to matrix interference.
AK103- RRO was detect in the MB above the LOQ.

MW24-091422 (1225683020) PS

8021B - Surrogate recovery for 1,4-difluorobenzene does not meet QC criteria due to matrix interference.

MW11R-091422 (1225683021) PS

AK103- RRO was detect in the MB above the LOQ.

MW11R-091422-D (1225683022) PS

AK103- RRO was detect in the MB above the LOQ.

MW25-091522 (1225683025) PS

AK103- RRO was detect in the MB above the LOQ.

MW26-091522 (1225683026) PS

8021B - Surrogate recovery for 1,4-difluorobenzene does not meet QC criteria due to matrix interference.
AK103- RRO is detect in the MB above the LOQ.

MW29-091522 (1225683027) PS

8021B - Surrogate recovery for 1,4-difluorobenzene does not meet QC criteria due to matrix interference.
AK103- RRO is detect in the MB above the LOQ.

MW30-091522 (1225683028) PS

8021B - Surrogate recovery for 1,4-difluorobenzene does not meet QC criteria due to matrix interference.
AK103- RRO is detect in the MB above the LOQ.

MB for HBN 1843951 [XXX/47014] (1686604) MB

8270D SIM - PAH MB result for 1-methylnaphthalene is above 1/2 the LOQ.

MB for HBN 1844097 [XXX/47033] (1687258) MB

AK102 - DRO is detect in the MB greater than one-half the LOQ, but less than the LOQ.
AK103- RRO is detect in the MB above LOQ.

1225708002MS (1688137) MS

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Case Narrative

SGS Client: **Delta Western-Anchorage**
SGS Project: **1225683**
Project Name/Site: **DW Dillingham GW Monitoring**
Project Contact: **Paul Grabau**

4500NO3-F - Nitrate/Nitrite - MS recovery for total nitrate/nitrite is outside of QC criteria. Refer to LCS for accuracy requirements.

1225708002MSD (1688138) MSD

4500NO3-F - Nitrate/Nitrite - MSD recovery for total nitrate/nitrite is outside of QC criteria. Refer to LCS for accuracy requirements.

MB for HBN 1844324 [XXX/47057] (1688190) MB

AK103- RRO was detect in the MB above the LOQ.
AK102 - DRO is detect in the MB greater than one-half the LOQ, but less than the LOQ.

MB for HBN 1844363 [XXX/47067] (1688396) MB

AK102 - DRO is detect in the MB greater than one-half the LOQ, but less than the LOQ.
AK103- RRO is detect in the MB above the LOQ.

5756-4D(1689962MS) (1689970) MS

300.0 - Anions - MS recovery for chloride is outside of QC criteria. Refer to LCS for accuracy requirements.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

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Report of Manual Integrations

Laboratory ID	Client Sample ID	Analytical Batch	Analyte	Reason
8270D SIM LV (PAH)				
1225683017	MW10-091422	XMS13381	Acenaphthene	BLC
1686604	MB for HBN 1843951 [XXX/47014]	XMS13381	1-Methylnaphthalene	SP
SW8260D				
1225683028	MW30-091522	VMS22024	4-Isopropyltoluene	SP

Manual Integration Reason Code Descriptions

Code	Description
O	Original Chromatogram
M	Modified Chromatogram
SS	Skimmed surrogate
BLG	Closed baseline gap
RP	Reassign peak name
PIR	Pattern integration required
IT	Included tail
SP	Split peak
RSP	Removed split peak
FPS	Forced peak start/stop
BLC	Baseline correction
PNF	Peak not found by software

All DRO/RRO analysis are integrated per SOP.

Print Date: 10/13/2022 2:16:24PM

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
TNTC	Too Numerous To Count
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
Trip Blank	1225683001	09/10/2022	09/16/2022	Water (Surface, Eff., Ground)
MW21-091022	1225683002	09/10/2022	09/16/2022	Water (Surface, Eff., Ground)
MW9-091022	1225683003	09/10/2022	09/16/2022	Water (Surface, Eff., Ground)
TW2-091022	1225683004	09/10/2022	09/16/2022	Water (Surface, Eff., Ground)
B3MW-091122	1225683005	09/11/2022	09/16/2022	Water (Surface, Eff., Ground)
B1MW-091122	1225683006	09/11/2022	09/16/2022	Water (Surface, Eff., Ground)
B1MW-091122-D	1225683007	09/11/2022	09/16/2022	Water (Surface, Eff., Ground)
B2MW-091122	1225683008	09/11/2022	09/16/2022	Water (Surface, Eff., Ground)
MW13-091222	1225683009	09/12/2022	09/16/2022	Water (Surface, Eff., Ground)
MW12-091222	1225683010	09/12/2022	09/16/2022	Water (Surface, Eff., Ground)
MW5R-091222	1225683011	09/12/2022	09/16/2022	Water (Surface, Eff., Ground)
MW15-091322	1225683012	09/13/2022	09/16/2022	Water (Surface, Eff., Ground)
MW22-091322	1225683013	09/13/2022	09/16/2022	Water (Surface, Eff., Ground)
MW14-091322	1225683014	09/13/2022	09/16/2022	Water (Surface, Eff., Ground)
MW27-091422	1225683015	09/14/2022	09/16/2022	Water (Surface, Eff., Ground)
SEEP-091422	1225683016	09/14/2022	09/16/2022	Water (Surface, Eff., Ground)
MW10-091422	1225683017	09/14/2022	09/16/2022	Water (Surface, Eff., Ground)
MW19-091422	1225683018	09/14/2022	09/16/2022	Water (Surface, Eff., Ground)
MW23-091422	1225683019	09/14/2022	09/16/2022	Water (Surface, Eff., Ground)
MW24-091422	1225683020	09/14/2022	09/16/2022	Water (Surface, Eff., Ground)
MW11R-091422	1225683021	09/14/2022	09/16/2022	Water (Surface, Eff., Ground)
MW11R-091422-D	1225683022	09/14/2022	09/16/2022	Water (Surface, Eff., Ground)
MW16-091422	1225683023	09/14/2022	09/16/2022	Water (Surface, Eff., Ground)
MW16-091422-D	1225683024	09/14/2022	09/16/2022	Water (Surface, Eff., Ground)
MW25-091522	1225683025	09/15/2022	09/16/2022	Water (Surface, Eff., Ground)
MW26-091522	1225683026	09/15/2022	09/16/2022	Water (Surface, Eff., Ground)
MW29-091522	1225683027	09/15/2022	09/16/2022	Water (Surface, Eff., Ground)
MW30-091522	1225683028	09/15/2022	09/16/2022	Water (Surface, Eff., Ground)

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix

Method	Method Description
8270D SIM LV (PAH)	8270 PAH SIM GC/MS LV
AK101	AK101/8021 Combo.
SW8021B	AK101/8021 Combo.
SW8021B	BTEX 8021
AK102	DRO/RRO Low Volume Water
AK103	DRO/RRO Low Volume Water
EPA 300.0	Ion Chromatographic Analysis (W)
SM21 4500NO3-F	Nitrate/Nitrite Flow injection Pres.
SW8260D	Volatile Organic Compounds (W) FULL

Print Date: 10/13/2022 2:16:27PM

Detectable Results Summary

Client Sample ID: **MW21-091022**
Lab Sample ID: 1225683002

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	1.17	mg/L
	Residual Range Organics	1.30	mg/L
Volatile Fuels	Benzene	1.73	ug/L
	Gasoline Range Organics	0.0927J	mg/L
	o-Xylene	1.37	ug/L
	P & M -Xylene	1.10J	ug/L
	Xylenes (total)	2.47J	ug/L

Client Sample ID: **MW9-091022**
Lab Sample ID: 1225683003

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.417J	mg/L
	Residual Range Organics	0.814	mg/L
Volatile Fuels	Benzene	0.240J	ug/L

Client Sample ID: **TW2-091022**
Lab Sample ID: 1225683004

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.480J	mg/L
	Residual Range Organics	0.701	mg/L

Client Sample ID: **B3MW-091122**
Lab Sample ID: 1225683005

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.863	mg/L
	Residual Range Organics	1.42	mg/L
Volatile Fuels	Benzene	13.3	ug/L
	Ethylbenzene	2.54	ug/L
	Gasoline Range Organics	0.526	mg/L
	o-Xylene	2.15	ug/L
	P & M -Xylene	14.3	ug/L
	Toluene	2.45	ug/L
	Xylenes (total)	16.4	ug/L

Client Sample ID: **B1MW-091122**
Lab Sample ID: 1225683006

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	3.85	mg/L
	Residual Range Organics	1.83	mg/L
Volatile Fuels	Benzene	1620	ug/L
	Ethylbenzene	419	ug/L
	Gasoline Range Organics	13.7	mg/L
	o-Xylene	816	ug/L
	P & M -Xylene	2290	ug/L
	Toluene	1030	ug/L
	Xylenes (total)	3110	ug/L

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Detectable Results Summary

Client Sample ID: **B1MW-091122-D**
Lab Sample ID: 1225683007

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	4.18	mg/L
	Residual Range Organics	2.14	mg/L
Volatile Fuels	Benzene	1500	ug/L
	Ethylbenzene	448	ug/L
	Gasoline Range Organics	14.1	mg/L
	o-Xylene	874	ug/L
	P & M -Xylene	2450	ug/L
	Toluene	1110	ug/L
	Xylenes (total)	3320	ug/L

Client Sample ID: **B2MW-091122**
Lab Sample ID: 1225683008

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	1.04	mg/L
	Residual Range Organics	1.40	mg/L
Volatile Fuels	Benzene	141	ug/L
	Gasoline Range Organics	0.566	mg/L
	o-Xylene	34.3	ug/L
	P & M -Xylene	46.2	ug/L
	Toluene	1.66	ug/L
	Xylenes (total)	80.5	ug/L

Client Sample ID: **MW13-091222**
Lab Sample ID: 1225683009

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	13.1	mg/L
	Residual Range Organics	1.98	mg/L
Volatile Fuels	Benzene	29.3	ug/L
	Ethylbenzene	5.51	ug/L
	Gasoline Range Organics	0.511	mg/L
	o-Xylene	6.22	ug/L
	P & M -Xylene	13.4	ug/L
	Toluene	14.9	ug/L
	Xylenes (total)	19.6	ug/L

Client Sample ID: **MW12-091222**
Lab Sample ID: 1225683010

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	4.12	mg/L
	Residual Range Organics	2.36	mg/L
Volatile Fuels	Benzene	105	ug/L
	Ethylbenzene	12.4	ug/L
	Gasoline Range Organics	0.915	mg/L
	o-Xylene	99.7	ug/L
	P & M -Xylene	113	ug/L
	Toluene	5.50	ug/L
	Xylenes (total)	213	ug/L

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Detectable Results Summary

Client Sample ID: **MW5R-091222**
Lab Sample ID: 1225683011

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	2.64	mg/L
	Residual Range Organics	1.86	mg/L
Volatile Fuels	Benzene	31.3	ug/L
	Ethylbenzene	3.16	ug/L
	Gasoline Range Organics	0.177	mg/L
	o-Xylene	1.42	ug/L
	P & M -Xylene	3.47	ug/L
	Toluene	0.920J	ug/L
	Xylenes (total)	4.89	ug/L

Client Sample ID: **MW15-091322**
Lab Sample ID: 1225683012

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	1.84	mg/L
	Residual Range Organics	1.37	mg/L
Volatile Fuels	Benzene	1.79	ug/L
	o-Xylene	0.500J	ug/L

Client Sample ID: **MW22-091322**
Lab Sample ID: 1225683013

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.711	mg/L
	Residual Range Organics	1.16	mg/L
Volatile Fuels	Benzene	0.510	ug/L

Client Sample ID: **MW14-091322**
Lab Sample ID: 1225683014

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	3.54	mg/L
	Residual Range Organics	1.55	mg/L
Volatile Fuels	Benzene	5.38	ug/L
	Ethylbenzene	3.35	ug/L
	Gasoline Range Organics	0.248	mg/L
	o-Xylene	12.1	ug/L
	P & M -Xylene	18.8	ug/L
	Toluene	0.630J	ug/L
	Xylenes (total)	30.9	ug/L

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Detectable Results Summary

Client Sample ID: **MW27-091422**
Lab Sample ID: 1225683015

	Parameter	Result	Units
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	0.0367J	ug/L
	2-Methylnaphthalene	0.0496	ug/L
	Benzo(a)Anthracene	0.0158J	ug/L
	Fluoranthene	0.0159J	ug/L
	Naphthalene	0.0431J	ug/L
Semivolatile Organic Fuels	Diesel Range Organics	1.87	mg/L
	Residual Range Organics	1.34	mg/L
Volatile Fuels	Benzene	0.660	ug/L
Volatile GC/MS	Benzene	0.500	ug/L
Waters Department	Sulfate	0.296	mg/L
	Total Nitrate/Nitrite-N	0.323	mg/L

Client Sample ID: **SEEP-091422**
Lab Sample ID: 1225683016

	Parameter	Result	Units
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	0.0229J	ug/L
	2-Methylnaphthalene	0.0289J	ug/L
	Naphthalene	0.0364J	ug/L
Volatile Fuels	Benzene	16.1	ug/L
	Ethylbenzene	10.2	ug/L
	o-Xylene	2.22	ug/L
	P & M -Xylene	30.4	ug/L
	Toluene	2.52	ug/L
	Xylenes (total)	32.6	ug/L

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Detectable Results Summary

Client Sample ID: **MW10-091422**
Lab Sample ID: 1225683017

	Parameter	Result	Units
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	1.45	ug/L
	2-Methylnaphthalene	0.764	ug/L
	Acenaphthene	0.0901	ug/L
	Naphthalene	9.69	ug/L
Semivolatile Organic Fuels	Diesel Range Organics	4.72	mg/L
	Residual Range Organics	2.75	mg/L
Volatile Fuels	Benzene	45.6	ug/L
	Ethylbenzene	23.9	ug/L
	Gasoline Range Organics	0.297	mg/L
	o-Xylene	1.59	ug/L
	P & M -Xylene	29.2	ug/L
	Toluene	0.710J	ug/L
	Xylenes (total)	30.8	ug/L
Volatile GC/MS	1,2,4-Trimethylbenzene	34.9	ug/L
	1,2-Dichloroethane	0.330J	ug/L
	1,3,5-Trimethylbenzene	14.2	ug/L
	4-Isopropyltoluene	2.42	ug/L
	Benzene	48.8	ug/L
	Ethylbenzene	26.1	ug/L
	Isopropylbenzene (Cumene)	4.05	ug/L
	Naphthalene	24.1	ug/L
	n-Propylbenzene	2.60	ug/L
	o-Xylene	0.880J	ug/L
	P & M -Xylene	32.9	ug/L
	sec-Butylbenzene	0.420J	ug/L
	Toluene	0.820J	ug/L
	Xylenes (total)	33.7	ug/L
Waters Department	Sulfate	0.0650J	mg/L
	Total Nitrate/Nitrite-N	0.106J	mg/L

Client Sample ID: **MW19-091422**
Lab Sample ID: 1225683018

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	5.34	mg/L
	Residual Range Organics	1.47	mg/L
Volatile Fuels	Benzene	128	ug/L
	Ethylbenzene	154	ug/L
	Gasoline Range Organics	1.71	mg/L
	o-Xylene	3.21	ug/L
	P & M -Xylene	139	ug/L
	Toluene	3.25	ug/L
	Xylenes (total)	142	ug/L

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Detectable Results Summary

Client Sample ID: **MW23-091422**
Lab Sample ID: 1225683019

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	9.82	mg/L
	Residual Range Organics	2.49	mg/L
Volatile Fuels	Benzene	177	ug/L
	Ethylbenzene	34.9	ug/L
	Gasoline Range Organics	3.27	mg/L
	o-Xylene	62.1	ug/L
	P & M -Xylene	220	ug/L
	Toluene	1.64J	ug/L
	Xylenes (total)	282	ug/L

Client Sample ID: **MW24-091422**
Lab Sample ID: 1225683020

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	13.2	mg/L
	Residual Range Organics	4.00	mg/L
Volatile Fuels	Benzene	98.7	ug/L
	Ethylbenzene	124	ug/L
	Gasoline Range Organics	10.4	mg/L
	o-Xylene	11.8	ug/L
	P & M -Xylene	243	ug/L
	Toluene	14.2	ug/L
	Xylenes (total)	255	ug/L

Client Sample ID: **MW11R-091422**
Lab Sample ID: 1225683021

	Parameter	Result	Units
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	0.0408J	ug/L
	2-Methylnaphthalene	0.0353J	ug/L
	Naphthalene	0.0803J	ug/L
Semivolatile Organic Fuels	Diesel Range Organics	0.824	mg/L
	Residual Range Organics	0.726	mg/L
Volatile Fuels	Benzene	55.1	ug/L
	Ethylbenzene	1.08	ug/L
	Gasoline Range Organics	0.302	mg/L
	P & M -Xylene	1.99J	ug/L
	Xylenes (total)	2.93J	ug/L
Volatile GC/MS	1,2,4-Trimethylbenzene	0.370J	ug/L
	Benzene	51.7	ug/L
	Ethylbenzene	0.780J	ug/L
	P & M -Xylene	1.78J	ug/L
	Xylenes (total)	1.78J	ug/L
Waters Department	Sulfate	5.29	mg/L

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Detectable Results Summary

Client Sample ID: **MW11R-091422-D**
Lab Sample ID: 1225683022

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.754	mg/L
	Residual Range Organics	0.605	mg/L
Volatile Fuels	Benzene	53.5	ug/L
	Ethylbenzene	0.780J	ug/L
	Gasoline Range Organics	0.274	mg/L
	P & M -Xylene	2.05	ug/L
	Xylenes (total)	2.28J	ug/L

Client Sample ID: **MW16-091422**
Lab Sample ID: 1225683023

	Parameter	Result	Units
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	0.0231J	ug/L
	2-Methylnaphthalene	0.0240J	ug/L
	Anthracene	0.0178J	ug/L
	Naphthalene	0.0741J	ug/L
Volatile Fuels	Benzene	1.37	ug/L
	Gasoline Range Organics	0.0691J	mg/L
Volatile GC/MS	Benzene	1.45	ug/L
Waters Department	Sulfate	7.53	mg/L
	Total Nitrate/Nitrite-N	0.339	mg/L

Client Sample ID: **MW16-091422-D**
Lab Sample ID: 1225683024

	Parameter	Result	Units
Volatile Fuels	Benzene	1.61	ug/L
	Gasoline Range Organics	0.0864J	mg/L

Client Sample ID: **MW25-091522**
Lab Sample ID: 1225683025

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.921	mg/L
	Residual Range Organics	0.812	mg/L
Volatile Fuels	Benzene	1.45	ug/L
	Gasoline Range Organics	0.0706J	mg/L

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Detectable Results Summary

Client Sample ID: **MW26-091522**
Lab Sample ID: 1225683026

	Parameter	Result	Units
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	54.3	ug/L
	2-Methylnaphthalene	63.8	ug/L
	Acenaphthene	0.774	ug/L
	Fluorene	3.01	ug/L
	Naphthalene	69.9	ug/L
	Phenanthrene	1.25	ug/L
Semivolatile Organic Fuels	Diesel Range Organics	1.71	mg/L
	Residual Range Organics	0.769	mg/L
Volatile Fuels	Benzene	18.4	ug/L
	Ethylbenzene	130	ug/L
	Gasoline Range Organics	9.53	mg/L
	o-Xylene	6.10J	ug/L
	P & M -Xylene	777	ug/L
	Toluene	5.20J	ug/L
	Xylenes (total)	783	ug/L
Volatile GC/MS	1,2,4-Trimethylbenzene	220	ug/L
	1,3,5-Trimethylbenzene	65.7	ug/L
	4-Isopropyltoluene	16.4	ug/L
	Benzene	3.00	ug/L
	Ethylbenzene	107	ug/L
	Isopropylbenzene (Cumene)	11.6	ug/L
	Naphthalene	122	ug/L
	n-Propylbenzene	21.5	ug/L
	o-Xylene	1.90J	ug/L
	P & M -Xylene	703	ug/L
	sec-Butylbenzene	5.05	ug/L
	Toluene	3.65J	ug/L
	Xylenes (total)	705	ug/L
Waters Department	Sulfate	0.389	mg/L

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Detectable Results Summary

Client Sample ID: **MW29-091522**
Lab Sample ID: 1225683027

	Parameter	Result	Units
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	6.06	ug/L
	2-Methylnaphthalene	6.00	ug/L
	Acenaphthene	0.0580	ug/L
	Fluorene	0.0322J	ug/L
	Naphthalene	16.7	ug/L
Semivolatile Organic Fuels	Diesel Range Organics	1.96	mg/L
	Residual Range Organics	0.892	mg/L
Volatile Fuels	Benzene	476	ug/L
	Ethylbenzene	240	ug/L
	Gasoline Range Organics	6.35	mg/L
	o-Xylene	48.9	ug/L
	P & M -Xylene	468	ug/L
	Toluene	503	ug/L
	Xylenes (total)	517	ug/L
Volatile GC/MS	1,2,4-Trimethylbenzene	67.6	ug/L
	1,3,5-Trimethylbenzene	32.5	ug/L
	4-Isopropyltoluene	4.80J	ug/L
	Benzene	412	ug/L
	Ethylbenzene	235	ug/L
	Isopropylbenzene (Cumene)	9.25	ug/L
	Naphthalene	7.60	ug/L
	n-Propylbenzene	10.5	ug/L
	o-Xylene	46.7	ug/L
	P & M -Xylene	486	ug/L
	Toluene	443	ug/L
	Xylenes (total)	532	ug/L
Waters Department	Sulfate	0.0750J	mg/L
	Total Nitrate/Nitrite-N	0.184J	mg/L

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Detectable Results Summary

Client Sample ID: **MW30-091522**
Lab Sample ID: 1225683028

	Parameter	Result	Units
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	2.41	ug/L
	2-Methylnaphthalene	1.47	ug/L
	Acenaphthene	0.223	ug/L
	Anthracene	0.0147J	ug/L
	Fluoranthene	0.0241J	ug/L
	Fluorene	0.129	ug/L
	Naphthalene	6.75	ug/L
	Phenanthrene	0.0623J	ug/L
	Pyrene	0.0178J	ug/L
Semivolatile Organic Fuels	Diesel Range Organics	1.18	mg/L
	Residual Range Organics	0.763	mg/L
Volatile Fuels	Benzene	139	ug/L
	Ethylbenzene	65.1	ug/L
	Gasoline Range Organics	5.56	mg/L
	o-Xylene	12.8	ug/L
	P & M -Xylene	223	ug/L
	Toluene	20.4	ug/L
	Xylenes (total)	236	ug/L
Volatile GC/MS	1,2,4-Trimethylbenzene	182	ug/L
	1,3,5-Trimethylbenzene	69.2	ug/L
	4-Isopropyltoluene	7.98	ug/L
	Benzene	99.9	ug/L
	Ethylbenzene	63.8	ug/L
	Isopropylbenzene (Cumene)	8.06	ug/L
	Naphthalene	34.0	ug/L
	n-Propylbenzene	19.9	ug/L
	o-Xylene	10.1	ug/L
	P & M -Xylene	237	ug/L
	sec-Butylbenzene	3.38	ug/L
	tert-Butylbenzene	1.64J	ug/L
	Toluene	17.2	ug/L
	Xylenes (total)	247	ug/L
Waters Department	Sulfate	0.0850J	mg/L
	Total Nitrate/Nitrite-N	0.262	mg/L

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Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683001
Lab Project ID: 1225683

Collection Date: 09/10/22 08:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0450	mg/L	1		09/20/22 18:13
Surrogates								
4-Bromofluorobenzene (surr)	77.5		50-150		%	1		09/20/22 18:13

Batch Information

Analytical Batch: VFC16259
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/20/22 18:13
Container ID: 1225683001-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.250	U	0.500	0.150	ug/L	1		09/20/22 18:13
Ethylbenzene	0.500	U	1.00	0.500	ug/L	1		09/20/22 18:13
o-Xylene	0.500	U	1.00	0.500	ug/L	1		09/20/22 18:13
P & M -Xylene	1.00	U	2.00	0.900	ug/L	1		09/20/22 18:13
Toluene	0.500	U	1.00	0.500	ug/L	1		09/20/22 18:13
Xylenes (total)	1.50	U	3.00	1.40	ug/L	1		09/20/22 18:13
Surrogates								
1,4-Difluorobenzene (surr)	89.4		77-115		%	1		09/20/22 18:13

Batch Information

Analytical Batch: VFC16259
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/20/22 18:13
Container ID: 1225683001-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683001
Lab Project ID: 1225683

Collection Date: 09/10/22 08:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		09/22/22 16:36
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		09/22/22 16:36
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		09/22/22 16:36
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		09/22/22 16:36
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		09/22/22 16:36
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
1,2-Dichloroethane	0.250	U	0.500	0.200	ug/L	1		09/22/22 16:36
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		09/22/22 16:36
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		09/22/22 16:36
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		09/22/22 16:36
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		09/22/22 16:36
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		09/22/22 16:36
Benzene	0.200	U	0.400	0.120	ug/L	1		09/22/22 16:36
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		09/22/22 16:36
Bromoform	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
Bromomethane	3.00	U	6.00	3.00	ug/L	1		09/22/22 16:36
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		09/22/22 16:36
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		09/22/22 16:36
Chloroethane	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36

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Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683001
Lab Project ID: 1225683

Collection Date: 09/10/22 08:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
Chloromethane	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		09/22/22 16:36
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		09/22/22 16:36
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
Freon-113	5.00	U	10.0	3.10	ug/L	1		09/22/22 16:36
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
Methylene chloride	5.00	U	10.0	3.10	ug/L	1		09/22/22 16:36
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		09/22/22 16:36
Naphthalene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
o-Xylene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		09/22/22 16:36
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
Styrene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
Toluene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		09/22/22 16:36
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		09/22/22 16:36
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		09/22/22 16:36
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		09/22/22 16:36
Surrogates								
1,2-Dichloroethane-D4 (surr)	101		81-118		%	1		09/22/22 16:36
4-Bromofluorobenzene (surr)	98.6		85-114		%	1		09/22/22 16:36
Toluene-d8 (surr)	96.5		89-112		%	1		09/22/22 16:36

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Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683001
Lab Project ID: 1225683

Collection Date: 09/10/22 08:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS21998
Analytical Method: SW8260D
Analyst: AZL
Analytical Date/Time: 09/22/22 16:36
Container ID: 1225683001-D

Prep Batch: VXX39221
Prep Method: SW5030B
Prep Date/Time: 09/22/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **MW21-091022**

Client Sample ID: **MW21-091022**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683002
Lab Project ID: 1225683

Collection Date: 09/10/22 11:05
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1.17		0.577	0.192	mg/L	1		09/25/22 02:30
Surrogates								
5a Androstane (surr)	86.7		50-150		%	1		09/25/22 02:30

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/25/22 02:30
Container ID: 1225683002-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1.30		0.481	0.192	mg/L	1		09/25/22 02:30
Surrogates								
n-Triacontane-d62 (surr)	89.9		50-150		%	1		09/25/22 02:30

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/25/22 02:30
Container ID: 1225683002-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW21-091022**

Client Sample ID: **MW21-091022**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683002
Lab Project ID: 1225683

Collection Date: 09/10/22 11:05
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0927	J	0.100	0.0450	mg/L	1		09/20/22 19:08
Surrogates								
4-Bromofluorobenzene (surr)	102		50-150		%	1		09/20/22 19:08

Batch Information

Analytical Batch: VFC16259
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/20/22 19:08
Container ID: 1225683002-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	1.73		0.500	0.150	ug/L	1		09/20/22 19:08
Ethylbenzene	0.500	U	1.00	0.500	ug/L	1		09/20/22 19:08
o-Xylene	1.37		1.00	0.500	ug/L	1		09/20/22 19:08
P & M -Xylene	1.10	J	2.00	0.900	ug/L	1		09/20/22 19:08
Toluene	0.500	U	1.00	0.500	ug/L	1		09/20/22 19:08
Xylenes (total)	2.47	J	3.00	1.40	ug/L	1		09/20/22 19:08
Surrogates								
1,4-Difluorobenzene (surr)	78.2		77-115		%	1		09/20/22 19:08

Batch Information

Analytical Batch: VFC16259
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/20/22 19:08
Container ID: 1225683002-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **MW9-091022**

Client Sample ID: **MW9-091022**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683003
Lab Project ID: 1225683

Collection Date: 09/10/22 12:35
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.417	J	0.588	0.196	mg/L	1		09/25/22 02:40
Surrogates								
5a Androstane (surr)	74.7		50-150		%	1		09/25/22 02:40

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/25/22 02:40
Container ID: 1225683003-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.814		0.490	0.196	mg/L	1		09/25/22 02:40
Surrogates								
n-Triacontane-d62 (surr)	83.4		50-150		%	1		09/25/22 02:40

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/25/22 02:40
Container ID: 1225683003-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW9-091022**

Client Sample ID: **MW9-091022**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683003
Lab Project ID: 1225683

Collection Date: 09/10/22 12:35
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0450	mg/L	1		09/20/22 19:26
Surrogates								
4-Bromofluorobenzene (surr)	77.9		50-150		%	1		09/20/22 19:26

Batch Information

Analytical Batch: VFC16259
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/20/22 19:26
Container ID: 1225683003-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.240	J	0.500	0.150	ug/L	1		09/20/22 19:26
Ethylbenzene	0.500	U	1.00	0.500	ug/L	1		09/20/22 19:26
o-Xylene	0.500	U	1.00	0.500	ug/L	1		09/20/22 19:26
P & M -Xylene	1.00	U	2.00	0.900	ug/L	1		09/20/22 19:26
Toluene	0.500	U	1.00	0.500	ug/L	1		09/20/22 19:26
Xylenes (total)	1.50	U	3.00	1.40	ug/L	1		09/20/22 19:26
Surrogates								
1,4-Difluorobenzene (surr)	88.4		77-115		%	1		09/20/22 19:26

Batch Information

Analytical Batch: VFC16259
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/20/22 19:26
Container ID: 1225683003-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **TW2-091022**

Client Sample ID: **TW2-091022**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683004
Lab Project ID: 1225683

Collection Date: 09/10/22 15:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.480	J	0.588	0.196	mg/L	1		09/25/22 02:50
Surrogates								
5a Androstane (surr)	81.3		50-150		%	1		09/25/22 02:50

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/25/22 02:50
Container ID: 1225683004-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.701		0.490	0.196	mg/L	1		09/25/22 02:50
Surrogates								
n-Triacontane-d62 (surr)	89.1		50-150		%	1		09/25/22 02:50

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/25/22 02:50
Container ID: 1225683004-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

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Results of **TW2-091022**

Client Sample ID: **TW2-091022**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683004
Lab Project ID: 1225683

Collection Date: 09/10/22 15:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0450	mg/L	1		09/20/22 19:45
Surrogates								
4-Bromofluorobenzene (surr)	78.8		50-150		%	1		09/20/22 19:45

Batch Information

Analytical Batch: VFC16259
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/20/22 19:45
Container ID: 1225683004-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.250	U	0.500	0.150	ug/L	1		09/20/22 19:45
Ethylbenzene	0.500	U	1.00	0.500	ug/L	1		09/20/22 19:45
o-Xylene	0.500	U	1.00	0.500	ug/L	1		09/20/22 19:45
P & M -Xylene	1.00	U	2.00	0.900	ug/L	1		09/20/22 19:45
Toluene	0.500	U	1.00	0.500	ug/L	1		09/20/22 19:45
Xylenes (total)	1.50	U	3.00	1.40	ug/L	1		09/20/22 19:45
Surrogates								
1,4-Difluorobenzene (surr)	89.1		77-115		%	1		09/20/22 19:45

Batch Information

Analytical Batch: VFC16259
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/20/22 19:45
Container ID: 1225683004-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **B3MW-091122**

Client Sample ID: **B3MW-091122**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683005
Lab Project ID: 1225683

Collection Date: 09/11/22 13:40
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.863		0.600	0.200	mg/L	1		09/25/22 02:59
Surrogates								
5a Androstane (surr)	74.1		50-150		%	1		09/25/22 02:59

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/25/22 02:59
Container ID: 1225683005-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1.42		0.500	0.200	mg/L	1		09/25/22 02:59
Surrogates								
n-Triacontane-d62 (surr)	80		50-150		%	1		09/25/22 02:59

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/25/22 02:59
Container ID: 1225683005-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

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Results of **B3MW-091122**

Client Sample ID: **B3MW-091122**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683005
Lab Project ID: 1225683

Collection Date: 09/11/22 13:40
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.526		0.100	0.0450	mg/L	1		09/20/22 20:03
Surrogates								
4-Bromofluorobenzene (surr)	103		50-150		%	1		09/20/22 20:03

Batch Information

Analytical Batch: VFC16259
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/20/22 20:03
Container ID: 1225683005-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	13.3		0.500	0.150	ug/L	1		09/20/22 20:03
Ethylbenzene	2.54		1.00	0.500	ug/L	1		09/20/22 20:03
o-Xylene	2.15		1.00	0.500	ug/L	1		09/20/22 20:03
P & M -Xylene	14.3		2.00	0.900	ug/L	1		09/20/22 20:03
Toluene	2.45		1.00	0.500	ug/L	1		09/20/22 20:03
Xylenes (total)	16.4		3.00	1.40	ug/L	1		09/20/22 20:03
Surrogates								
1,4-Difluorobenzene (surr)	104		77-115		%	1		09/20/22 20:03

Batch Information

Analytical Batch: VFC16259
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/20/22 20:03
Container ID: 1225683005-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **B1MW-091122**

Client Sample ID: **B1MW-091122**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683006
Lab Project ID: 1225683

Collection Date: 09/11/22 15:35
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	3.85		0.577	0.192	mg/L	1		09/25/22 03:09
Surrogates								
5a Androstane (surr)	77.6		50-150		%	1		09/25/22 03:09

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/25/22 03:09
Container ID: 1225683006-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1.83		0.481	0.192	mg/L	1		09/25/22 03:09
Surrogates								
n-Triacontane-d62 (surr)	82.7		50-150		%	1		09/25/22 03:09

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/25/22 03:09
Container ID: 1225683006-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **B1MW-091122**

Client Sample ID: **B1MW-091122**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683006
Lab Project ID: 1225683

Collection Date: 09/11/22 15:35
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	13.7		1.00	0.450	mg/L	10		09/21/22 19:15
Surrogates								
4-Bromofluorobenzene (surr)	107		50-150		%	10		09/21/22 19:15

Batch Information

Analytical Batch: VFC16262
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/21/22 19:15
Container ID: 1225683006-B

Prep Batch: VXX39212
Prep Method: SW5030B
Prep Date/Time: 09/21/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	1620		5.00	1.50	ug/L	10		09/21/22 19:15
Ethylbenzene	419		10.0	5.00	ug/L	10		09/21/22 19:15
o-Xylene	816		10.0	5.00	ug/L	10		09/21/22 19:15
P & M -Xylene	2290		20.0	9.00	ug/L	10		09/21/22 19:15
Toluene	1030		10.0	5.00	ug/L	10		09/21/22 19:15
Xylenes (total)	3110		30.0	14.0	ug/L	10		09/21/22 19:15
Surrogates								
1,4-Difluorobenzene (surr)	112		77-115		%	10		09/21/22 19:15

Batch Information

Analytical Batch: VFC16262
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/21/22 19:15
Container ID: 1225683006-B

Prep Batch: VXX39212
Prep Method: SW5030B
Prep Date/Time: 09/21/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **B1MW-091122-D**

Client Sample ID: **B1MW-091122-D**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683007
Lab Project ID: 1225683

Collection Date: 09/11/22 15:35
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	4.18		0.588	0.196	mg/L	1		09/25/22 03:19
Surrogates								
5a Androstane (surr)	80.3		50-150		%	1		09/25/22 03:19

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/25/22 03:19
Container ID: 1225683007-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	2.14		0.490	0.196	mg/L	1		09/25/22 03:19
Surrogates								
n-Triacontane-d62 (surr)	86.8		50-150		%	1		09/25/22 03:19

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/25/22 03:19
Container ID: 1225683007-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **B1MW-091122-D**

Client Sample ID: **B1MW-091122-D**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683007
Lab Project ID: 1225683

Collection Date: 09/11/22 15:35
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	14.1		1.00	0.450	mg/L	10		09/21/22 19:33
Surrogates								
4-Bromofluorobenzene (surr)	104		50-150		%	10		09/21/22 19:33

Batch Information

Analytical Batch: VFC16262
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/21/22 19:33
Container ID: 1225683007-B

Prep Batch: VXX39212
Prep Method: SW5030B
Prep Date/Time: 09/21/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	1500		5.00	1.50	ug/L	10		09/21/22 19:33
Ethylbenzene	448		10.0	5.00	ug/L	10		09/21/22 19:33
o-Xylene	874		10.0	5.00	ug/L	10		09/21/22 19:33
P & M -Xylene	2450		20.0	9.00	ug/L	10		09/21/22 19:33
Toluene	1110		10.0	5.00	ug/L	10		09/21/22 19:33
Xylenes (total)	3320		30.0	14.0	ug/L	10		09/21/22 19:33
Surrogates								
1,4-Difluorobenzene (surr)	110		77-115		%	10		09/21/22 19:33

Batch Information

Analytical Batch: VFC16262
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/21/22 19:33
Container ID: 1225683007-B

Prep Batch: VXX39212
Prep Method: SW5030B
Prep Date/Time: 09/21/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **B2MW-091122**

Client Sample ID: **B2MW-091122**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683008
Lab Project ID: 1225683

Collection Date: 09/11/22 17:55
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1.04		0.652	0.217	mg/L	1		09/25/22 03:29
Surrogates								
5a Androstane (surr)	85.8		50-150		%	1		09/25/22 03:29

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/25/22 03:29
Container ID: 1225683008-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 230 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1.40		0.543	0.217	mg/L	1		09/25/22 03:29
Surrogates								
n-Triacontane-d62 (surr)	93.6		50-150		%	1		09/25/22 03:29

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/25/22 03:29
Container ID: 1225683008-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 230 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **B2MW-091122**

Client Sample ID: **B2MW-091122**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683008
Lab Project ID: 1225683

Collection Date: 09/11/22 17:55
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.566		0.100	0.0450	mg/L	1		09/20/22 20:57
Surrogates								
4-Bromofluorobenzene (surr)	90.6		50-150		%	1		09/20/22 20:57

Batch Information

Analytical Batch: VFC16259
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/20/22 20:57
Container ID: 1225683008-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	141		0.500	0.150	ug/L	1		09/20/22 20:57
Ethylbenzene	0.500 U		1.00	0.500	ug/L	1		09/22/22 21:49
o-Xylene	34.3		1.00	0.500	ug/L	1		09/20/22 20:57
P & M -Xylene	46.2		2.00	0.900	ug/L	1		09/20/22 20:57
Toluene	1.66		1.00	0.500	ug/L	1		09/22/22 21:49
Xylenes (total)	80.5		3.00	1.40	ug/L	1		09/20/22 20:57
Surrogates								
1,4-Difluorobenzene (surr)	110		77-115		%	1		09/20/22 20:57

Batch Information

Analytical Batch: VFC16259
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/20/22 20:57
Container ID: 1225683008-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Analytical Batch: VFC16263
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/22/22 21:49
Container ID: 1225683008-B

Prep Batch: VXX39217
Prep Method: SW5030B
Prep Date/Time: 09/22/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **MW13-091222**

Client Sample ID: **MW13-091222**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683009
Lab Project ID: 1225683

Collection Date: 09/12/22 12:05
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	13.1		0.588	0.196	mg/L	1		09/25/22 03:39
Surrogates								
5a Androstane (surr)	92.1		50-150		%	1		09/25/22 03:39

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/25/22 03:39
Container ID: 1225683009-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1.98		0.490	0.196	mg/L	1		09/25/22 03:39
Surrogates								
n-Triacontane-d62 (surr)	100		50-150		%	1		09/25/22 03:39

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/25/22 03:39
Container ID: 1225683009-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

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Results of **MW13-091222**

Client Sample ID: **MW13-091222**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683009
Lab Project ID: 1225683

Collection Date: 09/12/22 12:05
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.511		0.100	0.0450	mg/L	1		09/20/22 21:16
Surrogates								
4-Bromofluorobenzene (surr)	76.6		50-150		%	1		09/20/22 21:16

Batch Information

Analytical Batch: VFC16259
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/20/22 21:16
Container ID: 1225683009-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	29.3		0.500	0.150	ug/L	1		09/20/22 21:16
Ethylbenzene	5.51		1.00	0.500	ug/L	1		09/20/22 21:16
o-Xylene	6.22		1.00	0.500	ug/L	1		09/20/22 21:16
P & M -Xylene	13.4		2.00	0.900	ug/L	1		09/20/22 21:16
Toluene	14.9		1.00	0.500	ug/L	1		09/20/22 21:16
Xylenes (total)	19.6		3.00	1.40	ug/L	1		09/20/22 21:16
Surrogates								
1,4-Difluorobenzene (surr)	83		77-115		%	1		09/20/22 21:16

Batch Information

Analytical Batch: VFC16259
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/20/22 21:16
Container ID: 1225683009-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **MW12-091222**

Client Sample ID: **MW12-091222**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683010
Lab Project ID: 1225683

Collection Date: 09/12/22 13:45
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	4.12		0.588	0.196	mg/L	1		09/25/22 03:49
Surrogates								
5a Androstane (surr)	83.7		50-150		%	1		09/25/22 03:49

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/25/22 03:49
Container ID: 1225683010-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	2.36		0.490	0.196	mg/L	1		09/25/22 03:49
Surrogates								
n-Triacontane-d62 (surr)	89.9		50-150		%	1		09/25/22 03:49

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/25/22 03:49
Container ID: 1225683010-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

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Results of **MW12-091222**

Client Sample ID: **MW12-091222**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683010
Lab Project ID: 1225683

Collection Date: 09/12/22 13:45
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.915		0.100	0.0450	mg/L	1		09/20/22 21:34
Surrogates								
4-Bromofluorobenzene (surr)	134		50-150		%	1		09/20/22 21:34

Batch Information

Analytical Batch: VFC16259
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/20/22 21:34
Container ID: 1225683010-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	105		0.500	0.150	ug/L	1		09/20/22 21:34
Ethylbenzene	12.4		1.00	0.500	ug/L	1		09/20/22 21:34
o-Xylene	99.7		1.00	0.500	ug/L	1		09/20/22 21:34
P & M -Xylene	113		2.00	0.900	ug/L	1		09/20/22 21:34
Toluene	5.50		1.00	0.500	ug/L	1		09/20/22 21:34
Xylenes (total)	213		3.00	1.40	ug/L	1		09/20/22 21:34
Surrogates								
1,4-Difluorobenzene (surr)	93.4		77-115		%	1		09/20/22 21:34

Batch Information

Analytical Batch: VFC16259
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/20/22 21:34
Container ID: 1225683010-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW5R-091222**

Client Sample ID: **MW5R-091222**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683011
Lab Project ID: 1225683

Collection Date: 09/12/22 16:55
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	2.64		0.577	0.192	mg/L	1		09/25/22 03:59
Surrogates								
5a Androstane (surr)	80.4		50-150		%	1		09/25/22 03:59

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/25/22 03:59
Container ID: 1225683011-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1.86		0.481	0.192	mg/L	1		09/25/22 03:59
Surrogates								
n-Triacontane-d62 (surr)	85.9		50-150		%	1		09/25/22 03:59

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/25/22 03:59
Container ID: 1225683011-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

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Results of **MW5R-091222**

Client Sample ID: **MW5R-091222**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683011
Lab Project ID: 1225683

Collection Date: 09/12/22 16:55
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.177		0.100	0.0450	mg/L	1		09/20/22 21:52
Surrogates								
4-Bromofluorobenzene (surr)	94.1		50-150		%	1		09/20/22 21:52

Batch Information

Analytical Batch: VFC16259
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/20/22 21:52
Container ID: 1225683011-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	31.3		0.500	0.150	ug/L	1		09/20/22 21:52
Ethylbenzene	3.16		1.00	0.500	ug/L	1		09/20/22 21:52
o-Xylene	1.42		1.00	0.500	ug/L	1		09/20/22 21:52
P & M -Xylene	3.47		2.00	0.900	ug/L	1		09/20/22 21:52
Toluene	0.920	J	1.00	0.500	ug/L	1		09/20/22 21:52
Xylenes (total)	4.89		3.00	1.40	ug/L	1		09/20/22 21:52
Surrogates								
1,4-Difluorobenzene (surr)	103		77-115		%	1		09/20/22 21:52

Batch Information

Analytical Batch: VFC16259
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/20/22 21:52
Container ID: 1225683011-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **MW15-091322**

Client Sample ID: **MW15-091322**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683012
Lab Project ID: 1225683

Collection Date: 09/13/22 10:30
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1.84		0.577	0.192	mg/L	1		09/25/22 04:09
Surrogates								
5a Androstane (surr)	89.1		50-150		%	1		09/25/22 04:09

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/25/22 04:09
Container ID: 1225683012-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1.37		0.481	0.192	mg/L	1		09/25/22 04:09
Surrogates								
n-Triacontane-d62 (surr)	95.2		50-150		%	1		09/25/22 04:09

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/25/22 04:09
Container ID: 1225683012-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW15-091322**

Client Sample ID: **MW15-091322**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683012
Lab Project ID: 1225683

Collection Date: 09/13/22 10:30
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0450	mg/L	1		09/20/22 22:10
Surrogates								
4-Bromofluorobenzene (surr)	98.6		50-150		%	1		09/20/22 22:10

Batch Information

Analytical Batch: VFC16259
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/20/22 22:10
Container ID: 1225683012-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	1.79		0.500	0.150	ug/L	1		09/20/22 22:10
Ethylbenzene	0.500	U	1.00	0.500	ug/L	1		09/20/22 22:10
o-Xylene	0.500	J	1.00	0.500	ug/L	1		09/20/22 22:10
P & M -Xylene	1.00	U	2.00	0.900	ug/L	1		09/20/22 22:10
Toluene	0.500	U	1.00	0.500	ug/L	1		09/20/22 22:10
Xylenes (total)	1.50	U	3.00	1.40	ug/L	1		09/20/22 22:10
Surrogates								
1,4-Difluorobenzene (surr)	90.8		77-115		%	1		09/20/22 22:10

Batch Information

Analytical Batch: VFC16259
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/20/22 22:10
Container ID: 1225683012-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **MW22-091322**

Client Sample ID: **MW22-091322**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683013
Lab Project ID: 1225683

Collection Date: 09/13/22 12:40
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.711		0.577	0.192	mg/L	1		09/25/22 04:19
Surrogates								
5a Androstane (surr)	86.1		50-150		%	1		09/25/22 04:19

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/25/22 04:19
Container ID: 1225683013-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1.16		0.481	0.192	mg/L	1		09/25/22 04:19
Surrogates								
n-Triacontane-d62 (surr)	91.6		50-150		%	1		09/25/22 04:19

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/25/22 04:19
Container ID: 1225683013-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW22-091322**

Client Sample ID: **MW22-091322**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683013
Lab Project ID: 1225683

Collection Date: 09/13/22 12:40
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0450	mg/L	1		09/20/22 22:28
Surrogates								
4-Bromofluorobenzene (surr)	86.2		50-150		%	1		09/20/22 22:28

Batch Information

Analytical Batch: VFC16259
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/20/22 22:28
Container ID: 1225683013-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.510		0.500	0.150	ug/L	1		09/20/22 22:28
Ethylbenzene	0.500	U	1.00	0.500	ug/L	1		09/20/22 22:28
o-Xylene	0.500	U	1.00	0.500	ug/L	1		09/20/22 22:28
P & M -Xylene	1.00	U	2.00	0.900	ug/L	1		09/20/22 22:28
Toluene	0.500	U	1.00	0.500	ug/L	1		09/20/22 22:28
Xylenes (total)	1.50	U	3.00	1.40	ug/L	1		09/20/22 22:28
Surrogates								
1,4-Difluorobenzene (surr)	90.5		77-115		%	1		09/20/22 22:28

Batch Information

Analytical Batch: VFC16259
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/20/22 22:28
Container ID: 1225683013-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **MW14-091322**

Client Sample ID: **MW14-091322**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683014
Lab Project ID: 1225683

Collection Date: 09/13/22 14:25
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	3.54		0.577	0.192	mg/L	1		09/25/22 04:29
Surrogates								
5a Androstane (surr)	77.6		50-150		%	1		09/25/22 04:29

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/25/22 04:29
Container ID: 1225683014-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1.55		0.481	0.192	mg/L	1		09/25/22 04:29
Surrogates								
n-Triacontane-d62 (surr)	83.7		50-150		%	1		09/25/22 04:29

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/25/22 04:29
Container ID: 1225683014-D

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 09/22/22 16:48
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

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Results of **MW14-091322**

Client Sample ID: **MW14-091322**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683014
Lab Project ID: 1225683

Collection Date: 09/13/22 14:25
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.248		0.100	0.0450	mg/L	1		09/20/22 23:23
Surrogates								
4-Bromofluorobenzene (surr)	109		50-150		%	1		09/20/22 23:23

Batch Information

Analytical Batch: VFC16259
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/20/22 23:23
Container ID: 1225683014-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	5.38		0.500	0.150	ug/L	1		09/20/22 23:23
Ethylbenzene	3.35		1.00	0.500	ug/L	1		09/20/22 23:23
o-Xylene	12.1		1.00	0.500	ug/L	1		09/20/22 23:23
P & M -Xylene	18.8		2.00	0.900	ug/L	1		09/20/22 23:23
Toluene	0.630	J	1.00	0.500	ug/L	1		09/20/22 23:23
Xylenes (total)	30.9		3.00	1.40	ug/L	1		09/20/22 23:23
Surrogates								
1,4-Difluorobenzene (surr)	98		77-115		%	1		09/20/22 23:23

Batch Information

Analytical Batch: VFC16259
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/20/22 23:23
Container ID: 1225683014-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW27-091422**

Client Sample ID: **MW27-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683015
Lab Project ID: 1225683

Collection Date: 09/14/22 10:25
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0367	J	0.0490	0.0147	ug/L	1		09/27/22 22:22
2-Methylnaphthalene	0.0496		0.0490	0.0147	ug/L	1		09/27/22 22:22
Acenaphthene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:22
Acenaphthylene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:22
Anthracene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:22
Benzo(a)Anthracene	0.0158	J	0.0490	0.0147	ug/L	1		09/27/22 22:22
Benzo[a]pyrene	0.00980	U	0.0196	0.00608	ug/L	1		09/27/22 22:22
Benzo[b]Fluoranthene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:22
Benzo[g,h,i]perylene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:22
Benzo[k]fluoranthene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:22
Chrysene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:22
Dibenzo[a,h]anthracene	0.00980	U	0.0196	0.00608	ug/L	1		09/27/22 22:22
Fluoranthene	0.0159	J	0.0490	0.0147	ug/L	1		09/27/22 22:22
Fluorene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:22
Indeno[1,2,3-c,d] pyrene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:22
Naphthalene	0.0431	J	0.0980	0.0304	ug/L	1		09/27/22 22:22
Phenanthrene	0.0490	U	0.0980	0.0304	ug/L	1		09/27/22 22:22
Pyrene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:22
Surrogates								
2-Methylnaphthalene-d10 (surr)	74.2		42-86		%	1		09/27/22 22:22
Fluoranthene-d10 (surr)	74.9		50-97		%	1		09/27/22 22:22

Batch Information

Analytical Batch: XMS13381
Analytical Method: 8270D SIM LV (PAH)
Analyst: NGG
Analytical Date/Time: 09/27/22 22:22
Container ID: 1225683015-I

Prep Batch: XXX47014
Prep Method: SW3535A
Prep Date/Time: 09/20/22 10:30
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW27-091422**

Client Sample ID: **MW27-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683015
Lab Project ID: 1225683

Collection Date: 09/14/22 10:25
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1.87		0.577	0.192	mg/L	1		09/30/22 02:52
Surrogates								
5a Androstane (surr)	71.8		50-150		%	1		09/30/22 02:52

Batch Information

Analytical Batch: XFC16356
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/30/22 02:52
Container ID: 1225683015-G

Prep Batch: XXX47057
Prep Method: SW3520C
Prep Date/Time: 09/27/22 16:52
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1.34		0.481	0.192	mg/L	1		09/30/22 02:52
Surrogates								
n-Triacontane-d62 (surr)	75.5		50-150		%	1		09/30/22 02:52

Batch Information

Analytical Batch: XFC16356
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/30/22 02:52
Container ID: 1225683015-G

Prep Batch: XXX47057
Prep Method: SW3520C
Prep Date/Time: 09/27/22 16:52
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW27-091422**

Client Sample ID: **MW27-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683015
Lab Project ID: 1225683

Collection Date: 09/14/22 10:25
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0450	mg/L	1		09/20/22 23:41
Surrogates								
4-Bromofluorobenzene (surr)	78.6		50-150		%	1		09/20/22 23:41

Batch Information

Analytical Batch: VFC16259
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/20/22 23:41
Container ID: 1225683015-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.660		0.500	0.150	ug/L	1		09/20/22 23:41
Ethylbenzene	0.500	U	1.00	0.500	ug/L	1		09/20/22 23:41
o-Xylene	0.500	U	1.00	0.500	ug/L	1		09/20/22 23:41
P & M -Xylene	1.00	U	2.00	0.900	ug/L	1		09/20/22 23:41
Toluene	0.500	U	1.00	0.500	ug/L	1		09/20/22 23:41
Xylenes (total)	1.50	U	3.00	1.40	ug/L	1		09/20/22 23:41
Surrogates								
1,4-Difluorobenzene (surr)	88		77-115		%	1		09/20/22 23:41

Batch Information

Analytical Batch: VFC16259
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/20/22 23:41
Container ID: 1225683015-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **MW27-091422**

Client Sample ID: **MW27-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683015
Lab Project ID: 1225683

Collection Date: 09/14/22 10:25
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		09/28/22 21:35
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		09/28/22 21:35
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		09/28/22 21:35
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		09/28/22 21:35
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		09/28/22 21:35
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
1,2-Dichloroethane	0.250	U	0.500	0.200	ug/L	1		09/28/22 21:35
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		09/28/22 21:35
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		09/28/22 21:35
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		09/28/22 21:35
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		09/28/22 21:35
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		09/28/22 21:35
Benzene	0.500		0.400	0.120	ug/L	1		09/28/22 21:35
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		09/28/22 21:35
Bromoform	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
Bromomethane	3.00	U	6.00	3.00	ug/L	1		09/28/22 21:35
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		09/28/22 21:35
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		09/28/22 21:35
Chloroethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35

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Results of **MW27-091422**

Client Sample ID: **MW27-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683015
Lab Project ID: 1225683

Collection Date: 09/14/22 10:25
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
Chloromethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		09/28/22 21:35
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		09/28/22 21:35
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
Freon-113	5.00	U	10.0	3.10	ug/L	1		09/28/22 21:35
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
Methylene chloride	5.00	U	10.0	3.10	ug/L	1		09/28/22 21:35
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		09/28/22 21:35
Naphthalene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
o-Xylene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		09/28/22 21:35
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
Styrene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
Toluene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:35
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		09/28/22 21:35
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		09/28/22 21:35
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		09/28/22 21:35
Surrogates								
1,2-Dichloroethane-D4 (surr)	101		81-118		%	1		09/28/22 21:35
4-Bromofluorobenzene (surr)	95.5		85-114		%	1		09/28/22 21:35
Toluene-d8 (surr)	99.5		89-112		%	1		09/28/22 21:35

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW27-091422**

Client Sample ID: **MW27-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683015
Lab Project ID: 1225683

Collection Date: 09/14/22 10:25
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS22021
Analytical Method: SW8260D
Analyst: AZL
Analytical Date/Time: 09/28/22 21:35
Container ID: 1225683015-D

Prep Batch: VXX39262
Prep Method: SW5030B
Prep Date/Time: 09/28/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

J flagging is activated

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Results of **MW27-091422**

Client Sample ID: **MW27-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683015
Lab Project ID: 1225683

Collection Date: 09/14/22 10:25
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Sulfate	0.296		0.200	0.0500	mg/L	1		10/05/22 01:54

Batch Information

Analytical Batch: WIC6383
Analytical Method: EPA 300.0
Analyst: EBH
Analytical Date/Time: 10/05/22 01:54
Container ID: 1225683015-K

Prep Batch: WXX14499
Prep Method: METHOD
Prep Date/Time: 10/04/22 13:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.323		0.200	0.0500	mg/L	2		09/27/22 15:10

Batch Information

Analytical Batch: WFI3006
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 09/27/22 15:10
Container ID: 1225683015-K

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **SEEP-091422**

Client Sample ID: **SEEP-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683016
Lab Project ID: 1225683

Collection Date: 09/14/22 10:40
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0229	J	0.0490	0.0147	ug/L	1		09/27/22 22:43
2-Methylnaphthalene	0.0289	J	0.0490	0.0147	ug/L	1		09/27/22 22:43
Acenaphthene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:43
Acenaphthylene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:43
Anthracene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:43
Benzo(a)Anthracene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:43
Benzo[a]pyrene	0.00980	U	0.0196	0.00608	ug/L	1		09/27/22 22:43
Benzo[b]Fluoranthene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:43
Benzo[g,h,i]perylene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:43
Benzo[k]fluoranthene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:43
Chrysene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:43
Dibenzo[a,h]anthracene	0.00980	U	0.0196	0.00608	ug/L	1		09/27/22 22:43
Fluoranthene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:43
Fluorene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:43
Indeno[1,2,3-c,d] pyrene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:43
Naphthalene	0.0364	J	0.0980	0.0304	ug/L	1		09/27/22 22:43
Phenanthrene	0.0490	U	0.0980	0.0304	ug/L	1		09/27/22 22:43
Pyrene	0.0245	U	0.0490	0.0147	ug/L	1		09/27/22 22:43
Surrogates								
2-Methylnaphthalene-d10 (surr)	61.8		42-86		%	1		09/27/22 22:43
Fluoranthene-d10 (surr)	78.5		50-97		%	1		09/27/22 22:43

Batch Information

Analytical Batch: XMS13381
Analytical Method: 8270D SIM LV (PAH)
Analyst: NGG
Analytical Date/Time: 09/27/22 22:43
Container ID: 1225683016-D

Prep Batch: XXX47014
Prep Method: SW3535A
Prep Date/Time: 09/20/22 10:30
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **SEEP-091422**

Client Sample ID: **SEEP-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683016
Lab Project ID: 1225683

Collection Date: 09/14/22 10:40
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	16.1		0.500	0.150	ug/L	1		09/20/22 23:59
Ethylbenzene	10.2		1.00	0.500	ug/L	1		09/20/22 23:59
o-Xylene	2.22		1.00	0.500	ug/L	1		09/20/22 23:59
P & M -Xylene	30.4		2.00	0.900	ug/L	1		09/20/22 23:59
Toluene	2.52		1.00	0.500	ug/L	1		09/20/22 23:59
Xylenes (total)	32.6		3.00	1.40	ug/L	1		09/20/22 23:59
Surrogates								
1,4-Difluorobenzene (surr)	89.2		77-115		%	1		09/20/22 23:59

Batch Information

Analytical Batch: VFC16259
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/20/22 23:59
Container ID: 1225683016-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW10-091422**

Client Sample ID: **MW10-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683017
Lab Project ID: 1225683

Collection Date: 09/14/22 11:55
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	1.45		0.0510	0.0153	ug/L	1		09/27/22 23:03
2-Methylnaphthalene	0.764		0.0510	0.0153	ug/L	1		09/27/22 23:03
Acenaphthene	0.0901		0.0510	0.0153	ug/L	1		09/27/22 23:03
Acenaphthylene	0.0255	U	0.0510	0.0153	ug/L	1		09/27/22 23:03
Anthracene	0.0255	U	0.0510	0.0153	ug/L	1		09/27/22 23:03
Benzo(a)Anthracene	0.0255	U	0.0510	0.0153	ug/L	1		09/27/22 23:03
Benzo[a]pyrene	0.0102	U	0.0204	0.00633	ug/L	1		09/27/22 23:03
Benzo[b]Fluoranthene	0.0255	U	0.0510	0.0153	ug/L	1		09/27/22 23:03
Benzo[g,h,i]perylene	0.0255	U	0.0510	0.0153	ug/L	1		09/27/22 23:03
Benzo[k]fluoranthene	0.0255	U	0.0510	0.0153	ug/L	1		09/27/22 23:03
Chrysene	0.0255	U	0.0510	0.0153	ug/L	1		09/27/22 23:03
Dibenzo[a,h]anthracene	0.0102	U	0.0204	0.00633	ug/L	1		09/27/22 23:03
Fluoranthene	0.0255	U	0.0510	0.0153	ug/L	1		09/27/22 23:03
Fluorene	0.0255	U	0.0510	0.0153	ug/L	1		09/27/22 23:03
Indeno[1,2,3-c,d] pyrene	0.0255	U	0.0510	0.0153	ug/L	1		09/27/22 23:03
Naphthalene	9.69		0.102	0.0316	ug/L	1		09/27/22 23:03
Phenanthrene	0.0510	U	0.102	0.0316	ug/L	1		09/27/22 23:03
Pyrene	0.0255	U	0.0510	0.0153	ug/L	1		09/27/22 23:03
Surrogates								
2-Methylnaphthalene-d10 (surr)	61.1		42-86		%	1		09/27/22 23:03
Fluoranthene-d10 (surr)	45.8	*	50-97		%	1		09/27/22 23:03

Batch Information

Analytical Batch: XMS13381
Analytical Method: 8270D SIM LV (PAH)
Analyst: NGG
Analytical Date/Time: 09/27/22 23:03
Container ID: 1225683017-I

Prep Batch: XXX47014
Prep Method: SW3535A
Prep Date/Time: 09/20/22 10:30
Prep Initial Wt./Vol.: 245 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW10-091422**

Client Sample ID: **MW10-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683017
Lab Project ID: 1225683

Collection Date: 09/14/22 11:55
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	4.72		0.600	0.200	mg/L	1		09/30/22 03:02
Surrogates								
5a Androstane (surr)	69.9		50-150		%	1		09/30/22 03:02

Batch Information

Analytical Batch: XFC16356
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/30/22 03:02
Container ID: 1225683017-G

Prep Batch: XXX47057
Prep Method: SW3520C
Prep Date/Time: 09/27/22 16:52
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	2.75		0.500	0.200	mg/L	1		09/30/22 03:02
Surrogates								
n-Triacontane-d62 (surr)	69.7		50-150		%	1		09/30/22 03:02

Batch Information

Analytical Batch: XFC16356
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/30/22 03:02
Container ID: 1225683017-G

Prep Batch: XXX47057
Prep Method: SW3520C
Prep Date/Time: 09/27/22 16:52
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW10-091422**

Client Sample ID: **MW10-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683017
Lab Project ID: 1225683

Collection Date: 09/14/22 11:55
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.297		0.100	0.0450	mg/L	1		09/21/22 00:17
Surrogates								
4-Bromofluorobenzene (surr)	133		50-150		%	1		09/21/22 00:17

Batch Information

Analytical Batch: VFC16259
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/21/22 00:17
Container ID: 1225683017-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	45.6		0.500	0.150	ug/L	1		09/21/22 00:17
Ethylbenzene	23.9		1.00	0.500	ug/L	1		09/21/22 00:17
o-Xylene	1.59		1.00	0.500	ug/L	1		09/21/22 00:17
P & M -Xylene	29.2		2.00	0.900	ug/L	1		09/21/22 00:17
Toluene	0.710	J	1.00	0.500	ug/L	1		09/21/22 00:17
Xylenes (total)	30.8		3.00	1.40	ug/L	1		09/21/22 00:17
Surrogates								
1,4-Difluorobenzene (surr)	84.9		77-115		%	1		09/21/22 00:17

Batch Information

Analytical Batch: VFC16259
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/21/22 00:17
Container ID: 1225683017-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW10-091422**

Client Sample ID: **MW10-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683017
Lab Project ID: 1225683

Collection Date: 09/14/22 11:55
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		09/28/22 21:49
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		09/28/22 21:49
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		09/28/22 21:49
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
1,2,4-Trimethylbenzene	34.9		1.00	0.310	ug/L	1		09/28/22 21:49
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		09/28/22 21:49
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		09/28/22 21:49
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
1,2-Dichloroethane	0.330	J	0.500	0.200	ug/L	1		09/28/22 21:49
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
1,3,5-Trimethylbenzene	14.2		1.00	0.310	ug/L	1		09/28/22 21:49
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		09/28/22 21:49
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		09/28/22 21:49
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		09/28/22 21:49
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		09/28/22 21:49
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
4-Isopropyltoluene	2.42		1.00	0.310	ug/L	1		09/28/22 21:49
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		09/28/22 21:49
Benzene	48.8		0.400	0.120	ug/L	1		09/28/22 21:49
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		09/28/22 21:49
Bromoform	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
Bromomethane	3.00	U	6.00	3.00	ug/L	1		09/28/22 21:49
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		09/28/22 21:49
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		09/28/22 21:49
Chloroethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49

J flagging is activated

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Results of **MW10-091422**

Client Sample ID: **MW10-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683017
Lab Project ID: 1225683

Collection Date: 09/14/22 11:55
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
Chloromethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		09/28/22 21:49
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		09/28/22 21:49
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
Ethylbenzene	26.1		1.00	0.310	ug/L	1		09/28/22 21:49
Freon-113	5.00	U	10.0	3.10	ug/L	1		09/28/22 21:49
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
Isopropylbenzene (Cumene)	4.05		1.00	0.310	ug/L	1		09/28/22 21:49
Methylene chloride	5.00	U	10.0	3.10	ug/L	1		09/28/22 21:49
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		09/28/22 21:49
Naphthalene	24.1		1.00	0.310	ug/L	1		09/28/22 21:49
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
n-Propylbenzene	2.60		1.00	0.310	ug/L	1		09/28/22 21:49
o-Xylene	0.880	J	1.00	0.310	ug/L	1		09/28/22 21:49
P & M -Xylene	32.9		2.00	0.620	ug/L	1		09/28/22 21:49
sec-Butylbenzene	0.420	J	1.00	0.310	ug/L	1		09/28/22 21:49
Styrene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
Toluene	0.820	J	1.00	0.310	ug/L	1		09/28/22 21:49
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 21:49
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		09/28/22 21:49
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		09/28/22 21:49
Xylenes (total)	33.7		3.00	1.00	ug/L	1		09/28/22 21:49
Surrogates								
1,2-Dichloroethane-D4 (surr)	98.4		81-118		%	1		09/28/22 21:49
4-Bromofluorobenzene (surr)	95.2		85-114		%	1		09/28/22 21:49
Toluene-d8 (surr)	98.5		89-112		%	1		09/28/22 21:49

J flagging is activated

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Results of **MW10-091422**

Client Sample ID: **MW10-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683017
Lab Project ID: 1225683

Collection Date: 09/14/22 11:55
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS22021
Analytical Method: SW8260D
Analyst: AZL
Analytical Date/Time: 09/28/22 21:49
Container ID: 1225683017-D

Prep Batch: VXX39262
Prep Method: SW5030B
Prep Date/Time: 09/28/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

J flagging is activated

SGS North America Inc.
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Results of **MW10-091422**

Client Sample ID: **MW10-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683017
Lab Project ID: 1225683

Collection Date: 09/14/22 11:55
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Sulfate	0.0650	J	0.200	0.0500	mg/L	1		10/05/22 02:13

Batch Information

Analytical Batch: WIC6383
Analytical Method: EPA 300.0
Analyst: EBH
Analytical Date/Time: 10/05/22 02:13
Container ID: 1225683017-K

Prep Batch: WXX14499
Prep Method: METHOD
Prep Date/Time: 10/04/22 13:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.106	J	0.200	0.0500	mg/L	2		09/27/22 15:12

Batch Information

Analytical Batch: WFI3006
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 09/27/22 15:12
Container ID: 1225683017-K

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW19-091422**

Client Sample ID: **MW19-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683018
Lab Project ID: 1225683

Collection Date: 09/14/22 13:40
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	5.34		0.600	0.200	mg/L	1		09/30/22 03:12
Surrogates								
5a Androstane (surr)	69.7		50-150		%	1		09/30/22 03:12

Batch Information

Analytical Batch: XFC16356
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/30/22 03:12
Container ID: 1225683018-D

Prep Batch: XXX47057
Prep Method: SW3520C
Prep Date/Time: 09/27/22 16:52
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1.47		0.500	0.200	mg/L	1		09/30/22 03:12
Surrogates								
n-Triacontane-d62 (surr)	71		50-150		%	1		09/30/22 03:12

Batch Information

Analytical Batch: XFC16356
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/30/22 03:12
Container ID: 1225683018-D

Prep Batch: XXX47057
Prep Method: SW3520C
Prep Date/Time: 09/27/22 16:52
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW19-091422**

Client Sample ID: **MW19-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683018
Lab Project ID: 1225683

Collection Date: 09/14/22 13:40
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	1.71		0.100	0.0450	mg/L	1		09/21/22 00:35
Surrogates								
4-Bromofluorobenzene (surr)	494	*	50-150		%	1		09/21/22 00:35

Batch Information

Analytical Batch: VFC16259
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/21/22 00:35
Container ID: 1225683018-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	128		0.500	0.150	ug/L	1		09/21/22 00:35
Ethylbenzene	154		1.00	0.500	ug/L	1		09/21/22 00:35
o-Xylene	3.21		1.00	0.500	ug/L	1		09/21/22 00:35
P & M -Xylene	139		2.00	0.900	ug/L	1		09/21/22 00:35
Toluene	3.25		1.00	0.500	ug/L	1		09/21/22 00:35
Xylenes (total)	142		3.00	1.40	ug/L	1		09/21/22 00:35
Surrogates								
1,4-Difluorobenzene (surr)	128	*	77-115		%	1		09/21/22 00:35

Batch Information

Analytical Batch: VFC16259
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/21/22 00:35
Container ID: 1225683018-A

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 09/20/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **MW23-091422**

Client Sample ID: **MW23-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683019
Lab Project ID: 1225683

Collection Date: 09/14/22 15:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	9.82		0.577	0.192	mg/L	1		09/30/22 03:22
Surrogates								
5a Androstane (surr)	82.8		50-150		%	1		09/30/22 03:22

Batch Information

Analytical Batch: XFC16356
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/30/22 03:22
Container ID: 1225683019-D

Prep Batch: XXX47057
Prep Method: SW3520C
Prep Date/Time: 09/27/22 16:52
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	2.49		0.481	0.192	mg/L	1		09/30/22 03:22
Surrogates								
n-Triacontane-d62 (surr)	80.4		50-150		%	1		09/30/22 03:22

Batch Information

Analytical Batch: XFC16356
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/30/22 03:22
Container ID: 1225683019-D

Prep Batch: XXX47057
Prep Method: SW3520C
Prep Date/Time: 09/27/22 16:52
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW23-091422**

Client Sample ID: **MW23-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683019
Lab Project ID: 1225683

Collection Date: 09/14/22 15:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	3.27		0.200	0.0900	mg/L	2		09/21/22 20:28
Surrogates								
4-Bromofluorobenzene (surr)	110		50-150		%	2		09/21/22 20:28

Batch Information

Analytical Batch: VFC16262
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/21/22 20:28
Container ID: 1225683019-B

Prep Batch: VXX39212
Prep Method: SW5030B
Prep Date/Time: 09/21/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	177		1.00	0.300	ug/L	2		09/21/22 20:28
Ethylbenzene	34.9		2.00	1.00	ug/L	2		09/21/22 20:28
o-Xylene	62.1		2.00	1.00	ug/L	2		09/21/22 20:28
P & M -Xylene	220		4.00	1.80	ug/L	2		09/21/22 20:28
Toluene	1.64 J		2.00	1.00	ug/L	2		09/21/22 20:28
Xylenes (total)	282		6.00	2.80	ug/L	2		09/21/22 20:28
Surrogates								
1,4-Difluorobenzene (surr)	160	*	77-115		%	2		09/21/22 20:28

Batch Information

Analytical Batch: VFC16262
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/21/22 20:28
Container ID: 1225683019-B

Prep Batch: VXX39212
Prep Method: SW5030B
Prep Date/Time: 09/21/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW24-091422**

Client Sample ID: **MW24-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683020
Lab Project ID: 1225683

Collection Date: 09/14/22 16:45
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	13.2		0.600	0.200	mg/L	1		09/30/22 03:32
Surrogates								
5a Androstane (surr)	86.2		50-150		%	1		09/30/22 03:32

Batch Information

Analytical Batch: XFC16356
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/30/22 03:32
Container ID: 1225683020-D

Prep Batch: XXX47057
Prep Method: SW3520C
Prep Date/Time: 09/27/22 16:52
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	4.00		0.500	0.200	mg/L	1		09/30/22 03:32
Surrogates								
n-Triacontane-d62 (surr)	87.5		50-150		%	1		09/30/22 03:32

Batch Information

Analytical Batch: XFC16356
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/30/22 03:32
Container ID: 1225683020-D

Prep Batch: XXX47057
Prep Method: SW3520C
Prep Date/Time: 09/27/22 16:52
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW24-091422**

Client Sample ID: **MW24-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683020
Lab Project ID: 1225683

Collection Date: 09/14/22 16:45
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	10.4		1.00	0.450	mg/L	10		09/22/22 18:28
Surrogates								
4-Bromofluorobenzene (surr)	81.1		50-150		%	10		09/22/22 18:28

Batch Information

Analytical Batch: VFC16263
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/22/22 18:28
Container ID: 1225683020-B

Prep Batch: VXX39217
Prep Method: SW5030B
Prep Date/Time: 09/22/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	98.7		5.00	1.50	ug/L	10		09/22/22 18:28
Ethylbenzene	124		10.0	5.00	ug/L	10		09/22/22 18:28
o-Xylene	11.8		10.0	5.00	ug/L	10		09/22/22 18:28
P & M -Xylene	243		20.0	9.00	ug/L	10		09/22/22 18:28
Toluene	14.2		10.0	5.00	ug/L	10		09/22/22 18:28
Xylenes (total)	255		30.0	14.0	ug/L	10		09/22/22 18:28
Surrogates								
1,4-Difluorobenzene (surr)	159	*	77-115		%	10		09/22/22 18:28

Batch Information

Analytical Batch: VFC16263
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/22/22 18:28
Container ID: 1225683020-B

Prep Batch: VXX39217
Prep Method: SW5030B
Prep Date/Time: 09/22/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW11R-091422**

Client Sample ID: **MW11R-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683021
Lab Project ID: 1225683

Collection Date: 09/14/22 18:15
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0408	J	0.0481	0.0144	ug/L	1		10/04/22 14:35
2-Methylnaphthalene	0.0353	J	0.0481	0.0144	ug/L	1		10/04/22 14:35
Acenaphthene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 14:35
Acenaphthylene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 14:35
Anthracene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 14:35
Benzo(a)Anthracene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 14:35
Benzo[a]pyrene	0.00960	U	0.0192	0.00596	ug/L	1		10/04/22 14:35
Benzo[b]Fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 14:35
Benzo[g,h,i]perylene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 14:35
Benzo[k]fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 14:35
Chrysene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 14:35
Dibenzo[a,h]anthracene	0.00960	U	0.0192	0.00596	ug/L	1		10/04/22 14:35
Fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 14:35
Fluorene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 14:35
Indeno[1,2,3-c,d] pyrene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 14:35
Naphthalene	0.0803	J	0.0962	0.0298	ug/L	1		10/04/22 14:35
Phenanthrene	0.0481	U	0.0962	0.0298	ug/L	1		10/04/22 14:35
Pyrene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 14:35
Surrogates								
2-Methylnaphthalene-d10 (surr)	77.4		42-86		%	1		10/04/22 14:35
Fluoranthene-d10 (surr)	79		50-97		%	1		10/04/22 14:35

Batch Information

Analytical Batch: XMS13388
Analytical Method: 8270D SIM LV (PAH)
Analyst: NGG
Analytical Date/Time: 10/04/22 14:35
Container ID: 1225683021-I

Prep Batch: XXX47025
Prep Method: SW3535A
Prep Date/Time: 09/21/22 10:20
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW11R-091422**

Client Sample ID: **MW11R-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683021
Lab Project ID: 1225683

Collection Date: 09/14/22 18:15
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.824		0.577	0.192	mg/L	1		09/30/22 03:42
Surrogates								
5a Androstane (surr)	66.6		50-150		%	1		09/30/22 03:42

Batch Information

Analytical Batch: XFC16356
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/30/22 03:42
Container ID: 1225683021-G

Prep Batch: XXX47057
Prep Method: SW3520C
Prep Date/Time: 09/27/22 16:52
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.726		0.481	0.192	mg/L	1		09/30/22 03:42
Surrogates								
n-Triacontane-d62 (surr)	75.8		50-150		%	1		09/30/22 03:42

Batch Information

Analytical Batch: XFC16356
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/30/22 03:42
Container ID: 1225683021-G

Prep Batch: XXX47057
Prep Method: SW3520C
Prep Date/Time: 09/27/22 16:52
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

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Results of **MW11R-091422**

Client Sample ID: **MW11R-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683021
Lab Project ID: 1225683

Collection Date: 09/14/22 18:15
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.302		0.100	0.0450	mg/L	1		09/21/22 21:41
Surrogates								
4-Bromofluorobenzene (surr)	91.5		50-150		%	1		09/21/22 21:41

Batch Information

Analytical Batch: VFC16262
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/21/22 21:41
Container ID: 1225683021-A

Prep Batch: VXX39212
Prep Method: SW5030B
Prep Date/Time: 09/21/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	55.1		0.500	0.150	ug/L	1		09/21/22 21:41
Ethylbenzene	1.08		1.00	0.500	ug/L	1		09/21/22 21:41
o-Xylene	0.500 U		1.00	0.500	ug/L	1		09/22/22 22:25
P & M -Xylene	1.99 J		2.00	0.900	ug/L	1		09/22/22 22:25
Toluene	0.500 U		1.00	0.500	ug/L	1		09/21/22 21:41
Xylenes (total)	2.93 J		3.00	1.40	ug/L	1		09/21/22 21:41
Surrogates								
1,4-Difluorobenzene (surr)	98		77-115		%	1		09/21/22 21:41

Batch Information

Analytical Batch: VFC16262
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/21/22 21:41
Container ID: 1225683021-A

Prep Batch: VXX39212
Prep Method: SW5030B
Prep Date/Time: 09/21/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Analytical Batch: VFC16263
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/22/22 22:25
Container ID: 1225683021-B

Prep Batch: VXX39217
Prep Method: SW5030B
Prep Date/Time: 09/22/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW11R-091422**

Client Sample ID: **MW11R-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683021
Lab Project ID: 1225683

Collection Date: 09/14/22 18:15
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		09/28/22 22:04
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		09/28/22 22:04
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		09/28/22 22:04
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
1,2,4-Trimethylbenzene	0.370	J	1.00	0.310	ug/L	1		09/28/22 22:04
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		09/28/22 22:04
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		09/28/22 22:04
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
1,2-Dichloroethane	0.250	U	0.500	0.200	ug/L	1		09/28/22 22:04
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		09/28/22 22:04
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		09/28/22 22:04
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		09/28/22 22:04
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		09/28/22 22:04
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		09/28/22 22:04
Benzene	51.7		0.400	0.120	ug/L	1		09/28/22 22:04
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		09/28/22 22:04
Bromoform	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
Bromomethane	3.00	U	6.00	3.00	ug/L	1		09/28/22 22:04
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		09/28/22 22:04
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		09/28/22 22:04
Chloroethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04

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Results of **MW11R-091422**

Client Sample ID: **MW11R-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683021
Lab Project ID: 1225683

Collection Date: 09/14/22 18:15
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
Chloromethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		09/28/22 22:04
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		09/28/22 22:04
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
Ethylbenzene	0.780	J	1.00	0.310	ug/L	1		09/28/22 22:04
Freon-113	5.00	U	10.0	3.10	ug/L	1		09/28/22 22:04
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
Methylene chloride	5.00	U	10.0	3.10	ug/L	1		09/28/22 22:04
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		09/28/22 22:04
Naphthalene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
o-Xylene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
P & M -Xylene	1.78	J	2.00	0.620	ug/L	1		09/28/22 22:04
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
Styrene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
Toluene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:04
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		09/28/22 22:04
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		09/28/22 22:04
Xylenes (total)	1.78	J	3.00	1.00	ug/L	1		09/28/22 22:04
Surrogates								
1,2-Dichloroethane-D4 (surr)	98.7		81-118		%	1		09/28/22 22:04
4-Bromofluorobenzene (surr)	95.1		85-114		%	1		09/28/22 22:04
Toluene-d8 (surr)	99		89-112		%	1		09/28/22 22:04

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Results of **MW11R-091422**

Client Sample ID: **MW11R-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683021
Lab Project ID: 1225683

Collection Date: 09/14/22 18:15
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS22021
Analytical Method: SW8260D
Analyst: AZL
Analytical Date/Time: 09/28/22 22:04
Container ID: 1225683021-D

Prep Batch: VXX39262
Prep Method: SW5030B
Prep Date/Time: 09/28/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

J flagging is activated

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Results of **MW11R-091422**

Client Sample ID: **MW11R-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683021
Lab Project ID: 1225683

Collection Date: 09/14/22 18:15
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Sulfate	5.29		0.400	0.100	mg/L	2		10/04/22 15:27

Batch Information

Analytical Batch: WIC6383
Analytical Method: EPA 300.0
Analyst: EBH
Analytical Date/Time: 10/04/22 15:27
Container ID: 1225683021-K

Prep Batch: WXX14499
Prep Method: METHOD
Prep Date/Time: 10/04/22 13:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	2		09/27/22 15:14

Batch Information

Analytical Batch: WFI3006
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 09/27/22 15:14
Container ID: 1225683021-L

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW11R-091422-D**

Client Sample ID: **MW11R-091422-D**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683022
Lab Project ID: 1225683

Collection Date: 09/14/22 18:15
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.754		0.577	0.192	mg/L	1		09/30/22 03:52
Surrogates								
5a Androstane (surr)	79.3		50-150		%	1		09/30/22 03:52

Batch Information

Analytical Batch: XFC16356
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/30/22 03:52
Container ID: 1225683022-D

Prep Batch: XXX47057
Prep Method: SW3520C
Prep Date/Time: 09/27/22 16:52
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.605		0.481	0.192	mg/L	1		09/30/22 03:52
Surrogates								
n-Triacontane-d62 (surr)	84.7		50-150		%	1		09/30/22 03:52

Batch Information

Analytical Batch: XFC16356
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/30/22 03:52
Container ID: 1225683022-D

Prep Batch: XXX47057
Prep Method: SW3520C
Prep Date/Time: 09/27/22 16:52
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

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Results of **MW11R-091422-D**

Client Sample ID: **MW11R-091422-D**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683022
Lab Project ID: 1225683

Collection Date: 09/14/22 18:15
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.274		0.100	0.0450	mg/L	1		09/21/22 21:59
Surrogates								
4-Bromofluorobenzene (surr)	86.5		50-150		%	1		09/21/22 21:59

Batch Information

Analytical Batch: VFC16262
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/21/22 21:59
Container ID: 1225683022-A

Prep Batch: VXX39212
Prep Method: SW5030B
Prep Date/Time: 09/21/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	53.5		0.500	0.150	ug/L	1		09/21/22 21:59
Ethylbenzene	0.780 J		1.00	0.500	ug/L	1		09/21/22 21:59
o-Xylene	0.500 U		1.00	0.500	ug/L	1		09/21/22 21:59
P & M -Xylene	2.05		2.00	0.900	ug/L	1		09/21/22 21:59
Toluene	0.500 U		1.00	0.500	ug/L	1		09/21/22 21:59
Xylenes (total)	2.28 J		3.00	1.40	ug/L	1		09/21/22 21:59
Surrogates								
1,4-Difluorobenzene (surr)	96.2		77-115		%	1		09/21/22 21:59

Batch Information

Analytical Batch: VFC16262
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/21/22 21:59
Container ID: 1225683022-A

Prep Batch: VXX39212
Prep Method: SW5030B
Prep Date/Time: 09/21/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **MW16-091422**

Client Sample ID: **MW16-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683023
Lab Project ID: 1225683

Collection Date: 09/14/22 20:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0231	J	0.0490	0.0147	ug/L	1		10/04/22 14:55
2-Methylnaphthalene	0.0240	J	0.0490	0.0147	ug/L	1		10/04/22 14:55
Acenaphthene	0.0245	U	0.0490	0.0147	ug/L	1		10/04/22 14:55
Acenaphthylene	0.0245	U	0.0490	0.0147	ug/L	1		10/04/22 14:55
Anthracene	0.0178	J	0.0490	0.0147	ug/L	1		10/04/22 14:55
Benzo(a)Anthracene	0.0245	U	0.0490	0.0147	ug/L	1		10/04/22 14:55
Benzo[a]pyrene	0.00980	U	0.0196	0.00608	ug/L	1		10/04/22 14:55
Benzo[b]Fluoranthene	0.0245	U	0.0490	0.0147	ug/L	1		10/04/22 14:55
Benzo[g,h,i]perylene	0.0245	U	0.0490	0.0147	ug/L	1		10/04/22 14:55
Benzo[k]fluoranthene	0.0245	U	0.0490	0.0147	ug/L	1		10/04/22 14:55
Chrysene	0.0245	U	0.0490	0.0147	ug/L	1		10/04/22 14:55
Dibenzo[a,h]anthracene	0.00980	U	0.0196	0.00608	ug/L	1		10/04/22 14:55
Fluoranthene	0.0245	U	0.0490	0.0147	ug/L	1		10/04/22 14:55
Fluorene	0.0245	U	0.0490	0.0147	ug/L	1		10/04/22 14:55
Indeno[1,2,3-c,d] pyrene	0.0245	U	0.0490	0.0147	ug/L	1		10/04/22 14:55
Naphthalene	0.0741	J	0.0980	0.0304	ug/L	1		10/04/22 14:55
Phenanthrene	0.0490	U	0.0980	0.0304	ug/L	1		10/04/22 14:55
Pyrene	0.0245	U	0.0490	0.0147	ug/L	1		10/04/22 14:55
Surrogates								
2-Methylnaphthalene-d10 (surr)	73.8		42-86		%	1		10/04/22 14:55
Fluoranthene-d10 (surr)	69.9		50-97		%	1		10/04/22 14:55

Batch Information

Analytical Batch: XMS13388
Analytical Method: 8270D SIM LV (PAH)
Analyst: NGG
Analytical Date/Time: 10/04/22 14:55
Container ID: 1225683023-G

Prep Batch: XXX47025
Prep Method: SW3535A
Prep Date/Time: 09/21/22 10:20
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW16-091422**

Client Sample ID: **MW16-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683023
Lab Project ID: 1225683

Collection Date: 09/14/22 20:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0691	J	0.100	0.0450	mg/L	1		09/21/22 22:17
Surrogates								
4-Bromofluorobenzene (surr)	88		50-150		%	1		09/21/22 22:17

Batch Information

Analytical Batch: VFC16262
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/21/22 22:17
Container ID: 1225683023-A

Prep Batch: VXX39212
Prep Method: SW5030B
Prep Date/Time: 09/21/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	1.37		0.500	0.150	ug/L	1		09/21/22 22:17
Ethylbenzene	0.500	U	1.00	0.500	ug/L	1		09/21/22 22:17
o-Xylene	0.500	U	1.00	0.500	ug/L	1		09/21/22 22:17
P & M -Xylene	1.00	U	2.00	0.900	ug/L	1		09/21/22 22:17
Toluene	0.500	U	1.00	0.500	ug/L	1		09/21/22 22:17
Xylenes (total)	1.50	U	3.00	1.40	ug/L	1		09/21/22 22:17
Surrogates								
1,4-Difluorobenzene (surr)	80.6		77-115		%	1		09/21/22 22:17

Batch Information

Analytical Batch: VFC16262
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/21/22 22:17
Container ID: 1225683023-A

Prep Batch: VXX39212
Prep Method: SW5030B
Prep Date/Time: 09/21/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **MW16-091422**

Client Sample ID: **MW16-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683023
Lab Project ID: 1225683

Collection Date: 09/14/22 20:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		09/28/22 22:19
1,1,1-Trichloroethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
1,1,2,2-Tetrachloroethane	0.250	U	0.500	0.150	ug/L	1		09/28/22 22:19
1,1,2-Trichloroethane	0.200	U	0.400	0.120	ug/L	1		09/28/22 22:19
1,1-Dichloroethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
1,1-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
1,1-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
1,2,3-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
1,2,3-Trichloropropane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
1,2,4-Trichlorobenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
1,2,4-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
1,2-Dibromo-3-chloropropane	5.00	U	10.0	3.10	ug/L	1		09/28/22 22:19
1,2-Dibromoethane	0.0375	U	0.0750	0.0180	ug/L	1		09/28/22 22:19
1,2-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
1,2-Dichloroethane	0.250	U	0.500	0.200	ug/L	1		09/28/22 22:19
1,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
1,3,5-Trimethylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
1,3-Dichlorobenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
1,3-Dichloropropane	0.250	U	0.500	0.150	ug/L	1		09/28/22 22:19
1,4-Dichlorobenzene	0.250	U	0.500	0.150	ug/L	1		09/28/22 22:19
2,2-Dichloropropane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
2-Butanone (MEK)	5.00	U	10.0	3.10	ug/L	1		09/28/22 22:19
2-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
2-Hexanone	5.00	U	10.0	3.10	ug/L	1		09/28/22 22:19
4-Chlorotoluene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
4-Isopropyltoluene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
4-Methyl-2-pentanone (MIBK)	5.00	U	10.0	3.10	ug/L	1		09/28/22 22:19
Benzene	1.45		0.400	0.120	ug/L	1		09/28/22 22:19
Bromobenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
Bromochloromethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
Bromodichloromethane	0.250	U	0.500	0.150	ug/L	1		09/28/22 22:19
Bromoform	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
Bromomethane	3.00	U	6.00	3.00	ug/L	1		09/28/22 22:19
Carbon disulfide	5.00	U	10.0	3.10	ug/L	1		09/28/22 22:19
Carbon tetrachloride	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
Chlorobenzene	0.250	U	0.500	0.150	ug/L	1		09/28/22 22:19
Chloroethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19

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Results of **MW16-091422**

Client Sample ID: **MW16-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683023
Lab Project ID: 1225683

Collection Date: 09/14/22 20:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
Chloromethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
cis-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
cis-1,3-Dichloropropene	0.250	U	0.500	0.150	ug/L	1		09/28/22 22:19
Dibromochloromethane	0.250	U	0.500	0.150	ug/L	1		09/28/22 22:19
Dibromomethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
Dichlorodifluoromethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
Ethylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
Freon-113	5.00	U	10.0	3.10	ug/L	1		09/28/22 22:19
Hexachlorobutadiene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
Isopropylbenzene (Cumene)	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
Methylene chloride	5.00	U	10.0	3.10	ug/L	1		09/28/22 22:19
Methyl-t-butyl ether	5.00	U	10.0	3.10	ug/L	1		09/28/22 22:19
Naphthalene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
n-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
n-Propylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
o-Xylene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
P & M -Xylene	1.00	U	2.00	0.620	ug/L	1		09/28/22 22:19
sec-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
Styrene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
tert-Butylbenzene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
Tetrachloroethene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
Toluene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
trans-1,2-Dichloroethene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
trans-1,3-Dichloropropene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
Trichloroethene	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
Trichlorofluoromethane	0.500	U	1.00	0.310	ug/L	1		09/28/22 22:19
Vinyl acetate	5.00	U	10.0	3.10	ug/L	1		09/28/22 22:19
Vinyl chloride	0.0750	U	0.150	0.0500	ug/L	1		09/28/22 22:19
Xylenes (total)	1.50	U	3.00	1.00	ug/L	1		09/28/22 22:19
Surrogates								
1,2-Dichloroethane-D4 (surr)	97.5		81-118		%	1		09/28/22 22:19
4-Bromofluorobenzene (surr)	95.5		85-114		%	1		09/28/22 22:19
Toluene-d8 (surr)	99.3		89-112		%	1		09/28/22 22:19

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Results of **MW16-091422**

Client Sample ID: **MW16-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683023
Lab Project ID: 1225683

Collection Date: 09/14/22 20:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS22021
Analytical Method: SW8260D
Analyst: AZL
Analytical Date/Time: 09/28/22 22:19
Container ID: 1225683023-D

Prep Batch: VXX39262
Prep Method: SW5030B
Prep Date/Time: 09/28/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **MW16-091422**

Client Sample ID: **MW16-091422**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683023
Lab Project ID: 1225683

Collection Date: 09/14/22 20:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Sulfate	7.53		0.200	0.0500	mg/L	1		10/04/22 15:46

Batch Information

Analytical Batch: WIC6383
Analytical Method: EPA 300.0
Analyst: EBH
Analytical Date/Time: 10/04/22 15:46
Container ID: 1225683023-I

Prep Batch: WXX14499
Prep Method: METHOD
Prep Date/Time: 10/04/22 13:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.339		0.200	0.0500	mg/L	2		09/27/22 15:15

Batch Information

Analytical Batch: WFI3006
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 09/27/22 15:15
Container ID: 1225683023-J

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW16-091422-D**

Client Sample ID: **MW16-091422-D**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683024
Lab Project ID: 1225683

Collection Date: 09/14/22 20:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0864	J	0.100	0.0450	mg/L	1		09/22/22 00:23
Surrogates								
4-Bromofluorobenzene (surr)	94.4		50-150		%	1		09/22/22 00:23

Batch Information

Analytical Batch: VFC16262
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/22/22 00:23
Container ID: 1225683024-A

Prep Batch: VXX39212
Prep Method: SW5030B
Prep Date/Time: 09/21/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	1.61		0.500	0.150	ug/L	1		09/22/22 00:23
Ethylbenzene	0.500	U	1.00	0.500	ug/L	1		09/22/22 00:23
o-Xylene	0.500	U	1.00	0.500	ug/L	1		09/22/22 00:23
P & M -Xylene	1.00	U	2.00	0.900	ug/L	1		09/22/22 00:23
Toluene	0.500	U	1.00	0.500	ug/L	1		09/22/22 00:23
Xylenes (total)	1.50	U	3.00	1.40	ug/L	1		09/22/22 00:23
Surrogates								
1,4-Difluorobenzene (surr)	82.3		77-115		%	1		09/22/22 00:23

Batch Information

Analytical Batch: VFC16262
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/22/22 00:23
Container ID: 1225683024-A

Prep Batch: VXX39212
Prep Method: SW5030B
Prep Date/Time: 09/21/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW25-091522**

Client Sample ID: **MW25-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683025
Lab Project ID: 1225683

Collection Date: 09/15/22 10:20
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.921		0.577	0.192	mg/L	1		09/30/22 04:02
Surrogates								
5a Androstane (surr)	62.4		50-150		%	1		09/30/22 04:02

Batch Information

Analytical Batch: XFC16356
Analytical Method: AK102
Analyst: HMW
Analytical Date/Time: 09/30/22 04:02
Container ID: 1225683025-D

Prep Batch: XXX47057
Prep Method: SW3520C
Prep Date/Time: 09/27/22 16:52
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.812		0.481	0.192	mg/L	1		09/30/22 04:02
Surrogates								
n-Triacontane-d62 (surr)	66.1		50-150		%	1		09/30/22 04:02

Batch Information

Analytical Batch: XFC16356
Analytical Method: AK103
Analyst: HMW
Analytical Date/Time: 09/30/22 04:02
Container ID: 1225683025-D

Prep Batch: XXX47057
Prep Method: SW3520C
Prep Date/Time: 09/27/22 16:52
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW25-091522**

Client Sample ID: **MW25-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683025
Lab Project ID: 1225683

Collection Date: 09/15/22 10:20
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0706	J	0.100	0.0450	mg/L	1		09/22/22 00:41
Surrogates								
4-Bromofluorobenzene (surr)	87		50-150		%	1		09/22/22 00:41

Batch Information

Analytical Batch: VFC16262
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/22/22 00:41
Container ID: 1225683025-A

Prep Batch: VXX39212
Prep Method: SW5030B
Prep Date/Time: 09/21/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	1.45		0.500	0.150	ug/L	1		09/22/22 00:41
Ethylbenzene	0.500	U	1.00	0.500	ug/L	1		09/22/22 00:41
o-Xylene	0.500	U	1.00	0.500	ug/L	1		09/22/22 00:41
P & M -Xylene	1.00	U	2.00	0.900	ug/L	1		09/22/22 00:41
Toluene	0.500	U	1.00	0.500	ug/L	1		09/22/22 00:41
Xylenes (total)	1.50	U	3.00	1.40	ug/L	1		09/22/22 00:41
Surrogates								
1,4-Difluorobenzene (surr)	81.9		77-115		%	1		09/22/22 00:41

Batch Information

Analytical Batch: VFC16262
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/22/22 00:41
Container ID: 1225683025-A

Prep Batch: VXX39212
Prep Method: SW5030B
Prep Date/Time: 09/21/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/13/2022 2:16:30PM

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Results of **MW26-091522**

Client Sample ID: **MW26-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683026
Lab Project ID: 1225683

Collection Date: 09/15/22 12:10
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	54.3		0.481	0.144	ug/L	10		10/05/22 04:21
2-Methylnaphthalene	63.8		0.481	0.144	ug/L	10		10/05/22 04:21
Acenaphthene	0.774		0.0481	0.0144	ug/L	1		10/05/22 20:20
Acenaphthylene	0.0240	U	0.0481	0.0144	ug/L	1		10/05/22 20:20
Anthracene	0.0240	U	0.0481	0.0144	ug/L	1		10/05/22 20:20
Benzo(a)Anthracene	0.0240	U	0.0481	0.0144	ug/L	1		10/05/22 20:20
Benzo[a]pyrene	0.00960	U	0.0192	0.00596	ug/L	1		10/05/22 20:20
Benzo[b]Fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		10/05/22 20:20
Benzo[g,h,i]perylene	0.0240	U	0.0481	0.0144	ug/L	1		10/05/22 20:20
Benzo[k]fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		10/05/22 20:20
Chrysene	0.0240	U	0.0481	0.0144	ug/L	1		10/05/22 20:20
Dibenzo[a,h]anthracene	0.00960	U	0.0192	0.00596	ug/L	1		10/05/22 20:20
Fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		10/05/22 20:20
Fluorene	3.01		0.0481	0.0144	ug/L	1		10/05/22 20:20
Indeno[1,2,3-c,d] pyrene	0.0240	U	0.0481	0.0144	ug/L	1		10/05/22 20:20
Naphthalene	69.9		0.962	0.298	ug/L	10		10/05/22 04:21
Phenanthrene	1.25		0.0962	0.0298	ug/L	1		10/05/22 20:20
Pyrene	0.0240	U	0.0481	0.0144	ug/L	1		10/05/22 20:20
Surrogates								
2-Methylnaphthalene-d10 (surr)	76		42-86		%	10		10/05/22 04:21
Fluoranthene-d10 (surr)	80.3		50-97		%	10		10/05/22 04:21

Batch Information

Analytical Batch: XMS13389
Analytical Method: 8270D SIM LV (PAH)
Analyst: NGG
Analytical Date/Time: 10/05/22 04:21
Container ID: 1225683026-I

Prep Batch: XXX47025
Prep Method: SW3535A
Prep Date/Time: 09/21/22 10:20
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Analytical Batch: XMS13398
Analytical Method: 8270D SIM LV (PAH)
Analyst: NGG
Analytical Date/Time: 10/05/22 20:20
Container ID: 1225683026-I

Prep Batch: XXX47025
Prep Method: SW3535A
Prep Date/Time: 09/21/22 10:20
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

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Results of **MW26-091522**

Client Sample ID: **MW26-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683026
Lab Project ID: 1225683

Collection Date: 09/15/22 12:10
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1.71		0.588	0.196	mg/L	1		10/01/22 00:06
Surrogates								
5a Androstane (surr)	77.1		50-150		%	1		10/01/22 00:06

Batch Information

Analytical Batch: XFC16358
Analytical Method: AK102
Analyst: MAP
Analytical Date/Time: 10/01/22 00:06
Container ID: 1225683026-G

Prep Batch: XXX47067
Prep Method: SW3520C
Prep Date/Time: 09/28/22 15:35
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.769		0.490	0.196	mg/L	1		10/01/22 00:06
Surrogates								
n-Triacontane-d62 (surr)	95.9		50-150		%	1		10/01/22 00:06

Batch Information

Analytical Batch: XFC16358
Analytical Method: AK103
Analyst: MAP
Analytical Date/Time: 10/01/22 00:06
Container ID: 1225683026-G

Prep Batch: XXX47067
Prep Method: SW3520C
Prep Date/Time: 09/28/22 15:35
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW26-091522**

Client Sample ID: **MW26-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683026
Lab Project ID: 1225683

Collection Date: 09/15/22 12:10
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	9.53		1.00	0.450	mg/L	10		09/22/22 18:46
Surrogates								
4-Bromofluorobenzene (surr)	99.4		50-150		%	10		09/22/22 18:46

Batch Information

Analytical Batch: VFC16263
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/22/22 18:46
Container ID: 1225683026-B

Prep Batch: VXX39217
Prep Method: SW5030B
Prep Date/Time: 09/22/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	18.4		5.00	1.50	ug/L	10		09/22/22 18:46
Ethylbenzene	130		10.0	5.00	ug/L	10		09/22/22 18:46
o-Xylene	6.10 J		10.0	5.00	ug/L	10		09/22/22 18:46
P & M -Xylene	777		20.0	9.00	ug/L	10		09/22/22 18:46
Toluene	5.20 J		10.0	5.00	ug/L	10		09/22/22 18:46
Xylenes (total)	783		30.0	14.0	ug/L	10		09/22/22 18:46
Surrogates								
1,4-Difluorobenzene (surr)	150	*	77-115		%	10		09/22/22 18:46

Batch Information

Analytical Batch: VFC16263
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/22/22 18:46
Container ID: 1225683026-B

Prep Batch: VXX39217
Prep Method: SW5030B
Prep Date/Time: 09/22/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/13/2022 2:16:30PM

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Results of **MW26-091522**

Client Sample ID: **MW26-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683026
Lab Project ID: 1225683

Collection Date: 09/15/22 12:10
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	1.25	U	2.50	0.750	ug/L	5		09/29/22 21:49
1,1,1-Trichloroethane	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
1,1,2,2-Tetrachloroethane	1.25	U	2.50	0.750	ug/L	5		09/29/22 21:49
1,1,2-Trichloroethane	1.00	U	2.00	0.600	ug/L	5		09/29/22 21:49
1,1-Dichloroethane	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
1,1-Dichloroethene	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
1,1-Dichloropropene	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
1,2,3-Trichlorobenzene	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
1,2,3-Trichloropropane	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
1,2,4-Trichlorobenzene	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
1,2,4-Trimethylbenzene	220		5.00	1.55	ug/L	5		09/29/22 21:49
1,2-Dibromo-3-chloropropane	25.0	U	50.0	15.5	ug/L	5		09/29/22 21:49
1,2-Dibromoethane	0.188	U	0.375	0.0900	ug/L	5		09/29/22 21:49
1,2-Dichlorobenzene	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
1,2-Dichloroethane	1.25	U	2.50	1.00	ug/L	5		09/29/22 21:49
1,2-Dichloropropane	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
1,3,5-Trimethylbenzene	65.7		5.00	1.55	ug/L	5		09/29/22 21:49
1,3-Dichlorobenzene	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
1,3-Dichloropropane	1.25	U	2.50	0.750	ug/L	5		09/29/22 21:49
1,4-Dichlorobenzene	1.25	U	2.50	0.750	ug/L	5		09/29/22 21:49
2,2-Dichloropropane	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
2-Butanone (MEK)	25.0	U	50.0	15.5	ug/L	5		09/29/22 21:49
2-Chlorotoluene	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
2-Hexanone	25.0	U	50.0	15.5	ug/L	5		09/29/22 21:49
4-Chlorotoluene	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
4-Isopropyltoluene	16.4		5.00	1.55	ug/L	5		09/29/22 21:49
4-Methyl-2-pentanone (MIBK)	25.0	U	50.0	15.5	ug/L	5		09/29/22 21:49
Benzene	3.00		2.00	0.600	ug/L	5		09/29/22 21:49
Bromobenzene	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
Bromochloromethane	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
Bromodichloromethane	1.25	U	2.50	0.750	ug/L	5		09/29/22 21:49
Bromoform	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
Bromomethane	15.0	U	30.0	15.0	ug/L	5		09/29/22 21:49
Carbon disulfide	25.0	U	50.0	15.5	ug/L	5		09/29/22 21:49
Carbon tetrachloride	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
Chlorobenzene	1.25	U	2.50	0.750	ug/L	5		09/29/22 21:49
Chloroethane	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49

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Results of **MW26-091522**

Client Sample ID: **MW26-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683026
Lab Project ID: 1225683

Collection Date: 09/15/22 12:10
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
Chloromethane	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
cis-1,2-Dichloroethene	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
cis-1,3-Dichloropropene	1.25	U	2.50	0.750	ug/L	5		09/29/22 21:49
Dibromochloromethane	1.25	U	2.50	0.750	ug/L	5		09/29/22 21:49
Dibromomethane	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
Dichlorodifluoromethane	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
Ethylbenzene	107		5.00	1.55	ug/L	5		09/29/22 21:49
Freon-113	25.0	U	50.0	15.5	ug/L	5		09/29/22 21:49
Hexachlorobutadiene	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
Isopropylbenzene (Cumene)	11.6		5.00	1.55	ug/L	5		09/29/22 21:49
Methylene chloride	25.0	U	50.0	15.5	ug/L	5		09/29/22 21:49
Methyl-t-butyl ether	25.0	U	50.0	15.5	ug/L	5		09/29/22 21:49
Naphthalene	122		5.00	1.55	ug/L	5		09/29/22 21:49
n-Butylbenzene	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
n-Propylbenzene	21.5		5.00	1.55	ug/L	5		09/29/22 21:49
o-Xylene	1.90	J	5.00	1.55	ug/L	5		09/29/22 21:49
P & M -Xylene	703		10.0	3.10	ug/L	5		09/29/22 21:49
sec-Butylbenzene	5.05		5.00	1.55	ug/L	5		09/29/22 21:49
Styrene	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
tert-Butylbenzene	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
Tetrachloroethene	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
Toluene	3.65	J	5.00	1.55	ug/L	5		09/29/22 21:49
trans-1,2-Dichloroethene	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
trans-1,3-Dichloropropene	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
Trichloroethene	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
Trichlorofluoromethane	2.50	U	5.00	1.55	ug/L	5		09/29/22 21:49
Vinyl acetate	25.0	U	50.0	15.5	ug/L	5		09/29/22 21:49
Vinyl chloride	0.375	U	0.750	0.250	ug/L	5		09/29/22 21:49
Xylenes (total)	705		15.0	5.00	ug/L	5		09/29/22 21:49
Surrogates								
1,2-Dichloroethane-D4 (surr)	90.1		81-118		%	5		09/29/22 21:49
4-Bromofluorobenzene (surr)	96		85-114		%	5		09/29/22 21:49
Toluene-d8 (surr)	101		89-112		%	5		09/29/22 21:49

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW26-091522**

Client Sample ID: **MW26-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683026
Lab Project ID: 1225683

Collection Date: 09/15/22 12:10
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS22024
Analytical Method: SW8260D
Analyst: AZL
Analytical Date/Time: 09/29/22 21:49
Container ID: 1225683026-D

Prep Batch: VXX39265
Prep Method: SW5030B
Prep Date/Time: 09/29/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **MW26-091522**

Client Sample ID: **MW26-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683026
Lab Project ID: 1225683

Collection Date: 09/15/22 12:10
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Sulfate	0.389		0.200	0.0500	mg/L	1		10/04/22 16:05

Batch Information

Analytical Batch: WIC6383
Analytical Method: EPA 300.0
Analyst: EBH
Analytical Date/Time: 10/04/22 16:05
Container ID: 1225683026-J

Prep Batch: WXX14499
Prep Method: METHOD
Prep Date/Time: 10/04/22 13:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	2		09/27/22 15:17

Batch Information

Analytical Batch: WFI3006
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 09/27/22 15:17
Container ID: 1225683026-K

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW29-091522**

Client Sample ID: **MW29-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683027
Lab Project ID: 1225683

Collection Date: 09/15/22 13:40
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	6.06		0.0481	0.0144	ug/L	1		10/04/22 15:36
2-Methylnaphthalene	6.00		0.0481	0.0144	ug/L	1		10/04/22 15:36
Acenaphthene	0.0580		0.0481	0.0144	ug/L	1		10/04/22 15:36
Acenaphthylene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 15:36
Anthracene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 15:36
Benzo(a)Anthracene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 15:36
Benzo[a]pyrene	0.00960	U	0.0192	0.00596	ug/L	1		10/04/22 15:36
Benzo[b]Fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 15:36
Benzo[g,h,i]perylene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 15:36
Benzo[k]fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 15:36
Chrysene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 15:36
Dibenzo[a,h]anthracene	0.00960	U	0.0192	0.00596	ug/L	1		10/04/22 15:36
Fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 15:36
Fluorene	0.0322	J	0.0481	0.0144	ug/L	1		10/04/22 15:36
Indeno[1,2,3-c,d] pyrene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 15:36
Naphthalene	16.7		0.962	0.298	ug/L	10		10/05/22 04:42
Phenanthrene	0.0481	U	0.0962	0.0298	ug/L	1		10/04/22 15:36
Pyrene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 15:36
Surrogates								
2-Methylnaphthalene-d10 (surr)	73.3		42-86		%	1		10/04/22 15:36
Fluoranthene-d10 (surr)	66		50-97		%	1		10/04/22 15:36

Batch Information

Analytical Batch: XMS13389
Analytical Method: 8270D SIM LV (PAH)
Analyst: NGG
Analytical Date/Time: 10/05/22 04:42
Container ID: 1225683027-I

Prep Batch: XXX47025
Prep Method: SW3535A
Prep Date/Time: 09/21/22 10:20
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Analytical Batch: XMS13388
Analytical Method: 8270D SIM LV (PAH)
Analyst: NGG
Analytical Date/Time: 10/04/22 15:36
Container ID: 1225683027-I

Prep Batch: XXX47025
Prep Method: SW3535A
Prep Date/Time: 09/21/22 10:20
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

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Results of **MW29-091522**

Client Sample ID: **MW29-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683027
Lab Project ID: 1225683

Collection Date: 09/15/22 13:40
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1.96		0.577	0.192	mg/L	1		10/01/22 00:16
Surrogates								
5a Androstane (surr)	79.2		50-150		%	1		10/01/22 00:16

Batch Information

Analytical Batch: XFC16358
Analytical Method: AK102
Analyst: MAP
Analytical Date/Time: 10/01/22 00:16
Container ID: 1225683027-G

Prep Batch: XXX47067
Prep Method: SW3520C
Prep Date/Time: 09/28/22 15:35
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.892		0.481	0.192	mg/L	1		10/01/22 00:16
Surrogates								
n-Triacontane-d62 (surr)	97.2		50-150		%	1		10/01/22 00:16

Batch Information

Analytical Batch: XFC16358
Analytical Method: AK103
Analyst: MAP
Analytical Date/Time: 10/01/22 00:16
Container ID: 1225683027-G

Prep Batch: XXX47067
Prep Method: SW3520C
Prep Date/Time: 09/28/22 15:35
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW29-091522**

Client Sample ID: **MW29-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683027
Lab Project ID: 1225683

Collection Date: 09/15/22 13:40
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	6.35		0.500	0.225	mg/L	5		09/22/22 19:04
Surrogates								
4-Bromofluorobenzene (surr)	94.5		50-150		%	5		09/22/22 19:04

Batch Information

Analytical Batch: VFC16263
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/22/22 19:04
Container ID: 1225683027-B

Prep Batch: VXX39217
Prep Method: SW5030B
Prep Date/Time: 09/22/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	476		2.50	0.750	ug/L	5		09/22/22 19:04
Ethylbenzene	240		5.00	2.50	ug/L	5		09/22/22 19:04
o-Xylene	48.9		5.00	2.50	ug/L	5		09/22/22 19:04
P & M -Xylene	468		10.0	4.50	ug/L	5		09/22/22 19:04
Toluene	503		5.00	2.50	ug/L	5		09/22/22 19:04
Xylenes (total)	517		15.0	7.00	ug/L	5		09/22/22 19:04
Surrogates								
1,4-Difluorobenzene (surr)	129	*	77-115		%	5		09/22/22 19:04

Batch Information

Analytical Batch: VFC16263
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/22/22 19:04
Container ID: 1225683027-B

Prep Batch: VXX39217
Prep Method: SW5030B
Prep Date/Time: 09/22/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/13/2022 2:16:30PM

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Results of **MW29-091522**

Client Sample ID: **MW29-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683027
Lab Project ID: 1225683

Collection Date: 09/15/22 13:40
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	1.25	U	2.50	0.750	ug/L	5		09/29/22 22:04
1,1,1-Trichloroethane	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
1,1,2,2-Tetrachloroethane	1.25	U	2.50	0.750	ug/L	5		09/29/22 22:04
1,1,2-Trichloroethane	1.00	U	2.00	0.600	ug/L	5		09/29/22 22:04
1,1-Dichloroethane	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
1,1-Dichloroethene	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
1,1-Dichloropropene	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
1,2,3-Trichlorobenzene	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
1,2,3-Trichloropropane	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
1,2,4-Trichlorobenzene	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
1,2,4-Trimethylbenzene	67.6		5.00	1.55	ug/L	5		09/29/22 22:04
1,2-Dibromo-3-chloropropane	25.0	U	50.0	15.5	ug/L	5		09/29/22 22:04
1,2-Dibromoethane	0.188	U	0.375	0.0900	ug/L	5		09/29/22 22:04
1,2-Dichlorobenzene	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
1,2-Dichloroethane	1.25	U	2.50	1.00	ug/L	5		09/29/22 22:04
1,2-Dichloropropane	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
1,3,5-Trimethylbenzene	32.5		5.00	1.55	ug/L	5		09/29/22 22:04
1,3-Dichlorobenzene	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
1,3-Dichloropropane	1.25	U	2.50	0.750	ug/L	5		09/29/22 22:04
1,4-Dichlorobenzene	1.25	U	2.50	0.750	ug/L	5		09/29/22 22:04
2,2-Dichloropropane	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
2-Butanone (MEK)	25.0	U	50.0	15.5	ug/L	5		09/29/22 22:04
2-Chlorotoluene	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
2-Hexanone	25.0	U	50.0	15.5	ug/L	5		09/29/22 22:04
4-Chlorotoluene	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
4-Isopropyltoluene	4.80	J	5.00	1.55	ug/L	5		09/29/22 22:04
4-Methyl-2-pentanone (MIBK)	25.0	U	50.0	15.5	ug/L	5		09/29/22 22:04
Benzene	412		2.00	0.600	ug/L	5		09/29/22 22:04
Bromobenzene	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
Bromochloromethane	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
Bromodichloromethane	1.25	U	2.50	0.750	ug/L	5		09/29/22 22:04
Bromoform	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
Bromomethane	15.0	U	30.0	15.0	ug/L	5		09/29/22 22:04
Carbon disulfide	25.0	U	50.0	15.5	ug/L	5		09/29/22 22:04
Carbon tetrachloride	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
Chlorobenzene	1.25	U	2.50	0.750	ug/L	5		09/29/22 22:04
Chloroethane	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04

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Results of **MW29-091522**

Client Sample ID: **MW29-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683027
Lab Project ID: 1225683

Collection Date: 09/15/22 13:40
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
Chloromethane	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
cis-1,2-Dichloroethene	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
cis-1,3-Dichloropropene	1.25	U	2.50	0.750	ug/L	5		09/29/22 22:04
Dibromochloromethane	1.25	U	2.50	0.750	ug/L	5		09/29/22 22:04
Dibromomethane	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
Dichlorodifluoromethane	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
Ethylbenzene	235		5.00	1.55	ug/L	5		09/29/22 22:04
Freon-113	25.0	U	50.0	15.5	ug/L	5		09/29/22 22:04
Hexachlorobutadiene	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
Isopropylbenzene (Cumene)	9.25		5.00	1.55	ug/L	5		09/29/22 22:04
Methylene chloride	25.0	U	50.0	15.5	ug/L	5		09/29/22 22:04
Methyl-t-butyl ether	25.0	U	50.0	15.5	ug/L	5		09/29/22 22:04
Naphthalene	7.60		5.00	1.55	ug/L	5		09/29/22 22:04
n-Butylbenzene	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
n-Propylbenzene	10.5		5.00	1.55	ug/L	5		09/29/22 22:04
o-Xylene	46.7		5.00	1.55	ug/L	5		09/29/22 22:04
P & M -Xylene	486		10.0	3.10	ug/L	5		09/29/22 22:04
sec-Butylbenzene	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
Styrene	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
tert-Butylbenzene	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
Tetrachloroethene	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
Toluene	443		5.00	1.55	ug/L	5		09/29/22 22:04
trans-1,2-Dichloroethene	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
trans-1,3-Dichloropropene	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
Trichloroethene	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
Trichlorofluoromethane	2.50	U	5.00	1.55	ug/L	5		09/29/22 22:04
Vinyl acetate	25.0	U	50.0	15.5	ug/L	5		09/29/22 22:04
Vinyl chloride	0.375	U	0.750	0.250	ug/L	5		09/29/22 22:04
Xylenes (total)	532		15.0	5.00	ug/L	5		09/29/22 22:04
Surrogates								
1,2-Dichloroethane-D4 (surr)	94.4		81-118		%	5		09/29/22 22:04
4-Bromofluorobenzene (surr)	93.8		85-114		%	5		09/29/22 22:04
Toluene-d8 (surr)	103		89-112		%	5		09/29/22 22:04

Print Date: 10/13/2022 2:16:30PM

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Results of **MW29-091522**

Client Sample ID: **MW29-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683027
Lab Project ID: 1225683

Collection Date: 09/15/22 13:40
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS22024
Analytical Method: SW8260D
Analyst: AZL
Analytical Date/Time: 09/29/22 22:04
Container ID: 1225683027-D

Prep Batch: VXX39265
Prep Method: SW5030B
Prep Date/Time: 09/29/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

J flagging is activated

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Results of **MW29-091522**

Client Sample ID: **MW29-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683027
Lab Project ID: 1225683

Collection Date: 09/15/22 13:40
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Sulfate	0.0750	J	0.200	0.0500	mg/L	1		10/04/22 16:24

Batch Information

Analytical Batch: WIC6383
Analytical Method: EPA 300.0
Analyst: EBH
Analytical Date/Time: 10/04/22 16:24
Container ID: 1225683027-J

Prep Batch: WXX14499
Prep Method: METHOD
Prep Date/Time: 10/04/22 13:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.184	J	0.200	0.0500	mg/L	2		09/27/22 15:19

Batch Information

Analytical Batch: WFI3006
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 09/27/22 15:19
Container ID: 1225683027-K

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW30-091522**

Client Sample ID: **MW30-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683028
Lab Project ID: 1225683

Collection Date: 09/15/22 15:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	2.41		0.0481	0.0144	ug/L	1		10/04/22 15:57
2-Methylnaphthalene	1.47		0.0481	0.0144	ug/L	1		10/04/22 15:57
Acenaphthene	0.223		0.0481	0.0144	ug/L	1		10/04/22 15:57
Acenaphthylene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 15:57
Anthracene	0.0147	J	0.0481	0.0144	ug/L	1		10/04/22 15:57
Benzo(a)Anthracene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 15:57
Benzo[a]pyrene	0.00960	U	0.0192	0.00596	ug/L	1		10/04/22 15:57
Benzo[b]Fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 15:57
Benzo[g,h,i]perylene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 15:57
Benzo[k]fluoranthene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 15:57
Chrysene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 15:57
Dibenzo[a,h]anthracene	0.00960	U	0.0192	0.00596	ug/L	1		10/04/22 15:57
Fluoranthene	0.0241	J	0.0481	0.0144	ug/L	1		10/04/22 15:57
Fluorene	0.129		0.0481	0.0144	ug/L	1		10/04/22 15:57
Indeno[1,2,3-c,d] pyrene	0.0240	U	0.0481	0.0144	ug/L	1		10/04/22 15:57
Naphthalene	6.75		0.0962	0.0298	ug/L	1		10/04/22 15:57
Phenanthrene	0.0623	J	0.0962	0.0298	ug/L	1		10/04/22 15:57
Pyrene	0.0178	J	0.0481	0.0144	ug/L	1		10/04/22 15:57
Surrogates								
2-Methylnaphthalene-d10 (surr)	49.8		42-86		%	1		10/04/22 15:57
Fluoranthene-d10 (surr)	56.6		50-97		%	1		10/04/22 15:57

Batch Information

Analytical Batch: XMS13388
Analytical Method: 8270D SIM LV (PAH)
Analyst: NGG
Analytical Date/Time: 10/04/22 15:57
Container ID: 1225683028-H

Prep Batch: XXX47025
Prep Method: SW3535A
Prep Date/Time: 09/21/22 10:20
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW30-091522**

Client Sample ID: **MW30-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683028
Lab Project ID: 1225683

Collection Date: 09/15/22 15:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1.18		0.577	0.192	mg/L	1		10/01/22 00:26
Surrogates								
5a Androstane (surr)	78.5		50-150		%	1		10/01/22 00:26

Batch Information

Analytical Batch: XFC16358
Analytical Method: AK102
Analyst: MAP
Analytical Date/Time: 10/01/22 00:26
Container ID: 1225683028-G

Prep Batch: XXX47067
Prep Method: SW3520C
Prep Date/Time: 09/28/22 15:35
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.763		0.481	0.192	mg/L	1		10/01/22 00:26
Surrogates								
n-Triacontane-d62 (surr)	95.5		50-150		%	1		10/01/22 00:26

Batch Information

Analytical Batch: XFC16358
Analytical Method: AK103
Analyst: MAP
Analytical Date/Time: 10/01/22 00:26
Container ID: 1225683028-G

Prep Batch: XXX47067
Prep Method: SW3520C
Prep Date/Time: 09/28/22 15:35
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW30-091522**

Client Sample ID: **MW30-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683028
Lab Project ID: 1225683

Collection Date: 09/15/22 15:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	5.56		0.500	0.225	mg/L	5		09/22/22 19:23
Surrogates								
4-Bromofluorobenzene (surr)	93.3		50-150		%	5		09/22/22 19:23

Batch Information

Analytical Batch: VFC16263
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/22/22 19:23
Container ID: 1225683028-B

Prep Batch: VXX39217
Prep Method: SW5030B
Prep Date/Time: 09/22/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	139		2.50	0.750	ug/L	5		09/22/22 19:23
Ethylbenzene	65.1		5.00	2.50	ug/L	5		09/22/22 19:23
o-Xylene	12.8		5.00	2.50	ug/L	5		09/22/22 19:23
P & M -Xylene	223		10.0	4.50	ug/L	5		09/22/22 19:23
Toluene	20.4		5.00	2.50	ug/L	5		09/22/22 19:23
Xylenes (total)	236		15.0	7.00	ug/L	5		09/22/22 19:23
Surrogates								
1,4-Difluorobenzene (surr)	129	*	77-115		%	5		09/22/22 19:23

Batch Information

Analytical Batch: VFC16263
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/22/22 19:23
Container ID: 1225683028-B

Prep Batch: VXX39217
Prep Method: SW5030B
Prep Date/Time: 09/22/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW30-091522**

Client Sample ID: **MW30-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683028
Lab Project ID: 1225683

Collection Date: 09/15/22 15:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.500	U	1.00	0.300	ug/L	2		09/29/22 22:19
1,1,1-Trichloroethane	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
1,1,2,2-Tetrachloroethane	0.500	U	1.00	0.300	ug/L	2		09/29/22 22:19
1,1,2-Trichloroethane	0.400	U	0.800	0.240	ug/L	2		09/29/22 22:19
1,1-Dichloroethane	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
1,1-Dichloroethene	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
1,1-Dichloropropene	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
1,2,3-Trichlorobenzene	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
1,2,3-Trichloropropane	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
1,2,4-Trichlorobenzene	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
1,2,4-Trimethylbenzene	182		2.00	0.620	ug/L	2		09/29/22 22:19
1,2-Dibromo-3-chloropropane	10.0	U	20.0	6.20	ug/L	2		09/29/22 22:19
1,2-Dibromoethane	0.0750	U	0.150	0.0360	ug/L	2		09/29/22 22:19
1,2-Dichlorobenzene	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
1,2-Dichloroethane	0.500	U	1.00	0.400	ug/L	2		09/29/22 22:19
1,2-Dichloropropane	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
1,3,5-Trimethylbenzene	69.2		2.00	0.620	ug/L	2		09/29/22 22:19
1,3-Dichlorobenzene	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
1,3-Dichloropropane	0.500	U	1.00	0.300	ug/L	2		09/29/22 22:19
1,4-Dichlorobenzene	0.500	U	1.00	0.300	ug/L	2		09/29/22 22:19
2,2-Dichloropropane	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
2-Butanone (MEK)	10.0	U	20.0	6.20	ug/L	2		09/29/22 22:19
2-Chlorotoluene	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
2-Hexanone	10.0	U	20.0	6.20	ug/L	2		09/29/22 22:19
4-Chlorotoluene	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
4-Isopropyltoluene	7.98		2.00	0.620	ug/L	2		09/29/22 22:19
4-Methyl-2-pentanone (MIBK)	10.0	U	20.0	6.20	ug/L	2		09/29/22 22:19
Benzene	99.9		0.800	0.240	ug/L	2		09/29/22 22:19
Bromobenzene	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
Bromochloromethane	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
Bromodichloromethane	0.500	U	1.00	0.300	ug/L	2		09/29/22 22:19
Bromoform	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
Bromomethane	6.00	U	12.0	6.00	ug/L	2		09/29/22 22:19
Carbon disulfide	10.0	U	20.0	6.20	ug/L	2		09/29/22 22:19
Carbon tetrachloride	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
Chlorobenzene	0.500	U	1.00	0.300	ug/L	2		09/29/22 22:19
Chloroethane	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19

J flagging is activated

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Results of **MW30-091522**

Client Sample ID: **MW30-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683028
Lab Project ID: 1225683

Collection Date: 09/15/22 15:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloroform	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
Chloromethane	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
cis-1,2-Dichloroethene	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
cis-1,3-Dichloropropene	0.500	U	1.00	0.300	ug/L	2		09/29/22 22:19
Dibromochloromethane	0.500	U	1.00	0.300	ug/L	2		09/29/22 22:19
Dibromomethane	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
Dichlorodifluoromethane	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
Ethylbenzene	63.8		2.00	0.620	ug/L	2		09/29/22 22:19
Freon-113	10.0	U	20.0	6.20	ug/L	2		09/29/22 22:19
Hexachlorobutadiene	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
Isopropylbenzene (Cumene)	8.06		2.00	0.620	ug/L	2		09/29/22 22:19
Methylene chloride	10.0	U	20.0	6.20	ug/L	2		09/29/22 22:19
Methyl-t-butyl ether	10.0	U	20.0	6.20	ug/L	2		09/29/22 22:19
Naphthalene	34.0		2.00	0.620	ug/L	2		09/29/22 22:19
n-Butylbenzene	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
n-Propylbenzene	19.9		2.00	0.620	ug/L	2		09/29/22 22:19
o-Xylene	10.1		2.00	0.620	ug/L	2		09/29/22 22:19
P & M -Xylene	237		4.00	1.24	ug/L	2		09/29/22 22:19
sec-Butylbenzene	3.38		2.00	0.620	ug/L	2		09/29/22 22:19
Styrene	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
tert-Butylbenzene	1.64	J	2.00	0.620	ug/L	2		09/29/22 22:19
Tetrachloroethene	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
Toluene	17.2		2.00	0.620	ug/L	2		09/29/22 22:19
trans-1,2-Dichloroethene	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
trans-1,3-Dichloropropene	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
Trichloroethene	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
Trichlorofluoromethane	1.00	U	2.00	0.620	ug/L	2		09/29/22 22:19
Vinyl acetate	10.0	U	20.0	6.20	ug/L	2		09/29/22 22:19
Vinyl chloride	0.150	U	0.300	0.100	ug/L	2		09/29/22 22:19
Xylenes (total)	247		6.00	2.00	ug/L	2		09/29/22 22:19
Surrogates								
1,2-Dichloroethane-D4 (surr)	86.3		81-118		%	2		09/29/22 22:19
4-Bromofluorobenzene (surr)	99		85-114		%	2		09/29/22 22:19
Toluene-d8 (surr)	99.9		89-112		%	2		09/29/22 22:19

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Results of **MW30-091522**

Client Sample ID: **MW30-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683028
Lab Project ID: 1225683

Collection Date: 09/15/22 15:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS22024
Analytical Method: SW8260D
Analyst: AZL
Analytical Date/Time: 09/29/22 22:19
Container ID: 1225683028-D

Prep Batch: VXX39265
Prep Method: SW5030B
Prep Date/Time: 09/29/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

J flagging is activated

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Results of **MW30-091522**

Client Sample ID: **MW30-091522**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225683028
Lab Project ID: 1225683

Collection Date: 09/15/22 15:00
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Sulfate	0.0850	J	0.200	0.0500	mg/L	1		10/04/22 17:21

Batch Information

Analytical Batch: WIC6383
Analytical Method: EPA 300.0
Analyst: EBH
Analytical Date/Time: 10/04/22 17:21
Container ID: 1225683028-I

Prep Batch: WXX14499
Prep Method: METHOD
Prep Date/Time: 10/04/22 13:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.262		0.200	0.0500	mg/L	2		09/27/22 15:21

Batch Information

Analytical Batch: WFI3006
Analytical Method: SM21 4500NO3-F
Analyst: EBH
Analytical Date/Time: 09/27/22 15:21
Container ID: 1225683028-J

Print Date: 10/13/2022 2:16:30PM

J flagging is activated

Method Blank

Blank ID: MB for HBN 1844014 [VXX/39203]
Blank Lab ID: 1686914

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683001, 1225683002, 1225683003, 1225683004, 1225683005, 1225683008, 1225683009, 1225683010, 1225683011, 1225683012, 1225683013, 1225683014, 1225683015, 1225683016, 1225683017, 1225683018

Results by **AK101**

Parameter	Results	LOQ/CL	DL	Units
Gasoline Range Organics	0.0500U	0.100	0.0450	mg/L
Surrogates				
4-Bromofluorobenzene (surr)	84.9	50-150		%

Batch Information

Analytical Batch: VFC16259
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: PHK
Analytical Date/Time: 9/20/2022 12:40:00PM

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 9/20/2022 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/13/2022 2:16:37PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [VXX39203]
Blank Spike Lab ID: 1686917
Date Analyzed: 09/20/2022 13:35

Spike Duplicate ID: LCSD for HBN 1225683 [VXX39203]
Spike Duplicate Lab ID: 1686918
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683001, 1225683002, 1225683003, 1225683004, 1225683005, 1225683008, 1225683009, 1225683010, 1225683011, 1225683012, 1225683013, 1225683014, 1225683015, 1225683016, 1225683017, 1225683018

Results by **AK101**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Gasoline Range Organics	1.00	0.972	97	1.00	0.937	94	(60-120)	3.60	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500		98	0.0500		89	(50-150)	9.80	

Batch Information

Analytical Batch: **VFC16259**
Analytical Method: **AK101**
Instrument: **Agilent 7890 PID/FID**
Analyst: **PHK**

Prep Batch: **VXX39203**
Prep Method: **SW5030B**
Prep Date/Time: **09/20/2022 06:00**
Spike Init Wt./Vol.: 0.0500 mg/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 0.0500 mg/L Extract Vol: 5 mL

Print Date: 10/13/2022 2:16:39PM

Method Blank

Blank ID: MB for HBN 1844014 [VXX/39203]
Blank Lab ID: 1686914

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683001, 1225683002, 1225683003, 1225683004, 1225683005, 1225683008, 1225683009, 1225683010, 1225683011, 1225683012, 1225683013, 1225683014, 1225683015, 1225683016, 1225683017, 1225683018

Results by **SW8021B**

Parameter	Results	LOQ/CL	DL	Units
Benzene	0.250U	0.500	0.150	ug/L
Ethylbenzene	0.500U	1.00	0.500	ug/L
o-Xylene	0.500U	1.00	0.500	ug/L
P & M -Xylene	1.00U	2.00	0.900	ug/L
Toluene	0.500U	1.00	0.500	ug/L
Xylenes (total)	1.50U	3.00	1.40	ug/L
Surrogates				
1,4-Difluorobenzene (surr)	89.1	77-115		%

Batch Information

Analytical Batch: VFC16259
Analytical Method: SW8021B
Instrument: Agilent 7890 PID/FID
Analyst: PHK
Analytical Date/Time: 9/20/2022 12:40:00PM

Prep Batch: VXX39203
Prep Method: SW5030B
Prep Date/Time: 9/20/2022 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [VXX39203]
Blank Spike Lab ID: 1686915
Date Analyzed: 09/20/2022 13:16

Spike Duplicate ID: LCSD for HBN 1225683 [VXX39203]
Spike Duplicate Lab ID: 1686916
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683001, 1225683002, 1225683003, 1225683004, 1225683005, 1225683008, 1225683009, 1225683010, 1225683011, 1225683012, 1225683013, 1225683014, 1225683015, 1225683016, 1225683017, 1225683018

Results by **SW8021B**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Benzene	100	104	104	100	111	111	(80-120)	6.40	(< 20)
Ethylbenzene	100	97.6	98	100	106	106	(75-125)	7.90	(< 20)
o-Xylene	100	95.2	95	100	105	105	(80-120)	10.20	(< 20)
P & M -Xylene	200	194	97	200	212	106	(75-130)	8.60	(< 20)
Toluene	100	99.0	99	100	107	107	(75-120)	8.10	(< 20)
Xylenes (total)	300	289	96	300	317	106	(79-121)	9.10	(< 20)
Surrogates									
1,4-Difluorobenzene (surr)	50		100	50		102	(77-115)	1.80	

Batch Information

Analytical Batch: **VFC16259**
Analytical Method: **SW8021B**
Instrument: **Agilent 7890 PID/FID**
Analyst: **PHK**

Prep Batch: **VXX39203**
Prep Method: **SW5030B**
Prep Date/Time: **09/20/2022 06:00**
Spike Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL

Print Date: 10/13/2022 2:16:43PM

Method Blank

Blank ID: MB for HBN 1844083 [VXX/39212]
Blank Lab ID: 1687197

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683006, 1225683007, 1225683019, 1225683021, 1225683022, 1225683023, 1225683024, 1225683025

Results by **AK101**

Parameter	Results	LOQ/CL	DL	Units
Gasoline Range Organics	0.0500U	0.100	0.0450	mg/L
Surrogates				
4-Bromofluorobenzene (surr)	88.2	50-150		%

Batch Information

Analytical Batch: VFC16262
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: PHK
Analytical Date/Time: 9/21/2022 12:11:00PM

Prep Batch: VXX39212
Prep Method: SW5030B
Prep Date/Time: 9/21/2022 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/13/2022 2:16:45PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [VXX39212]
Blank Spike Lab ID: 1687200
Date Analyzed: 09/21/2022 13:06

Spike Duplicate ID: LCSD for HBN 1225683 [VXX39212]
Spike Duplicate Lab ID: 1687201
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683006, 1225683007, 1225683019, 1225683021, 1225683022, 1225683023, 1225683024, 1225683025

Results by **AK101**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Gasoline Range Organics	1.00	0.973	97	1.00	0.942	94	(60-120)	3.20	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500		100	0.0500		95	(50-150)	5.30	

Batch Information

Analytical Batch: **VFC16262**
Analytical Method: **AK101**
Instrument: **Agilent 7890 PID/FID**
Analyst: **PHK**

Prep Batch: **VXX39212**
Prep Method: **SW5030B**
Prep Date/Time: **09/21/2022 06:00**
Spike Init Wt./Vol.: 0.0500 mg/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 0.0500 mg/L Extract Vol: 5 mL

Print Date: 10/13/2022 2:16:47PM

Method Blank

Blank ID: MB for HBN 1844083 [VXX/39212]
Blank Lab ID: 1687197

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683006, 1225683007, 1225683019, 1225683021, 1225683022, 1225683023, 1225683024, 1225683025

Results by **SW8021B**

Parameter	Results	LOQ/CL	DL	Units
Benzene	0.250U	0.500	0.150	ug/L
Ethylbenzene	0.500U	1.00	0.500	ug/L
o-Xylene	0.500U	1.00	0.500	ug/L
P & M -Xylene	1.00U	2.00	0.900	ug/L
Toluene	0.500U	1.00	0.500	ug/L
Xylenes (total)	1.50U	3.00	1.40	ug/L
Surrogates				
1,4-Difluorobenzene (surr)	90.4	77-115		%

Batch Information

Analytical Batch: VFC16262
Analytical Method: SW8021B
Instrument: Agilent 7890 PID/FID
Analyst: PHK
Analytical Date/Time: 9/21/2022 12:11:00PM

Prep Batch: VXX39212
Prep Method: SW5030B
Prep Date/Time: 9/21/2022 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [VXX39212]
Blank Spike Lab ID: 1687198
Date Analyzed: 09/21/2022 12:48

Spike Duplicate ID: LCSD for HBN 1225683 [VXX39212]
Spike Duplicate Lab ID: 1687199
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683006, 1225683007, 1225683019, 1225683021, 1225683022, 1225683023, 1225683024, 1225683025

Results by **SW8021B**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Benzene	100	108	108	100	106	106	(80-120)	2.00	(< 20)
Ethylbenzene	100	101	101	100	99.1	99	(75-125)	1.40	(< 20)
o-Xylene	100	98.8	99	100	97.3	97	(80-120)	1.40	(< 20)
P & M -Xylene	200	200	100	200	197	99	(75-130)	1.60	(< 20)
Toluene	100	103	103	100	102	102	(75-120)	0.73	(< 20)
Xylenes (total)	300	299	100	300	295	98	(79-121)	1.50	(< 20)
Surrogates									
1,4-Difluorobenzene (surr)	50		102	50		101	(77-115)	0.83	

Batch Information

Analytical Batch: **VFC16262**
Analytical Method: **SW8021B**
Instrument: **Agilent 7890 PID/FID**
Analyst: **PHK**

Prep Batch: **VXX39212**
Prep Method: **SW5030B**
Prep Date/Time: **09/21/2022 06:00**
Spike Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL

Print Date: 10/13/2022 2:16:52PM

Method Blank

Blank ID: MB for HBN 1844123 [VXX/39217]
Blank Lab ID: 1687402

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683008, 1225683020, 1225683021, 1225683026, 1225683027, 1225683028

Results by **AK101**

Parameter	Results	LOQ/CL	DL	Units
Gasoline Range Organics	0.0500U	0.100	0.0450	mg/L
Surrogates				
4-Bromofluorobenzene (surr)	93.3	50-150		%

Batch Information

Analytical Batch: VFC16263
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: PHK
Analytical Date/Time: 9/22/2022 2:00:00PM

Prep Batch: VXX39217
Prep Method: SW5030B
Prep Date/Time: 9/22/2022 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/13/2022 2:16:54PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [VXX39217]
Blank Spike Lab ID: 1687405
Date Analyzed: 09/22/2022 14:55

Spike Duplicate ID: LCSD for HBN 1225683 [VXX39217]
Spike Duplicate Lab ID: 1687406
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683008, 1225683020, 1225683021, 1225683026, 1225683027, 1225683028

Results by **AK101**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Gasoline Range Organics	1.00	0.938	94	1.00	0.941	94	(60-120)	0.26	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500		87	0.0500		89	(50-150)	3.10	

Batch Information

Analytical Batch: **VFC16263**
Analytical Method: **AK101**
Instrument: **Agilent 7890 PID/FID**
Analyst: **PHK**

Prep Batch: **VXX39217**
Prep Method: **SW5030B**
Prep Date/Time: **09/22/2022 06:00**
Spike Init Wt./Vol.: 0.0500 mg/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 0.0500 mg/L Extract Vol: 5 mL

Print Date: 10/13/2022 2:16:57PM

Method Blank

Blank ID: MB for HBN 1844123 [VXX/39217]
Blank Lab ID: 1687402

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683008, 1225683020, 1225683021, 1225683026, 1225683027, 1225683028

Results by **SW8021B**

Parameter	Results	LOQ/CL	DL	Units
Benzene	0.250U	0.500	0.150	ug/L
Ethylbenzene	0.500U	1.00	0.500	ug/L
o-Xylene	0.500U	1.00	0.500	ug/L
P & M -Xylene	1.00U	2.00	0.900	ug/L
Toluene	0.500U	1.00	0.500	ug/L
Xylenes (total)	1.50U	3.00	1.40	ug/L
Surrogates				
1,4-Difluorobenzene (surr)	91	77-115		%

Batch Information

Analytical Batch: VFC16263
Analytical Method: SW8021B
Instrument: Agilent 7890 PID/FID
Analyst: PHK
Analytical Date/Time: 9/22/2022 2:00:00PM

Prep Batch: VXX39217
Prep Method: SW5030B
Prep Date/Time: 9/22/2022 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [VXX39217]
Blank Spike Lab ID: 1687403
Date Analyzed: 09/22/2022 14:36

Spike Duplicate ID: LCSD for HBN 1225683 [VXX39217]
Spike Duplicate Lab ID: 1687404
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683008, 1225683020, 1225683021, 1225683026, 1225683027, 1225683028

Results by **SW8021B**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Benzene	100	108	108	100	112	112	(80-120)	2.90	(< 20)
Ethylbenzene	100	99.0	99	100	101	101	(75-125)	2.00	(< 20)
o-Xylene	100	96.4	96	100	96.1	96	(80-120)	0.32	(< 20)
P & M -Xylene	200	196	98	200	199	99	(75-130)	1.40	(< 20)
Toluene	100	103	103	100	106	106	(75-120)	3.20	(< 20)
Xylenes (total)	300	292	98	300	295	98	(79-121)	0.83	(< 20)
Surrogates									
1,4-Difluorobenzene (surr)	50		102	50		100	(77-115)	2.00	

Batch Information

Analytical Batch: **VFC16263**
Analytical Method: **SW8021B**
Instrument: **Agilent 7890 PID/FID**
Analyst: **PHK**

Prep Batch: **VXX39217**
Prep Method: **SW5030B**
Prep Date/Time: **09/22/2022 06:00**
Spike Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL

Print Date: 10/13/2022 2:17:00PM

Method Blank

Blank ID: MB for HBN 1844138 [VXX/39221]
Blank Lab ID: 1687452

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683001

Results by **SW8260D**

Parameter	Results	LOQ/CL	DL	Units
1,1,1,2-Tetrachloroethane	0.250U	0.500	0.150	ug/L
1,1,1-Trichloroethane	0.500U	1.00	0.310	ug/L
1,1,2,2-Tetrachloroethane	0.250U	0.500	0.150	ug/L
1,1,2-Trichloroethane	0.200U	0.400	0.120	ug/L
1,1-Dichloroethane	0.500U	1.00	0.310	ug/L
1,1-Dichloroethene	0.500U	1.00	0.310	ug/L
1,1-Dichloropropene	0.500U	1.00	0.310	ug/L
1,2,3-Trichlorobenzene	0.500U	1.00	0.310	ug/L
1,2,3-Trichloropropane	0.500U	1.00	0.310	ug/L
1,2,4-Trichlorobenzene	0.500U	1.00	0.310	ug/L
1,2,4-Trimethylbenzene	0.500U	1.00	0.310	ug/L
1,2-Dibromo-3-chloropropane	5.00U	10.0	3.10	ug/L
1,2-Dibromoethane	0.0375U	0.0750	0.0180	ug/L
1,2-Dichlorobenzene	0.500U	1.00	0.310	ug/L
1,2-Dichloroethane	0.250U	0.500	0.200	ug/L
1,2-Dichloropropane	0.500U	1.00	0.310	ug/L
1,3,5-Trimethylbenzene	0.500U	1.00	0.310	ug/L
1,3-Dichlorobenzene	0.500U	1.00	0.310	ug/L
1,3-Dichloropropane	0.250U	0.500	0.150	ug/L
1,4-Dichlorobenzene	0.250U	0.500	0.150	ug/L
2,2-Dichloropropane	0.500U	1.00	0.310	ug/L
2-Butanone (MEK)	5.00U	10.0	3.10	ug/L
2-Chlorotoluene	0.500U	1.00	0.310	ug/L
2-Hexanone	5.00U	10.0	3.10	ug/L
4-Chlorotoluene	0.500U	1.00	0.310	ug/L
4-Isopropyltoluene	0.500U	1.00	0.310	ug/L
4-Methyl-2-pentanone (MIBK)	5.00U	10.0	3.10	ug/L
Benzene	0.200U	0.400	0.120	ug/L
Bromobenzene	0.500U	1.00	0.310	ug/L
Bromochloromethane	0.500U	1.00	0.310	ug/L
Bromodichloromethane	0.250U	0.500	0.150	ug/L
Bromoform	0.500U	1.00	0.310	ug/L
Bromomethane	3.00U	6.00	3.00	ug/L
Carbon disulfide	5.00U	10.0	3.10	ug/L
Carbon tetrachloride	0.500U	1.00	0.310	ug/L
Chlorobenzene	0.250U	0.500	0.150	ug/L
Chloroethane	0.500U	1.00	0.310	ug/L
Chloroform	0.500U	1.00	0.310	ug/L

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Method Blank

Blank ID: MB for HBN 1844138 [VXX/39221]
Blank Lab ID: 1687452

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683001

Results by **SW8260D**

Parameter	Results	LOQ/CL	DL	Units
Chloromethane	0.500U	1.00	0.310	ug/L
cis-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
cis-1,3-Dichloropropene	0.250U	0.500	0.150	ug/L
Dibromochloromethane	0.250U	0.500	0.150	ug/L
Dibromomethane	0.500U	1.00	0.310	ug/L
Dichlorodifluoromethane	0.500U	1.00	0.310	ug/L
Ethylbenzene	0.500U	1.00	0.310	ug/L
Freon-113	5.00U	10.0	3.10	ug/L
Hexachlorobutadiene	0.500U	1.00	0.310	ug/L
Isopropylbenzene (Cumene)	0.500U	1.00	0.310	ug/L
Methylene chloride	5.00U	10.0	3.10	ug/L
Methyl-t-butyl ether	5.00U	10.0	3.10	ug/L
Naphthalene	0.500U	1.00	0.310	ug/L
n-Butylbenzene	0.500U	1.00	0.310	ug/L
n-Propylbenzene	0.500U	1.00	0.310	ug/L
o-Xylene	0.500U	1.00	0.310	ug/L
P & M -Xylene	1.00U	2.00	0.620	ug/L
sec-Butylbenzene	0.500U	1.00	0.310	ug/L
Styrene	0.500U	1.00	0.310	ug/L
tert-Butylbenzene	0.500U	1.00	0.310	ug/L
Tetrachloroethene	0.500U	1.00	0.310	ug/L
Toluene	0.500U	1.00	0.310	ug/L
trans-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
trans-1,3-Dichloropropene	0.500U	1.00	0.310	ug/L
Trichloroethene	0.500U	1.00	0.310	ug/L
Trichlorofluoromethane	0.500U	1.00	0.310	ug/L
Vinyl acetate	5.00U	10.0	3.10	ug/L
Vinyl chloride	0.0750U	0.150	0.0500	ug/L
Xylenes (total)	1.50U	3.00	1.00	ug/L
Surrogates				
1,2-Dichloroethane-D4 (surr)	104	81-118		%
4-Bromofluorobenzene (surr)	97.2	85-114		%
Toluene-d8 (surr)	96.2	89-112		%

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Method Blank

Blank ID: MB for HBN 1844138 [VXX/39221]
Blank Lab ID: 1687452

QC for Samples:
1225683001

Matrix: Water (Surface, Eff., Ground)

Results by **SW8260D**

Parameter	Results	LOQ/CL	DL	Units

Batch Information

Analytical Batch: VMS21998
Analytical Method: SW8260D
Instrument: VPA 780/5975 GC/MS
Analyst: AZL
Analytical Date/Time: 9/22/2022 1:09:00PM

Prep Batch: VXX39221
Prep Method: SW5030B
Prep Date/Time: 9/22/2022 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/13/2022 2:17:02PM

Leaching Blank

Blank ID: LB for HBN 1843992 [TCLP/11974
Blank Lab ID: 1686801

QC for Samples:
1225683001

Matrix: Water (Surface, Eff., Ground)

Results by **SW8260D**

Parameter	Results	LOQ/CL	DL	Units
1,1-Dichloroethene	25.0U	50.0	15.5	ug/L
1,2-Dichloroethane	12.5U	25.0	10.0	ug/L
1,4-Dichlorobenzene	12.5U	25.0	7.50	ug/L
2-Butanone (MEK)	250U	500	155	ug/L
Carbon tetrachloride	25.0U	50.0	15.5	ug/L
Chlorobenzene	12.5U	25.0	7.50	ug/L
Chloroform	25.0U	50.0	15.5	ug/L
Hexachlorobutadiene	25.0U	50.0	15.5	ug/L
Tetrachloroethene	25.0U	50.0	15.5	ug/L
Trichloroethene	25.0U	50.0	15.5	ug/L
Vinyl chloride	25.0U	50.0	15.5	ug/L
Surrogates				
1,2-Dichloroethane-D4 (surr)	105	81-118		%
4-Bromofluorobenzene (surr)	97.3	85-114		%
Toluene-d8 (surr)	95.1	89-112		%

Batch Information

Analytical Batch: VMS21998
Analytical Method: SW8260D
Instrument: VPA 780/5975 GC/MS
Analyst: AZL
Analytical Date/Time: 9/22/2022 9:02:00PM

Prep Batch: VXX39221
Prep Method: SW5030B
Prep Date/Time: 9/22/2022 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/13/2022 2:17:02PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [VXX39221]
Blank Spike Lab ID: 1687453
Date Analyzed: 09/22/2022 13:24

Spike Duplicate ID: LCSD for HBN 1225683 [VXX39221]
Spike Duplicate Lab ID: 1687454
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683001

Results by **SW8260D**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	30	31.4	105	30	32.5	108	(78-124)	3.50	(< 20)
1,1,1-Trichloroethane	30	32.5	108	30	34.2	114	(74-131)	5.30	(< 20)
1,1,2,2-Tetrachloroethane	30	26.5	89	30	27.2	91	(71-121)	2.30	(< 20)
1,1,2-Trichloroethane	30	28.4	95	30	29.2	97	(80-119)	2.70	(< 20)
1,1-Dichloroethane	30	29.9	100	30	31.0	103	(77-125)	3.50	(< 20)
1,1-Dichloroethene	30	31.4	105	30	32.5	108	(71-131)	3.50	(< 20)
1,1-Dichloropropene	30	32.0	107	30	34.0	113	(79-125)	6.20	(< 20)
1,2,3-Trichlorobenzene	30	29.4	98	30	30.8	103	(69-129)	4.70	(< 20)
1,2,3-Trichloropropane	30	27.6	92	30	28.0	93	(73-122)	1.60	(< 20)
1,2,4-Trichlorobenzene	30	29.0	97	30	30.6	102	(69-130)	5.40	(< 20)
1,2,4-Trimethylbenzene	30	28.4	95	30	29.9	100	(79-124)	5.20	(< 20)
1,2-Dibromo-3-chloropropane	30	26.7	89	30	27.8	93	(62-128)	4.10	(< 20)
1,2-Dibromoethane	30	29.6	99	30	30.6	102	(77-121)	3.30	(< 20)
1,2-Dichlorobenzene	30	27.3	91	30	28.8	96	(80-119)	5.30	(< 20)
1,2-Dichloroethane	30	29.8	99	30	30.4	101	(73-128)	1.90	(< 20)
1,2-Dichloropropane	30	30.9	103	30	32.2	107	(78-122)	4.10	(< 20)
1,3,5-Trimethylbenzene	30	28.0	93	30	30.1	100	(75-124)	7.10	(< 20)
1,3-Dichlorobenzene	30	28.2	94	30	29.9	100	(80-119)	5.90	(< 20)
1,3-Dichloropropane	30	28.7	96	30	29.3	98	(80-119)	2.30	(< 20)
1,4-Dichlorobenzene	30	28.3	94	30	29.8	99	(79-118)	5.00	(< 20)
2,2-Dichloropropane	30	33.1	110	30	34.8	116	(60-139)	5.10	(< 20)
2-Butanone (MEK)	90	88.1	98	90	88.4	98	(56-143)	0.29	(< 20)
2-Chlorotoluene	30	27.1	90	30	28.7	96	(79-122)	5.70	(< 20)
2-Hexanone	90	87.6	97	90	88.9	99	(57-139)	1.50	(< 20)
4-Chlorotoluene	30	27.5	92	30	29.0	97	(78-122)	5.40	(< 20)
4-Isopropyltoluene	30	29.2	97	30	30.6	102	(77-127)	4.60	(< 20)
4-Methyl-2-pentanone (MIBK)	90	98.4	109	90	99.4	110	(67-130)	1.10	(< 20)
Benzene	30	30.9	103	30	32.2	107	(79-120)	4.30	(< 20)
Bromobenzene	30	28.1	94	30	29.6	99	(80-120)	5.10	(< 20)
Bromochloromethane	30	32.5	108	30	33.2	111	(78-123)	2.20	(< 20)
Bromodichloromethane	30	32.1	107	30	32.9	110	(79-125)	2.50	(< 20)
Bromoform	30	32.1	107	30	32.7	109	(66-130)	2.10	(< 20)
Bromomethane	30	28.3	94	30	31.3	104	(53-141)	10.10	(< 20)
Carbon disulfide	45	45.0	100	45	46.9	104	(64-133)	4.20	(< 20)

Print Date: 10/13/2022 2:17:03PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [VXX39221]
Blank Spike Lab ID: 1687453
Date Analyzed: 09/22/2022 13:24

Spike Duplicate ID: LCSD for HBN 1225683 [VXX39221]
Spike Duplicate Lab ID: 1687454
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683001

Results by **SW8260D**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Carbon tetrachloride	30	34.2	114	30	35.9	120	(72-136)	5.00	(< 20)
Chlorobenzene	30	29.6	99	30	30.8	103	(82-118)	3.90	(< 20)
Chloroethane	30	27.6	92	30	28.5	95	(60-138)	3.30	(< 20)
Chloroform	30	30.5	102	30	31.6	105	(79-124)	3.50	(< 20)
Chloromethane	30	25.3	84	30	26.8	90	(50-139)	6.10	(< 20)
cis-1,2-Dichloroethene	30	30.3	101	30	32.0	107	(78-123)	5.30	(< 20)
cis-1,3-Dichloropropene	30	31.6	105	30	33.0	110	(75-124)	4.10	(< 20)
Dibromochloromethane	30	31.1	104	30	32.0	107	(74-126)	3.00	(< 20)
Dibromomethane	30	30.6	102	30	31.6	105	(79-123)	3.10	(< 20)
Dichlorodifluoromethane	30	25.6	85	30	27.2	91	(32-152)	5.90	(< 20)
Ethylbenzene	30	30.4	101	30	32.3	108	(79-121)	5.90	(< 20)
Freon-113	45	49.0	109	45	50.8	113	(70-136)	3.50	(< 20)
Hexachlorobutadiene	30	29.8	99	30	32.0	107	(66-134)	7.10	(< 20)
Isopropylbenzene (Cumene)	30	30.2	101	30	31.9	106	(72-131)	5.60	(< 20)
Methylene chloride	30	32.1	107	30	32.6	109	(74-124)	1.40	(< 20)
Methyl-t-butyl ether	45	50.0	111	45	51.1	114	(71-124)	2.30	(< 20)
Naphthalene	30	29.7	99	30	30.8	103	(61-128)	3.60	(< 20)
n-Butylbenzene	30	28.5	95	30	30.2	101	(75-128)	5.70	(< 20)
n-Propylbenzene	30	27.3	91	30	29.0	97	(76-126)	6.30	(< 20)
o-Xylene	30	30.1	100	30	31.7	106	(78-122)	5.10	(< 20)
P & M -Xylene	60	60.8	101	60	64.2	107	(80-121)	5.50	(< 20)
sec-Butylbenzene	30	28.0	93	30	30.0	100	(77-126)	6.90	(< 20)
Styrene	30	31.0	103	30	32.4	108	(78-123)	4.30	(< 20)
tert-Butylbenzene	30	27.9	93	30	29.9	100	(78-124)	7.00	(< 20)
Tetrachloroethene	30	31.3	104	30	33.3	111	(74-129)	6.20	(< 20)
Toluene	30	28.2	94	30	29.7	99	(80-121)	5.00	(< 20)
trans-1,2-Dichloroethene	30	31.1	104	30	32.5	108	(75-124)	4.30	(< 20)
trans-1,3-Dichloropropene	30	31.3	104	30	32.3	108	(73-127)	3.20	(< 20)
Trichloroethene	30	31.4	105	30	33.1	110	(79-123)	5.40	(< 20)
Trichlorofluoromethane	30	32.1	107	30	32.6	109	(65-141)	1.50	(< 20)
Vinyl acetate	30	31.6	105	30	32.3	108	(54-146)	2.10	(< 20)
Vinyl chloride	30	26.9	90	30	29.0	97	(58-137)	7.40	(< 20)
Xylenes (total)	90	90.9	101	90	95.9	107	(79-121)	5.40	(< 20)

Print Date: 10/13/2022 2:17:03PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [VXX39221]
Blank Spike Lab ID: 1687453
Date Analyzed: 09/22/2022 13:24

Spike Duplicate ID: LCSD for HBN 1225683 [VXX39221]
Spike Duplicate Lab ID: 1687454
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683001

Results by **SW8260D**

	Blank Spike (%)			Spike Duplicate (%)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Surrogates									
1,2-Dichloroethane-D4 (surr)	30		102	30		101	(81-118)	1.60	
4-Bromofluorobenzene (surr)	30		95	30		95	(85-114)	0.32	
Toluene-d8 (surr)	30		99	30		98	(89-112)	0.41	

Batch Information

Analytical Batch: **VMS21998**
Analytical Method: **SW8260D**
Instrument: **VPA 780/5975 GC/MS**
Analyst: **AZL**

Prep Batch: **VXX39221**
Prep Method: **SW5030B**
Prep Date/Time: **09/22/2022 06:00**
Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

Print Date: 10/13/2022 2:17:03PM

Method Blank

Blank ID: MB for HBN 1844635 [VXX/39262]
Blank Lab ID: 1689030

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683015, 1225683017, 1225683021, 1225683023

Results by **SW8260D**

Parameter	Results	LOQ/CL	DL	Units
1,1,1,2-Tetrachloroethane	0.250U	0.500	0.150	ug/L
1,1,1-Trichloroethane	0.500U	1.00	0.310	ug/L
1,1,2,2-Tetrachloroethane	0.250U	0.500	0.150	ug/L
1,1,2-Trichloroethane	0.200U	0.400	0.120	ug/L
1,1-Dichloroethane	0.500U	1.00	0.310	ug/L
1,1-Dichloroethene	0.500U	1.00	0.310	ug/L
1,1-Dichloropropene	0.500U	1.00	0.310	ug/L
1,2,3-Trichlorobenzene	0.500U	1.00	0.310	ug/L
1,2,3-Trichloropropane	0.500U	1.00	0.310	ug/L
1,2,4-Trichlorobenzene	0.500U	1.00	0.310	ug/L
1,2,4-Trimethylbenzene	0.500U	1.00	0.310	ug/L
1,2-Dibromo-3-chloropropane	5.00U	10.0	3.10	ug/L
1,2-Dibromoethane	0.0375U	0.0750	0.0180	ug/L
1,2-Dichlorobenzene	0.500U	1.00	0.310	ug/L
1,2-Dichloroethane	0.250U	0.500	0.200	ug/L
1,2-Dichloropropane	0.500U	1.00	0.310	ug/L
1,3,5-Trimethylbenzene	0.500U	1.00	0.310	ug/L
1,3-Dichlorobenzene	0.500U	1.00	0.310	ug/L
1,3-Dichloropropane	0.250U	0.500	0.150	ug/L
1,4-Dichlorobenzene	0.250U	0.500	0.150	ug/L
2,2-Dichloropropane	0.500U	1.00	0.310	ug/L
2-Butanone (MEK)	5.00U	10.0	3.10	ug/L
2-Chlorotoluene	0.500U	1.00	0.310	ug/L
2-Hexanone	5.00U	10.0	3.10	ug/L
4-Chlorotoluene	0.500U	1.00	0.310	ug/L
4-Isopropyltoluene	0.500U	1.00	0.310	ug/L
4-Methyl-2-pentanone (MIBK)	5.00U	10.0	3.10	ug/L
Benzene	0.200U	0.400	0.120	ug/L
Bromobenzene	0.500U	1.00	0.310	ug/L
Bromochloromethane	0.500U	1.00	0.310	ug/L
Bromodichloromethane	0.250U	0.500	0.150	ug/L
Bromoform	0.500U	1.00	0.310	ug/L
Bromomethane	3.00U	6.00	3.00	ug/L
Carbon disulfide	5.00U	10.0	3.10	ug/L
Carbon tetrachloride	0.500U	1.00	0.310	ug/L
Chlorobenzene	0.250U	0.500	0.150	ug/L
Chloroethane	0.500U	1.00	0.310	ug/L
Chloroform	0.500U	1.00	0.310	ug/L

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Method Blank

Blank ID: MB for HBN 1844635 [VXX/39262]
Blank Lab ID: 1689030

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683015, 1225683017, 1225683021, 1225683023

Results by **SW8260D**

Parameter	Results	LOQ/CL	DL	Units
Chloromethane	0.500U	1.00	0.310	ug/L
cis-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
cis-1,3-Dichloropropene	0.250U	0.500	0.150	ug/L
Dibromochloromethane	0.250U	0.500	0.150	ug/L
Dibromomethane	0.500U	1.00	0.310	ug/L
Dichlorodifluoromethane	0.500U	1.00	0.310	ug/L
Ethylbenzene	0.500U	1.00	0.310	ug/L
Freon-113	5.00U	10.0	3.10	ug/L
Hexachlorobutadiene	0.500U	1.00	0.310	ug/L
Isopropylbenzene (Cumene)	0.500U	1.00	0.310	ug/L
Methylene chloride	5.00U	10.0	3.10	ug/L
Methyl-t-butyl ether	5.00U	10.0	3.10	ug/L
Naphthalene	0.500U	1.00	0.310	ug/L
n-Butylbenzene	0.500U	1.00	0.310	ug/L
n-Propylbenzene	0.500U	1.00	0.310	ug/L
o-Xylene	0.500U	1.00	0.310	ug/L
P & M -Xylene	1.00U	2.00	0.620	ug/L
sec-Butylbenzene	0.500U	1.00	0.310	ug/L
Styrene	0.500U	1.00	0.310	ug/L
tert-Butylbenzene	0.500U	1.00	0.310	ug/L
Tetrachloroethene	0.500U	1.00	0.310	ug/L
Toluene	0.500U	1.00	0.310	ug/L
trans-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
trans-1,3-Dichloropropene	0.500U	1.00	0.310	ug/L
Trichloroethene	0.500U	1.00	0.310	ug/L
Trichlorofluoromethane	0.500U	1.00	0.310	ug/L
Vinyl acetate	5.00U	10.0	3.10	ug/L
Vinyl chloride	0.0750U	0.150	0.0500	ug/L
Xylenes (total)	1.50U	3.00	1.00	ug/L
Surrogates				
1,2-Dichloroethane-D4 (surr)	105	81-118		%
4-Bromofluorobenzene (surr)	95.7	85-114		%
Toluene-d8 (surr)	99.1	89-112		%

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Method Blank

Blank ID: MB for HBN 1844635 [VXX/39262]
Blank Lab ID: 1689030

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683015, 1225683017, 1225683021, 1225683023

Results by **SW8260D**

Parameter	Results	LOQ/CL	DL	Units

Batch Information

Analytical Batch: VMS22021
Analytical Method: SW8260D
Instrument: VPA 780/5975 GC/MS
Analyst: AZL
Analytical Date/Time: 9/28/2022 4:10:00PM

Prep Batch: VXX39262
Prep Method: SW5030B
Prep Date/Time: 9/28/2022 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/13/2022 2:17:06PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [VXX39262]
Blank Spike Lab ID: 1689031
Date Analyzed: 09/28/2022 16:25

Spike Duplicate ID: LCSD for HBN 1225683 [VXX39262]
Spike Duplicate Lab ID: 1689032
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683015, 1225683017, 1225683021, 1225683023

Results by **SW8260D**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	30	31.2	104	30	31.5	105	(78-124)	0.99	(< 20)
1,1,1-Trichloroethane	30	32.6	109	30	31.6	105	(74-131)	3.10	(< 20)
1,1,2,2-Tetrachloroethane	30	27.1	90	30	28.2	94	(71-121)	3.80	(< 20)
1,1,2-Trichloroethane	30	27.5	92	30	28.5	95	(80-119)	3.50	(< 20)
1,1-Dichloroethane	30	29.2	97	30	28.3	94	(77-125)	3.30	(< 20)
1,1-Dichloroethene	30	29.2	97	30	28.0	93	(71-131)	4.10	(< 20)
1,1-Dichloropropene	30	31.8	106	30	31.3	104	(79-125)	1.40	(< 20)
1,2,3-Trichlorobenzene	30	31.4	105	30	31.8	106	(69-129)	1.30	(< 20)
1,2,3-Trichloropropane	30	27.9	93	30	28.5	95	(73-122)	2.40	(< 20)
1,2,4-Trichlorobenzene	30	31.4	105	30	31.6	105	(69-130)	0.70	(< 20)
1,2,4-Trimethylbenzene	30	30.4	101	30	30.3	101	(79-124)	0.20	(< 20)
1,2-Dibromo-3-chloropropane	30	27.8	93	30	28.9	97	(62-128)	4.00	(< 20)
1,2-Dibromoethane	30	28.7	96	30	29.7	99	(77-121)	3.30	(< 20)
1,2-Dichlorobenzene	30	29.3	98	30	29.2	97	(80-119)	0.48	(< 20)
1,2-Dichloroethane	30	28.1	94	30	28.3	94	(73-128)	0.57	(< 20)
1,2-Dichloropropane	30	29.7	99	30	29.6	99	(78-122)	0.20	(< 20)
1,3,5-Trimethylbenzene	30	30.4	101	30	30.1	100	(75-124)	1.20	(< 20)
1,3-Dichlorobenzene	30	30.5	102	30	30.3	101	(80-119)	0.63	(< 20)
1,3-Dichloropropane	30	28.0	93	30	28.6	95	(80-119)	2.00	(< 20)
1,4-Dichlorobenzene	30	30.5	102	30	30.5	102	(79-118)	0.07	(< 20)
2,2-Dichloropropane	30	33.1	110	30	32.3	108	(60-139)	2.60	(< 20)
2-Butanone (MEK)	90	78.1	87	90	84.6	94	(56-143)	8.00	(< 20)
2-Chlorotoluene	30	29.4	98	30	29.2	98	(79-122)	0.55	(< 20)
2-Hexanone	90	82.9	92	90	88.6	99	(57-139)	6.70	(< 20)
4-Chlorotoluene	30	29.4	98	30	29.4	98	(78-122)	0.20	(< 20)
4-Isopropyltoluene	30	32.0	107	30	31.6	105	(77-127)	1.20	(< 20)
4-Methyl-2-pentanone (MIBK)	90	90.1	100	90	93.9	104	(67-130)	4.10	(< 20)
Benzene	30	29.9	100	30	29.8	99	(79-120)	0.50	(< 20)
Bromobenzene	30	30.4	101	30	30.3	101	(80-120)	0.26	(< 20)
Bromochloromethane	30	31.4	105	30	30.8	103	(78-123)	2.10	(< 20)
Bromodichloromethane	30	31.0	103	30	30.7	102	(79-125)	0.97	(< 20)
Bromoform	30	31.5	105	30	32.3	108	(66-130)	2.60	(< 20)
Bromomethane	30	26.8	89	30	26.9	90	(53-141)	0.37	(< 20)
Carbon disulfide	45	40.5	90	45	38.4	85	(64-133)	5.20	(< 20)

Print Date: 10/13/2022 2:17:08PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [VXX39262]
Blank Spike Lab ID: 1689031
Date Analyzed: 09/28/2022 16:25

Spike Duplicate ID: LCSD for HBN 1225683 [VXX39262]
Spike Duplicate Lab ID: 1689032
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683015, 1225683017, 1225683021, 1225683023

Results by **SW8260D**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Carbon tetrachloride	30	34.6	115	30	33.2	111	(72-136)	4.00	(< 20)
Chlorobenzene	30	29.9	100	30	29.7	99	(82-118)	0.67	(< 20)
Chloroethane	30	28.5	95	30	25.7	86	(60-138)	10.60	(< 20)
Chloroform	30	30.1	100	30	29.5	98	(79-124)	2.00	(< 20)
Chloromethane	30	28.8	96	30	27.6	92	(50-139)	4.40	(< 20)
cis-1,2-Dichloroethene	30	30.3	101	30	29.5	98	(78-123)	2.60	(< 20)
cis-1,3-Dichloropropene	30	30.5	102	30	31.1	104	(75-124)	2.10	(< 20)
Dibromochloromethane	30	30.8	103	30	31.5	105	(74-126)	2.30	(< 20)
Dibromomethane	30	29.1	97	30	29.9	100	(79-123)	2.80	(< 20)
Dichlorodifluoromethane	30	32.9	110	30	30.6	102	(32-152)	7.00	(< 20)
Ethylbenzene	30	31.4	105	30	31.0	103	(79-121)	1.50	(< 20)
Freon-113	45	46.3	103	45	44.4	99	(70-136)	4.30	(< 20)
Hexachlorobutadiene	30	33.9	113	30	33.8	113	(66-134)	0.47	(< 20)
Isopropylbenzene (Cumene)	30	31.6	105	30	30.9	103	(72-131)	2.10	(< 20)
Methylene chloride	30	30.0	100	30	29.4	98	(74-124)	2.10	(< 20)
Methyl-t-butyl ether	45	45.1	100	45	46.9	104	(71-124)	3.90	(< 20)
Naphthalene	30	31.2	104	30	31.6	105	(61-128)	1.40	(< 20)
n-Butylbenzene	30	31.8	106	30	31.1	104	(75-128)	2.30	(< 20)
n-Propylbenzene	30	29.9	100	30	29.3	98	(76-126)	2.10	(< 20)
o-Xylene	30	31.0	103	30	31.0	103	(78-122)	0.03	(< 20)
P & M -Xylene	60	62.6	104	60	61.9	103	(80-121)	1.10	(< 20)
sec-Butylbenzene	30	31.5	105	30	30.8	103	(77-126)	2.30	(< 20)
Styrene	30	31.4	105	30	31.3	104	(78-123)	0.32	(< 20)
tert-Butylbenzene	30	30.9	103	30	30.5	102	(78-124)	1.50	(< 20)
Tetrachloroethene	30	33.4	111	30	32.9	110	(74-129)	1.40	(< 20)
Toluene	30	29.3	98	30	28.9	96	(80-121)	1.40	(< 20)
trans-1,2-Dichloroethene	30	30.2	101	30	29.4	98	(75-124)	2.80	(< 20)
trans-1,3-Dichloropropene	30	30.5	102	30	31.5	105	(73-127)	3.10	(< 20)
Trichloroethene	30	31.3	104	30	30.6	102	(79-123)	2.00	(< 20)
Trichlorofluoromethane	30	33.5	112	30	27.6	92	(65-141)	19.40	(< 20)
Vinyl acetate	30	28.9	96	30	29.9	100	(54-146)	3.60	(< 20)
Vinyl chloride	30	29.8	99	30	27.7	92	(58-137)	7.30	(< 20)
Xylenes (total)	90	93.7	104	90	92.9	103	(79-121)	0.76	(< 20)

Print Date: 10/13/2022 2:17:08PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [VXX39262]
Blank Spike Lab ID: 1689031
Date Analyzed: 09/28/2022 16:25

Spike Duplicate ID: LCSD for HBN 1225683 [VXX39262]
Spike Duplicate Lab ID: 1689032
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683015, 1225683017, 1225683021, 1225683023

Results by **SW8260D**

	Blank Spike (%)			Spike Duplicate (%)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Surrogates									
1,2-Dichloroethane-D4 (surr)	30		98	30		99	(81-118)	0.41	
4-Bromofluorobenzene (surr)	30		94	30		96	(85-114)	1.90	
Toluene-d8 (surr)	30		100	30		100	(89-112)	0.43	

Batch Information

Analytical Batch: **VMS22021**
Analytical Method: **SW8260D**
Instrument: **VPA 780/5975 GC/MS**
Analyst: **AZL**

Prep Batch: **VXX39262**
Prep Method: **SW5030B**
Prep Date/Time: **09/28/2022 06:00**
Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

Print Date: 10/13/2022 2:17:08PM

Method Blank

Blank ID: MB for HBN 1844839 [VXX/39265]
Blank Lab ID: 1689180

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683026, 1225683027, 1225683028

Results by **SW8260D**

Parameter	Results	LOQ/CL	DL	Units
1,1,1,2-Tetrachloroethane	0.250U	0.500	0.150	ug/L
1,1,1-Trichloroethane	0.500U	1.00	0.310	ug/L
1,1,2,2-Tetrachloroethane	0.250U	0.500	0.150	ug/L
1,1,2-Trichloroethane	0.200U	0.400	0.120	ug/L
1,1-Dichloroethane	0.500U	1.00	0.310	ug/L
1,1-Dichloroethene	0.500U	1.00	0.310	ug/L
1,1-Dichloropropene	0.500U	1.00	0.310	ug/L
1,2,3-Trichlorobenzene	0.500U	1.00	0.310	ug/L
1,2,3-Trichloropropane	0.500U	1.00	0.310	ug/L
1,2,4-Trichlorobenzene	0.500U	1.00	0.310	ug/L
1,2,4-Trimethylbenzene	0.500U	1.00	0.310	ug/L
1,2-Dibromo-3-chloropropane	5.00U	10.0	3.10	ug/L
1,2-Dibromoethane	0.0375U	0.0750	0.0180	ug/L
1,2-Dichlorobenzene	0.500U	1.00	0.310	ug/L
1,2-Dichloroethane	0.250U	0.500	0.200	ug/L
1,2-Dichloropropane	0.500U	1.00	0.310	ug/L
1,3,5-Trimethylbenzene	0.500U	1.00	0.310	ug/L
1,3-Dichlorobenzene	0.500U	1.00	0.310	ug/L
1,3-Dichloropropane	0.250U	0.500	0.150	ug/L
1,4-Dichlorobenzene	0.250U	0.500	0.150	ug/L
2,2-Dichloropropane	0.500U	1.00	0.310	ug/L
2-Butanone (MEK)	5.00U	10.0	3.10	ug/L
2-Chlorotoluene	0.500U	1.00	0.310	ug/L
2-Hexanone	5.00U	10.0	3.10	ug/L
4-Chlorotoluene	0.500U	1.00	0.310	ug/L
4-Isopropyltoluene	0.500U	1.00	0.310	ug/L
4-Methyl-2-pentanone (MIBK)	5.00U	10.0	3.10	ug/L
Benzene	0.200U	0.400	0.120	ug/L
Bromobenzene	0.500U	1.00	0.310	ug/L
Bromochloromethane	0.500U	1.00	0.310	ug/L
Bromodichloromethane	0.250U	0.500	0.150	ug/L
Bromoform	0.500U	1.00	0.310	ug/L
Bromomethane	3.00U	6.00	3.00	ug/L
Carbon disulfide	5.00U	10.0	3.10	ug/L
Carbon tetrachloride	0.500U	1.00	0.310	ug/L
Chlorobenzene	0.250U	0.500	0.150	ug/L
Chloroethane	0.500U	1.00	0.310	ug/L
Chloroform	0.500U	1.00	0.310	ug/L

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Method Blank

Blank ID: MB for HBN 1844839 [VXX/39265]
Blank Lab ID: 1689180

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683026, 1225683027, 1225683028

Results by **SW8260D**

Parameter	Results	LOQ/CL	DL	Units
Chloromethane	0.500U	1.00	0.310	ug/L
cis-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
cis-1,3-Dichloropropene	0.250U	0.500	0.150	ug/L
Dibromochloromethane	0.250U	0.500	0.150	ug/L
Dibromomethane	0.500U	1.00	0.310	ug/L
Dichlorodifluoromethane	0.500U	1.00	0.310	ug/L
Ethylbenzene	0.500U	1.00	0.310	ug/L
Freon-113	5.00U	10.0	3.10	ug/L
Hexachlorobutadiene	0.500U	1.00	0.310	ug/L
Isopropylbenzene (Cumene)	0.500U	1.00	0.310	ug/L
Methylene chloride	5.00U	10.0	3.10	ug/L
Methyl-t-butyl ether	5.00U	10.0	3.10	ug/L
Naphthalene	0.500U	1.00	0.310	ug/L
n-Butylbenzene	0.500U	1.00	0.310	ug/L
n-Propylbenzene	0.500U	1.00	0.310	ug/L
o-Xylene	0.500U	1.00	0.310	ug/L
P & M -Xylene	1.00U	2.00	0.620	ug/L
sec-Butylbenzene	0.500U	1.00	0.310	ug/L
Styrene	0.500U	1.00	0.310	ug/L
tert-Butylbenzene	0.500U	1.00	0.310	ug/L
Tetrachloroethene	0.500U	1.00	0.310	ug/L
Toluene	0.500U	1.00	0.310	ug/L
trans-1,2-Dichloroethene	0.500U	1.00	0.310	ug/L
trans-1,3-Dichloropropene	0.500U	1.00	0.310	ug/L
Trichloroethene	0.500U	1.00	0.310	ug/L
Trichlorofluoromethane	0.500U	1.00	0.310	ug/L
Vinyl acetate	5.00U	10.0	3.10	ug/L
Vinyl chloride	0.0750U	0.150	0.0500	ug/L
Xylenes (total)	1.50U	3.00	1.00	ug/L
Surrogates				
1,2-Dichloroethane-D4 (surr)	106	81-118		%
4-Bromofluorobenzene (surr)	95.7	85-114		%
Toluene-d8 (surr)	97.6	89-112		%

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Method Blank

Blank ID: MB for HBN 1844839 [VXX/39265]
Blank Lab ID: 1689180

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683026, 1225683027, 1225683028

Results by **SW8260D**

Parameter	Results	LOQ/CL	DL	Units

Batch Information

Analytical Batch: VMS22024
Analytical Method: SW8260D
Instrument: VPA 780/5975 GC/MS
Analyst: AZL
Analytical Date/Time: 9/29/2022 3:16:00PM

Prep Batch: VXX39265
Prep Method: SW5030B
Prep Date/Time: 9/29/2022 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/13/2022 2:17:10PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [VXX39265]
Blank Spike Lab ID: 1689181
Date Analyzed: 09/29/2022 15:31

Spike Duplicate ID: LCSD for HBN 1225683 [VXX39265]
Spike Duplicate Lab ID: 1689182
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683026, 1225683027, 1225683028

Results by **SW8260D**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	30	31.0	103	30	30.6	102	(78-124)	1.10	(< 20)
1,1,1-Trichloroethane	30	33.0	110	30	31.9	106	(74-131)	3.30	(< 20)
1,1,2,2-Tetrachloroethane	30	27.3	91	30	27.3	91	(71-121)	0.26	(< 20)
1,1,2-Trichloroethane	30	27.8	93	30	27.8	93	(80-119)	0.04	(< 20)
1,1-Dichloroethane	30	29.6	99	30	29.0	97	(77-125)	2.30	(< 20)
1,1-Dichloroethene	30	32.3	108	30	30.7	102	(71-131)	5.30	(< 20)
1,1-Dichloropropene	30	33.3	111	30	32.0	107	(79-125)	3.90	(< 20)
1,2,3-Trichlorobenzene	30	30.9	103	30	30.9	103	(69-129)	0.16	(< 20)
1,2,3-Trichloropropane	30	28.2	94	30	28.2	94	(73-122)	0.32	(< 20)
1,2,4-Trichlorobenzene	30	31.3	104	30	31.0	103	(69-130)	0.80	(< 20)
1,2,4-Trimethylbenzene	30	30.5	102	30	29.8	99	(79-124)	2.20	(< 20)
1,2-Dibromo-3-chloropropane	30	27.3	91	30	27.5	92	(62-128)	0.80	(< 20)
1,2-Dibromoethane	30	28.9	96	30	29.1	97	(77-121)	0.59	(< 20)
1,2-Dichlorobenzene	30	28.9	96	30	28.6	95	(80-119)	1.10	(< 20)
1,2-Dichloroethane	30	27.9	93	30	28.2	94	(73-128)	1.20	(< 20)
1,2-Dichloropropane	30	29.7	99	30	29.9	100	(78-122)	0.70	(< 20)
1,3,5-Trimethylbenzene	30	30.4	101	30	29.8	99	(75-124)	2.10	(< 20)
1,3-Dichlorobenzene	30	30.5	102	30	30.1	100	(80-119)	1.60	(< 20)
1,3-Dichloropropane	30	28.2	94	30	28.1	94	(80-119)	0.18	(< 20)
1,4-Dichlorobenzene	30	30.6	102	30	29.7	99	(79-118)	2.80	(< 20)
2,2-Dichloropropane	30	34.0	113	30	33.0	110	(60-139)	2.90	(< 20)
2-Butanone (MEK)	90	81.4	90	90	81.7	91	(56-143)	0.42	(< 20)
2-Chlorotoluene	30	29.8	100	30	29.0	97	(79-122)	3.00	(< 20)
2-Hexanone	90	83.3	93	90	83.9	93	(57-139)	0.72	(< 20)
4-Chlorotoluene	30	29.8	99	30	28.9	96	(78-122)	3.20	(< 20)
4-Isopropyltoluene	30	31.9	106	30	31.2	104	(77-127)	2.20	(< 20)
4-Methyl-2-pentanone (MIBK)	90	89.7	100	90	91.2	101	(67-130)	1.60	(< 20)
Benzene	30	31.0	103	30	30.3	101	(79-120)	2.30	(< 20)
Bromobenzene	30	30.5	102	30	30.0	100	(80-120)	1.60	(< 20)
Bromochloromethane	30	30.9	103	30	30.9	103	(78-123)	0.23	(< 20)
Bromodichloromethane	30	30.5	102	30	30.5	102	(79-125)	0.10	(< 20)
Bromoform	30	30.9	103	30	31.1	104	(66-130)	0.42	(< 20)
Bromomethane	30	24.7	82	30	25.5	85	(53-141)	3.30	(< 20)
Carbon disulfide	45	47.0	105	45	44.5	99	(64-133)	5.60	(< 20)

Print Date: 10/13/2022 2:17:12PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [VXX39265]
Blank Spike Lab ID: 1689181
Date Analyzed: 09/29/2022 15:31

Spike Duplicate ID: LCSD for HBN 1225683 [VXX39265]
Spike Duplicate Lab ID: 1689182
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683026, 1225683027, 1225683028

Results by **SW8260D**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Carbon tetrachloride	30	35.0	117	30	33.7	112	(72-136)	3.60	(< 20)
Chlorobenzene	30	30.0	100	30	29.5	98	(82-118)	1.70	(< 20)
Chloroethane	30	26.5	88	30	24.8	83	(60-138)	6.30	(< 20)
Chloroform	30	29.8	99	30	29.6	99	(79-124)	0.74	(< 20)
Chloromethane	30	26.7	89	30	25.3	84	(50-139)	5.50	(< 20)
cis-1,2-Dichloroethene	30	30.1	100	30	30.0	100	(78-123)	0.30	(< 20)
cis-1,3-Dichloropropene	30	30.9	103	30	30.9	103	(75-124)	0.00	(< 20)
Dibromochloromethane	30	30.4	101	30	30.6	102	(74-126)	0.52	(< 20)
Dibromomethane	30	29.4	98	30	29.0	97	(79-123)	1.20	(< 20)
Dichlorodifluoromethane	30	28.2	94	30	26.1	87	(32-152)	7.60	(< 20)
Ethylbenzene	30	31.8	106	30	30.9	103	(79-121)	2.60	(< 20)
Freon-113	45	50.3	112	45	47.7	106	(70-136)	5.30	(< 20)
Hexachlorobutadiene	30	34.3	114	30	33.5	112	(66-134)	2.10	(< 20)
Isopropylbenzene (Cumene)	30	31.3	104	30	30.5	102	(72-131)	2.50	(< 20)
Methylene chloride	30	30.3	101	30	29.9	100	(74-124)	1.20	(< 20)
Methyl-t-butyl ether	45	47.1	105	45	47.5	105	(71-124)	0.74	(< 20)
Naphthalene	30	30.1	100	30	30.4	101	(61-128)	1.20	(< 20)
n-Butylbenzene	30	31.8	106	30	30.8	103	(75-128)	3.30	(< 20)
n-Propylbenzene	30	30.1	100	30	29.2	97	(76-126)	3.10	(< 20)
o-Xylene	30	30.8	103	30	30.3	101	(78-122)	1.70	(< 20)
P & M -Xylene	60	61.9	103	60	60.6	101	(80-121)	2.10	(< 20)
sec-Butylbenzene	30	31.5	105	30	30.5	102	(77-126)	3.30	(< 20)
Styrene	30	31.1	104	30	30.8	103	(78-123)	0.78	(< 20)
tert-Butylbenzene	30	31.5	105	30	30.2	101	(78-124)	4.10	(< 20)
Tetrachloroethene	30	34.0	113	30	32.8	109	(74-129)	3.70	(< 20)
Toluene	30	29.4	98	30	28.7	96	(80-121)	2.40	(< 20)
trans-1,2-Dichloroethene	30	31.5	105	30	30.5	102	(75-124)	3.30	(< 20)
trans-1,3-Dichloropropene	30	30.8	103	30	31.0	103	(73-127)	0.87	(< 20)
Trichloroethene	30	31.8	106	30	31.0	103	(79-123)	2.40	(< 20)
Trichlorofluoromethane	30	31.1	104	30	28.8	96	(65-141)	7.80	(< 20)
Vinyl acetate	30	29.1	97	30	29.1	97	(54-146)	0.10	(< 20)
Vinyl chloride	30	27.4	91	30	25.6	86	(58-137)	6.50	(< 20)
Xylenes (total)	90	92.7	103	90	90.9	101	(79-121)	2.00	(< 20)

Print Date: 10/13/2022 2:17:12PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [VXX39265]
Blank Spike Lab ID: 1689181
Date Analyzed: 09/29/2022 15:31

Spike Duplicate ID: LCSD for HBN 1225683 [VXX39265]
Spike Duplicate Lab ID: 1689182
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683026, 1225683027, 1225683028

Results by **SW8260D**

	Blank Spike (%)			Spike Duplicate (%)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Surrogates									
1,2-Dichloroethane-D4 (surr)	30		96	30		97	(81-118)	1.10	
4-Bromofluorobenzene (surr)	30		98	30		96	(85-114)	1.60	
Toluene-d8 (surr)	30		100	30		100	(89-112)	0.53	

Batch Information

Analytical Batch: **VMS22024**
Analytical Method: **SW8260D**
Instrument: **VPA 780/5975 GC/MS**
Analyst: **AZL**

Prep Batch: **VXX39265**
Prep Method: **SW5030B**
Prep Date/Time: **09/29/2022 06:00**
Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1844315 (WFI/3006)
Blank Lab ID: 1688144

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683015, 1225683017, 1225683021, 1225683023, 1225683026, 1225683027, 1225683028

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.100U	0.200	0.0500	mg/L
Nitrite-N	0.100U	0.200	0.0500	mg/L
Total Nitrate/Nitrite-N	0.100U	0.200	0.0500	mg/L

Batch Information

Analytical Batch: WFI3006
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EBH
Analytical Date/Time: 9/27/2022 3:01:58PM

Print Date: 10/13/2022 2:17:14PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [WFI3006]
Blank Spike Lab ID: 1688146
Date Analyzed: 09/27/2022 15:00

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683015, 1225683017, 1225683021, 1225683023, 1225683026, 1225683027, 1225683028

Results by **SM21 4500NO3-F**

	Blank Spike (mg/L)			
Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.64	106	(70-130)
Nitrite-N	2.5	2.59	103	(90-110)
Total Nitrate/Nitrite-N	5	5.23	105	(90-110)

Batch Information

Analytical Batch: **WFI3006**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **EBH**

Print Date: 10/13/2022 2:17:16PM

Matrix Spike Summary

Original Sample ID: 1225625010
MS Sample ID: 1688135 MS
MSD Sample ID: 1688136 MSD

QC for Samples:

Analysis Date: 09/27/2022 14:19
Analysis Date: 09/27/2022 14:21
Analysis Date: 09/27/2022 14:23
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Nitrate/Nitrite-N	1.46	5.00	6.27	96	5.00	6.57	102	90-110	4.70	(< 25)

Batch Information

Analytical Batch: WFI3006
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EBH
Analytical Date/Time: 9/27/2022 2:21:00PM

Print Date: 10/13/2022 2:17:17PM

Matrix Spike Summary

Original Sample ID: 1225708002 — Analysis Date: 09/27/2022 15:05
MS Sample ID: 1688137 MS — Analysis Date: 09/27/2022 15:07
MSD Sample ID: 1688138 MSD — Analysis Date: 09/27/2022 15:08
Matrix: Drinking Water

QC for Samples: 1225683015, 1225683017, 1225683021, 1225683023, 1225683026, 1225683027, 1225683028

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)				Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)		Spike	Result	Rec (%)		CL	RPD (%)	RPD CL
Total Nitrate/Nitrite-N	0.236	5.00	5.95	114	*	5.00	5.96	114	*	90-110	0.14	(< 25)

Batch Information

Analytical Batch: WFI3006
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EBH
Analytical Date/Time: 9/27/2022 3:07:00PM

Print Date: 10/13/2022 2:17:17PM

Method Blank

Blank ID: MB for HBN 1845107 [WXX/14499]
Blank Lab ID: 1689967

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683015, 1225683017, 1225683021, 1225683023, 1225683026, 1225683027, 1225683028

Results by **EPA 300.0**

Parameter	Results	LOQ/CL	DL	Units
Sulfate	0.100U	0.200	0.0500	mg/L

Batch Information

Analytical Batch: WIC6383
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: EBH
Analytical Date/Time: 10/4/2022 1:52:19PM

Prep Batch: WXX14499
Prep Method: METHOD
Prep Date/Time: 10/4/2022 1:00:00PM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Print Date: 10/13/2022 2:17:19PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [WXX14499]
Blank Spike Lab ID: 1689968
Date Analyzed: 10/04/2022 14:11

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683015, 1225683017, 1225683021, 1225683023, 1225683026, 1225683027, 1225683028

Results by **EPA 300.0**

	Blank Spike (mg/L)			
Parameter	Spike	Result	Rec (%)	CL
Sulfate	5	5.14	103	(90-110)

Batch Information

Analytical Batch: **WIC6383**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **EBH**

Prep Batch: **WXX14499**
Prep Method: **METHOD**
Prep Date/Time: **10/04/2022 13:00**
Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/13/2022 2:17:21PM

Matrix Spike Summary

Original Sample ID: 1689962
MS Sample ID: 1689970 MS
MSD Sample ID:

Analysis Date: 10/04/2022 20:12
Analysis Date: 10/04/2022 21:09
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683015, 1225683017, 1225683021, 1225683023, 1225683026, 1225683027, 1225683028

Results by **EPA 300.0**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Sulfate	1.04	5.00	5.99	99				90-110		

Batch Information

Analytical Batch: WIC6383
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: EBH
Analytical Date/Time: 10/4/2022 9:09:16PM

Prep Batch: WXX14499
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 10/4/2022 1:00:00PM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 10/13/2022 2:17:22PM

Matrix Spike Summary

Original Sample ID: 1225855004
MS Sample ID: 1689986 MS
MSD Sample ID:

Analysis Date: 10/04/2022 22:44
Analysis Date: 10/04/2022 23:03
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683015, 1225683017, 1225683021, 1225683023, 1225683026, 1225683027, 1225683028

Results by **EPA 300.0**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Sulfate	5.86	5.00	10.4	91				90-110		

Batch Information

Analytical Batch: WIC6383
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: EBH
Analytical Date/Time: 10/4/2022 11:03:16PM

Prep Batch: WXX14499
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 10/4/2022 1:00:00PM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 10/13/2022 2:17:22PM

Method Blank

Blank ID: MB for HBN 1843951 [XXX/47014]
Blank Lab ID: 1686604

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683015, 1225683016, 1225683017

Results by **8270D SIM LV (PAH)**

Parameter	Results	LOQ/CL	DL	Units
1-Methylnaphthalene	0.0175J	0.0500	0.0150	ug/L
2-Methylnaphthalene	0.0314J	0.0500	0.0150	ug/L
Acenaphthene	0.0250U	0.0500	0.0150	ug/L
Acenaphthylene	0.0250U	0.0500	0.0150	ug/L
Anthracene	0.0250U	0.0500	0.0150	ug/L
Benzo(a)Anthracene	0.0250U	0.0500	0.0150	ug/L
Benzo[a]pyrene	0.0100U	0.0200	0.00620	ug/L
Benzo[b]Fluoranthene	0.0250U	0.0500	0.0150	ug/L
Benzo[g,h,i]perylene	0.0250U	0.0500	0.0150	ug/L
Benzo[k]fluoranthene	0.0250U	0.0500	0.0150	ug/L
Chrysene	0.0250U	0.0500	0.0150	ug/L
Dibenzo[a,h]anthracene	0.0100U	0.0200	0.00620	ug/L
Fluoranthene	0.0156J	0.0500	0.0150	ug/L
Fluorene	0.0250U	0.0500	0.0150	ug/L
Indeno[1,2,3-c,d] pyrene	0.0250U	0.0500	0.0150	ug/L
Naphthalene	0.0500U	0.100	0.0310	ug/L
Phenanthrene	0.0359J	0.100	0.0310	ug/L
Pyrene	0.0250U	0.0500	0.0150	ug/L
Surrogates				
2-Methylnaphthalene-d10 (surr)	75.5	42-86		%
Fluoranthene-d10 (surr)	83	50-97		%

Batch Information

Analytical Batch: XMS13381
Analytical Method: 8270D SIM LV (PAH)
Instrument: Agilent GC 7890B/5977A SWA
Analyst: NGG
Analytical Date/Time: 9/27/2022 5:14:00PM

Prep Batch: XXX47014
Prep Method: SW3535A
Prep Date/Time: 9/20/2022 10:30:14AM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:17:24PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [XXX47014]
Blank Spike Lab ID: 1686605
Date Analyzed: 09/27/2022 17:35

Spike Duplicate ID: LCSD for HBN 1225683 [XXX47014]
Spike Duplicate Lab ID: 1686606
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683015, 1225683016, 1225683017

Results by **8270D SIM LV (PAH)**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1-Methylnaphthalene	2	1.40	70	2	1.32	66	(41-115)	5.20	(< 20)
2-Methylnaphthalene	2	1.39	70	2	1.31	66	(39-114)	6.30	(< 20)
Acenaphthene	2	1.62	81	2	1.54	77	(48-114)	5.50	(< 20)
Acenaphthylene	2	1.46	73	2	1.39	69	(35-121)	5.20	(< 20)
Anthracene	2	1.69	84	2	1.58	79	(53-119)	6.60	(< 20)
Benzo(a)Anthracene	2	1.52	76	2	1.39	70	(59-120)	9.10	(< 20)
Benzo[a]pyrene	2	1.69	85	2	1.55	77	(53-120)	8.90	(< 20)
Benzo[b]Fluoranthene	2	1.60	80	2	1.49	74	(53-126)	7.40	(< 20)
Benzo[g,h,i]perylene	2	1.92	96	2	1.76	88	(44-128)	8.80	(< 20)
Benzo[k]fluoranthene	2	1.75	87	2	1.57	78	(54-125)	10.90	(< 20)
Chrysene	2	1.64	82	2	1.50	75	(57-120)	9.20	(< 20)
Dibenzo[a,h]anthracene	2	1.92	96	2	1.75	88	(44-131)	8.90	(< 20)
Fluoranthene	2	1.55	77	2	1.43	72	(58-120)	7.90	(< 20)
Fluorene	2	1.68	84	2	1.62	81	(50-118)	3.80	(< 20)
Indeno[1,2,3-c,d] pyrene	2	1.85	92	2	1.69	85	(48-130)	8.80	(< 20)
Naphthalene	2	1.30	65	2	1.22	61	(43-114)	5.90	(< 20)
Phenanthrene	2	1.69	84	2	1.60	80	(53-115)	5.30	(< 20)
Pyrene	2	1.59	80	2	1.49	74	(53-121)	6.90	(< 20)
Surrogates									
2-Methylnaphthalene-d10 (surr)	2		75	2		75	(42-86)	0.57	
Fluoranthene-d10 (surr)	2		82	2		80	(50-97)	2.40	

Batch Information

Analytical Batch: **XMS13381**
Analytical Method: **8270D SIM LV (PAH)**
Instrument: **Agilent GC 7890B/5977A SWA**
Analyst: **NGG**

Prep Batch: **XXX47014**
Prep Method: **SW3535A**
Prep Date/Time: **09/20/2022 10:30**
Spike Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL

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Method Blank

Blank ID: MB for HBN 1844025 [XXX/47025]
Blank Lab ID: 1686936

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683021, 1225683023, 1225683026, 1225683027, 1225683028

Results by **8270D SIM LV (PAH)**

Parameter	Results	LOQ/CL	DL	Units
1-Methylnaphthalene	0.0250U	0.0500	0.0150	ug/L
2-Methylnaphthalene	0.0214J	0.0500	0.0150	ug/L
Acenaphthene	0.0250U	0.0500	0.0150	ug/L
Acenaphthylene	0.0250U	0.0500	0.0150	ug/L
Anthracene	0.0250U	0.0500	0.0150	ug/L
Benzo(a)Anthracene	0.0250U	0.0500	0.0150	ug/L
Benzo[a]pyrene	0.0100U	0.0200	0.00620	ug/L
Benzo[b]Fluoranthene	0.0250U	0.0500	0.0150	ug/L
Benzo[g,h,i]perylene	0.0250U	0.0500	0.0150	ug/L
Benzo[k]fluoranthene	0.0250U	0.0500	0.0150	ug/L
Chrysene	0.0250U	0.0500	0.0150	ug/L
Dibenzo[a,h]anthracene	0.0100U	0.0200	0.00620	ug/L
Fluoranthene	0.0250U	0.0500	0.0150	ug/L
Fluorene	0.0250U	0.0500	0.0150	ug/L
Indeno[1,2,3-c,d] pyrene	0.0250U	0.0500	0.0150	ug/L
Naphthalene	0.0500U	0.100	0.0310	ug/L
Phenanthrene	0.0500U	0.100	0.0310	ug/L
Pyrene	0.0250U	0.0500	0.0150	ug/L
Surrogates				
2-Methylnaphthalene-d10 (surr)	73	42-86		%
Fluoranthene-d10 (surr)	79.4	50-97		%

Batch Information

Analytical Batch: XMS13388
Analytical Method: 8270D SIM LV (PAH)
Instrument: Agilent GC 7890B/5977A SWA
Analyst: NGG
Analytical Date/Time: 10/4/2022 11:51:00AM

Prep Batch: XXX47025
Prep Method: SW3535A
Prep Date/Time: 9/21/2022 10:20:22AM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:17:28PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [XXX47025]
Blank Spike Lab ID: 1686937
Date Analyzed: 10/04/2022 12:11

Spike Duplicate ID: LCSD for HBN 1225683 [XXX47025]
Spike Duplicate Lab ID: 1686938
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683021, 1225683023, 1225683026, 1225683027, 1225683028

Results by **8270D SIM LV (PAH)**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1-Methylnaphthalene	2	1.41	70	2	1.35	68	(41-115)	3.80	(< 20)
2-Methylnaphthalene	2	1.39	70	2	1.35	68	(39-114)	3.20	(< 20)
Acenaphthene	2	1.59	80	2	1.50	75	(48-114)	6.20	(< 20)
Acenaphthylene	2	1.47	73	2	1.42	71	(35-121)	3.30	(< 20)
Anthracene	2	1.63	81	2	1.55	78	(53-119)	4.50	(< 20)
Benzo(a)Anthracene	2	1.50	75	2	1.34	67	(59-120)	11.30	(< 20)
Benzo[a]pyrene	2	1.68	84	2	1.50	75	(53-120)	11.10	(< 20)
Benzo[b]Fluoranthene	2	1.56	78	2	1.40	70	(53-126)	10.60	(< 20)
Benzo[g,h,i]perylene	2	1.87	94	2	1.74	87	(44-128)	7.20	(< 20)
Benzo[k]fluoranthene	2	1.74	87	2	1.57	79	(54-125)	10.10	(< 20)
Chrysene	2	1.61	81	2	1.46	73	(57-120)	10.10	(< 20)
Dibenzo[a,h]anthracene	2	1.90	95	2	1.72	86	(44-131)	10.20	(< 20)
Fluoranthene	2	1.55	78	2	1.42	71	(58-120)	8.90	(< 20)
Fluorene	2	1.60	80	2	1.55	78	(50-118)	2.60	(< 20)
Indeno[1,2,3-c,d] pyrene	2	1.82	91	2	1.66	83	(48-130)	9.00	(< 20)
Naphthalene	2	1.34	67	2	1.30	65	(43-114)	3.10	(< 20)
Phenanthrene	2	1.61	80	2	1.55	77	(53-115)	3.80	(< 20)
Pyrene	2	1.56	78	2	1.43	72	(53-121)	8.60	(< 20)
Surrogates									
2-Methylnaphthalene-d10 (surr)	2		77	2		76	(42-86)	1.40	
Fluoranthene-d10 (surr)	2		81	2		78	(50-97)	3.80	

Batch Information

Analytical Batch: **XMS13388**
Analytical Method: **8270D SIM LV (PAH)**
Instrument: **Agilent GC 7890B/5977A SWA**
Analyst: **NGG**

Prep Batch: **XXX47025**
Prep Method: **SW3535A**
Prep Date/Time: **09/21/2022 10:20**
Spike Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL

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Method Blank

Blank ID: MB for HBN 1844097 [XXX/47033]
Blank Lab ID: 1687258

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683002, 1225683003, 1225683004, 1225683005, 1225683006, 1225683007, 1225683008, 1225683009, 1225683010, 1225683011, 1225683012, 1225683013, 1225683014

Results by **AK102**

Parameter	Results	LOQ/CL	DL	Units
Diesel Range Organics	0.322J	0.600	0.200	mg/L
Surrogates				
5a Androstane (surr)	80.6	60-120		%

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK102
Instrument: Agilent 7890B R
Analyst: HMW
Analytical Date/Time: 9/25/2022 12:31:00AM

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 9/22/2022 4:48:17PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Analytical Batch: XFC16353
Analytical Method: AK102
Instrument: Agilent 7890B R
Analyst: HMW
Analytical Date/Time: 9/28/2022 11:05:00AM

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 9/22/2022 4:48:17PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [XXX47033]
Blank Spike Lab ID: 1687259
Date Analyzed: 09/25/2022 00:41

Spike Duplicate ID: LCSD for HBN 1225683 [XXX47033]
Spike Duplicate Lab ID: 1687260
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683002, 1225683003, 1225683004, 1225683005, 1225683006, 1225683007, 1225683008, 1225683009, 1225683010, 1225683011, 1225683012, 1225683013, 1225683014

Results by **AK102**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	20	17.3	87	20	19.0	95	(75-125)	9.40	(< 20)
Surrogates									
5a Androstane (surr)	0.4		78	0.4		82	(60-120)	5.00	

Batch Information

Analytical Batch: **XFC16351**
Analytical Method: **AK102**
Instrument: **Agilent 7890B R**
Analyst: **HMW**

Prep Batch: **XXX47033**
Prep Method: **SW3520C**
Prep Date/Time: **09/22/2022 16:48**
Spike Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL

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Method Blank

Blank ID: MB for HBN 1844097 [XXX/47033]
Blank Lab ID: 1687258

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683002, 1225683003, 1225683004, 1225683005, 1225683006, 1225683007, 1225683008, 1225683009, 1225683010, 1225683011, 1225683012, 1225683013, 1225683014

Results by **AK103**

Parameter	Results	LOQ/CL	DL	Units
Residual Range Organics	1.06*	0.500	0.200	mg/L
Surrogates				
n-Triacontane-d62 (surr)	78.5	60-120		%

Batch Information

Analytical Batch: XFC16351
Analytical Method: AK103
Instrument: Agilent 7890B R
Analyst: HMW
Analytical Date/Time: 9/25/2022 12:31:00AM

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 9/22/2022 4:48:17PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Analytical Batch: XFC16353
Analytical Method: AK103
Instrument: Agilent 7890B R
Analyst: HMW
Analytical Date/Time: 9/28/2022 11:05:00AM

Prep Batch: XXX47033
Prep Method: SW3520C
Prep Date/Time: 9/22/2022 4:48:17PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [XXX47033]
Blank Spike Lab ID: 1687259
Date Analyzed: 09/25/2022 00:41

Spike Duplicate ID: LCSD for HBN 1225683 [XXX47033]
Spike Duplicate Lab ID: 1687260
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683002, 1225683003, 1225683004, 1225683005, 1225683006, 1225683007, 1225683008, 1225683009, 1225683010, 1225683011, 1225683012, 1225683013, 1225683014

Results by **AK103**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Residual Range Organics	20	16.9	85	20	19.5	98	(60-120)	14.30	(< 20)
Surrogates									
n-Triacontane-d62 (surr)	0.4		78	0.4		85	(60-120)	8.20	

Batch Information

Analytical Batch: **XFC16351**
Analytical Method: **AK103**
Instrument: **Agilent 7890B R**
Analyst: **HMW**

Prep Batch: **XXX47033**
Prep Method: **SW3520C**
Prep Date/Time: **09/22/2022 16:48**
Spike Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL

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Method Blank

Blank ID: MB for HBN 1844324 [XXX/47057]
Blank Lab ID: 1688190

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683015, 1225683017, 1225683018, 1225683019, 1225683020, 1225683021, 1225683022, 1225683025

Results by **AK102**

Parameter	Results	LOQ/CL	DL	Units
Diesel Range Organics	0.515J	0.600	0.200	mg/L
Surrogates				
5a Androstane (surr)	75.9	60-120		%

Batch Information

Analytical Batch: XFC16356
Analytical Method: AK102
Instrument: Agilent 7890B R
Analyst: HMW
Analytical Date/Time: 9/30/2022 12:32:00AM

Prep Batch: XXX47057
Prep Method: SW3520C
Prep Date/Time: 9/27/2022 4:52:53PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:17:38PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [XXX47057]
Blank Spike Lab ID: 1688191
Date Analyzed: 09/30/2022 00:42

Spike Duplicate ID: LCSD for HBN 1225683 [XXX47057]
Spike Duplicate Lab ID: 1688192
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683015, 1225683017, 1225683018, 1225683019, 1225683020, 1225683021, 1225683022, 1225683025

Results by **AK102**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	20	16.4	82	20	16.6	83	(75-125)	1.10	(< 20)
Surrogates									
5a Androstane (surr)	0.4		73	0.4		72	(60-120)	0.48	

Batch Information

Analytical Batch: **XFC16356**
Analytical Method: **AK102**
Instrument: **Agilent 7890B R**
Analyst: **HMW**

Prep Batch: **XXX47057**
Prep Method: **SW3520C**
Prep Date/Time: **09/27/2022 16:52**
Spike Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL

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Method Blank

Blank ID: MB for HBN 1844324 [XXX/47057]
Blank Lab ID: 1688190

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683015, 1225683017, 1225683018, 1225683019, 1225683020, 1225683021, 1225683022, 1225683025

Results by **AK103**

Parameter	Results	LOQ/CL	DL	Units
Residual Range Organics	0.512*	0.500	0.200	mg/L
Surrogates				
n-Triacontane-d62 (surr)	82.2	60-120		%

Batch Information

Analytical Batch: XFC16356
Analytical Method: AK103
Instrument: Agilent 7890B R
Analyst: HMW
Analytical Date/Time: 9/30/2022 12:32:00AM

Prep Batch: XXX47057
Prep Method: SW3520C
Prep Date/Time: 9/27/2022 4:52:53PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:17:41PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [XXX47057]
Blank Spike Lab ID: 1688191
Date Analyzed: 09/30/2022 00:42

Spike Duplicate ID: LCSD for HBN 1225683 [XXX47057]
Spike Duplicate Lab ID: 1688192
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683015, 1225683017, 1225683018, 1225683019, 1225683020, 1225683021, 1225683022, 1225683025

Results by **AK103**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Residual Range Organics	20	15.8	79	20	16.3	82	(60-120)	3.00	(< 20)
Surrogates									
n-Triacontane-d62 (surr)	0.4		75	0.4		75	(60-120)	0.12	

Batch Information

Analytical Batch: **XFC16356**
Analytical Method: **AK103**
Instrument: **Agilent 7890B R**
Analyst: **HMW**

Prep Batch: **XXX47057**
Prep Method: **SW3520C**
Prep Date/Time: **09/27/2022 16:52**
Spike Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL

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Method Blank

Blank ID: MB for HBN 1844363 [XXX/47067]
Blank Lab ID: 1688396

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683026, 1225683027, 1225683028

Results by **AK102**

Parameter	Results	LOQ/CL	DL	Units
Diesel Range Organics	0.387J	0.600	0.200	mg/L
Surrogates				
5a Androstane (surr)	89.8	60-120		%

Batch Information

Analytical Batch: XFC16358
Analytical Method: AK102
Instrument: Agilent 7890B R
Analyst: MAP
Analytical Date/Time: 9/30/2022 10:47:00PM

Prep Batch: XXX47067
Prep Method: SW3520C
Prep Date/Time: 9/28/2022 3:35:07PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:17:44PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [XXX47067]
Blank Spike Lab ID: 1688397
Date Analyzed: 09/30/2022 22:57

Spike Duplicate ID: LCSD for HBN 1225683 [XXX47067]
Spike Duplicate Lab ID: 1688398
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683026, 1225683027, 1225683028

Results by **AK102**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	20	19.3	97	20	18.2	91	(75-125)	6.10	(< 20)
Surrogates									
5a Androstane (surr)	0.4		96	0.4		93	(60-120)	2.80	

Batch Information

Analytical Batch: **XFC16358**
Analytical Method: **AK102**
Instrument: **Agilent 7890B R**
Analyst: **MAP**

Prep Batch: **XXX47067**
Prep Method: **SW3520C**
Prep Date/Time: **09/28/2022 15:35**
Spike Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Method Blank

Blank ID: MB for HBN 1844363 [XXX/47067]
Blank Lab ID: 1688396

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225683026, 1225683027, 1225683028

Results by **AK103**

Parameter	Results	LOQ/CL	DL	Units
Residual Range Organics	0.677*	0.500	0.200	mg/L
Surrogates				
n-Triacontane-d62 (surr)	106	60-120		%

Batch Information

Analytical Batch: XFC16358
Analytical Method: AK103
Instrument: Agilent 7890B R
Analyst: MAP
Analytical Date/Time: 9/30/2022 10:47:00PM

Prep Batch: XXX47067
Prep Method: SW3520C
Prep Date/Time: 9/28/2022 3:35:07PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 10/13/2022 2:17:48PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225683 [XXX47067]
Blank Spike Lab ID: 1688397
Date Analyzed: 09/30/2022 22:57

Spike Duplicate ID: LCSD for HBN 1225683 [XXX47067]
Spike Duplicate Lab ID: 1688398
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225683026, 1225683027, 1225683028

Results by **AK103**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Residual Range Organics	20	20.9	105	20	21.3	107	(60-120)	1.70	(< 20)
Surrogates									
n-Triacontane-d62 (surr)	0.4		96	0.4		98	(60-120)	2.60	

Batch Information

Analytical Batch: **XFC16358**
Analytical Method: **AK103**
Instrument: **Agilent 7890B R**
Analyst: **MAP**

Prep Batch: **XXX47067**
Prep Method: **SW3520C**
Prep Date/Time: **09/28/2022 15:35**
Spike Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL

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1225683

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CHAIN OF CUSTODY RECORD

profile #352162 PBV2

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Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT: DELTA WESTERN / FARALLON CONSULTING

CONTACT: FARALLON CONSULTING PHONE #:
STUART BROWN 425-606-7463
PAUL GRABAU 360-319-9257

PROJECT NAME: DW Dillingham GW Monitoring

PROJECT/PWSID/PERMIT#: 1010-004

REPORTS TO: STUART BROWN, PAUL GRABAU

E-MAIL: sbrown@farallonconsulting.com
Profile #: pgrabau@farallonconsulting.com

INVOICE TO: DELTA WESTERN

QUOTE #:

P.O. #:

Section 3 — Preservative: HCl, HCl, HCl, HCl, None, None, H_2SO_4

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	GRO/8 TEX Ac101	VOCS SW8260	BTEX only SW8021	DRO/RRO Ac102/3	PAHs SW8270 SIM	Sulfate E300.0	Nitrate/Nitrite SM4500				REMARKS/LOC ID
1AI	TRIP BLANK	09/10/22	0800	AQ	9	—	3	3	3								LAB BOXED
2AE	MW21-091022	↓	1105	AQ	5	G	3			2							
3AE	MW9-091022	↓	1235	AQ	5	G	3			2							
4AE	TW2-091022	↓	1500	AQ	5	G	3			2							
5AE	B3MW-091122	09/11/22	1340	AQ	5	G	3			2							
6AE	B1MW-091122	↓	1535	AQ	5	G	3			2							
7AE	B1MW-091122-D	↓	1535	AQ	5	G	3			2							
8AE	B2MW-091122	↓	1755	AQ	5	G	3			2							
9AE	MW13-091222	09/12/22	1205	AQ	5	G	3			2							
10AE	MW12-091222	↓	1345	AQ	5	G	3			2							

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Section 5

Relinquished By:	Date	Time	Received By:
(1) [signature]	09/15/22	16:50	ACE Air Cargo AWB# 3237384
(2)			
(3)			
(4)	9/16/22	16:30	[signature] CSS

Section 4

DOD Project? Yes No

Cooler ID:

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 1) 2.8 D62 2) 3.7 D62 3) 3.1 D62 or Ambient [ ]

Chain of Custody Seal: (Circle) IF INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [X] CSS Commerical Delivery [X]

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CHAIN OF CUSTODY RECORD

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Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT: ~ See page 1/3 ~

CONTACT: PHONE #:

PROJECT NAME: PROJECT/ PWSID/ PERMIT#:

REPORTS TO: E-MAIL: Profile #:

INVOICE TO: QUOTE #: P.O. #:

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	GRO/BTEX AK101 (HCl)	VOCs SW8260 (HCl)	BTEX only SW8021 (HCl)	DRO/RRO AK102/3 (HCl)	PAH SW8270SIM (None)	SulfATE E300.0 (None)	Nitrate/Nitrite SM4500 (H2SO4)				REMARKS/LOC ID
11AE	MW5R-091222	09/12/22	1655	AQ	5	G	3			2							
12AE	MW15-091322	09/13/22	1030	AQ	5	G	3			2							
13AE	MW22-091322	↓	1240	AQ	5	G	3			2							
14AE	MW14-091322	↓	1425	AQ	5	G	3			2							
15AL	MW27-091422	09/14/22	1025	AQ	12	G	3	3		2	2	1	1				
16AE	SEP-091422	↓	1040	AQ	5	G			3		2						
17AL	MW10-091422	↓	1155	AQ	12	G	3	3		2	2	1	1				
18AE	MW19-091422	↓	1340	AQ	5	G	3			2							
19AE	MW23-091422	↓	1500	AQ	5	G	3			2							
20AE	MW24-091422	↓	1645	AQ	5	G	3			2							

Section 3 — Preservative

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Section 4

DOD Project? Yes No

Data Deliverable Requirements:

Cooler ID:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 1) 2.8 D62 2) 3.7 D62 3) 3.1 D62 or Ambient [ ]

Chain of Custody Seal: (Circle) IF INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [ ] Commerical Delivery [X]

Section 5

Relinquished By:	Date	Time	Received By:
(1)			
(2)			
(3)			
(4)	9/16/22	16:30	Received For Laboratory By: CS

SGS North America Inc.
CHAIN OF CUSTODY RECORD

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Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT: See page 1/3

CONTACT: PHONE #:

PROJECT NAME: PROJECT: PWSID: PERMIT#:

REPORTS TO: E-MAIL: Profile #:

INVOICE TO: QUOTE #: P.O. #:

Section 3 — Preservative: HCl, HCl, HCl, HCl, None, None, HSO4

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	GRO/BTEX AK101	VOCs SW8260	BTEX only SW8021	DRO/RRO AK102/3	PAHs SW8270SIM	Sulfate E300.0	Nitrate/Nitrite SM4500				REMARKS/LOC ID
21 AL	MW11R-091422	09/14/22	1815	AQ	12	G	3	3		2	2	1	1				
22 AE	MW11R-091422-D	↓	1815	AQ	5	G	3			2							
23 AJ	MW16-091422		2000	AQ	12	G	3	3		2	2	1	1				
24 AC	MW16-091422-D	↓	2000	AQ	5	G	3			2							
25 AE	MW25-091522	09/15/22	1020	AQ	5	G	3			2							
26 AK	MW26-091522	↓	1210	AQ	11	G	3	3		2	1	1	1				DRO/RRO Unpreserved
27 AK	MW29-091522		1340	AQ	11	G	3	3		2	1	1	1				DRO/RRO Unpreserved
28 AJ	MW30-091522	↓	1500	AQ	10	G	3	3		1	1	1	1				DRO/RRO Unpreserved

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Section 5

Relinquished By:	Date	Time	Received By:
Relinquished By: (1)			
Relinquished By: (2)			
Relinquished By: (3)			
Relinquished By: (4)	9/16/22	16:30	Received For Laboratory By: CSS

Section 4

DOD Project? Yes No

Cooler ID:

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 1) 2.8 D62 2) 3.7 D62 3) 3.1 D62 or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [ ] Commerical Delivery [X]

e-Sample Receipt Form

SGS Workorder #: 1225683 | 1225683

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
Chain of Custody / Temperature Requirements		*Note:* Temperature and COC seal information is found on the chain of custody form
DOD only: Did all sample coolers have a corresponding COC?	N/A	
If <0°C, were sample containers ice free?	N/A	
Note containers received with ice:		
Identify any containers received at non-compliant temperature: *(Use form FS-0029 if more space is needed)*		
Holding Time / Documentation / Sample Condition Requirements		*Note:* Refer to form F-083 "Sample Guide" for specific holding times and sample containers.
Were samples received within analytical holding time?	Yes	
Do sample labels match COC? Record discrepancies. ***Note:*** *If information on containers differs from COC, default to COC information for login. If times differ <1hr, record details & login per COC.*	No	Did not receive containers for DRO analysis on sample 23 and 24.
Were analytical requests clear? *(i.e. method is specified for analyses with multiple option for method (Eg, BTEX 8021 vs 8260, Metals 6020 vs 200.8)*	Yes	
Were proper containers (type/mass/volume/preservative)used? Note: Exemption for metals analysis by 200.8/6020 in water.	No	Received non preserved containers for DRO analysis on samples 26, 27, and 28.
Volatile Analysis Requirements (VOC, GRO, LL-Hg, etc.)		
Were all soil VOAs received with a corresponding % solids container?	N/A	
Were Trip Blanks (e.g., VOAs, LL-Hg) in cooler with samples?	Yes	
Were all water VOA vials free of headspace (e.g., bubbles ≤ 6mm)?	Yes	
Were all soil VOAs field extracted with Methanol+BFB?	N/A	

Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.

Additional notes (if applicable):

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1225683001-A	HCL to pH < 2	OK	1225683010-A	HCL to pH < 2	OK
1225683001-B	HCL to pH < 2	OK	1225683010-B	HCL to pH < 2	OK
1225683001-C	HCL to pH < 2	OK	1225683010-C	HCL to pH < 2	OK
1225683001-D	HCL to pH < 2	OK	1225683010-D	HCL to pH < 2	OK
1225683001-E	HCL to pH < 2	OK	1225683010-E	HCL to pH < 2	OK
1225683001-F	HCL to pH < 2	OK	1225683011-A	HCL to pH < 2	OK
1225683001-G	HCL to pH < 2	OK	1225683011-B	HCL to pH < 2	OK
1225683001-H	HCL to pH < 2	OK	1225683011-C	HCL to pH < 2	OK
1225683001-I	HCL to pH < 2	OK	1225683011-D	HCL to pH < 2	OK
1225683002-A	HCL to pH < 2	OK	1225683011-E	HCL to pH < 2	OK
1225683002-B	HCL to pH < 2	OK	1225683012-A	HCL to pH < 2	OK
1225683002-C	HCL to pH < 2	OK	1225683012-B	HCL to pH < 2	OK
1225683002-D	HCL to pH < 2	OK	1225683012-C	HCL to pH < 2	OK
1225683002-E	HCL to pH < 2	OK	1225683012-D	HCL to pH < 2	OK
1225683003-A	HCL to pH < 2	OK	1225683012-E	HCL to pH < 2	OK
1225683003-B	HCL to pH < 2	OK	1225683013-A	HCL to pH < 2	OK
1225683003-C	HCL to pH < 2	OK	1225683013-B	HCL to pH < 2	OK
1225683003-D	HCL to pH < 2	OK	1225683013-C	HCL to pH < 2	OK
1225683003-E	HCL to pH < 2	OK	1225683013-D	HCL to pH < 2	OK
1225683004-A	HCL to pH < 2	OK	1225683013-E	HCL to pH < 2	OK
1225683004-B	HCL to pH < 2	OK	1225683014-A	HCL to pH < 2	OK
1225683004-C	HCL to pH < 2	OK	1225683014-B	HCL to pH < 2	OK
1225683004-D	HCL to pH < 2	OK	1225683014-C	HCL to pH < 2	OK
1225683004-E	HCL to pH < 2	OK	1225683014-D	HCL to pH < 2	OK
1225683005-A	HCL to pH < 2	OK	1225683014-E	HCL to pH < 2	OK
1225683005-B	HCL to pH < 2	OK	1225683014-F	HCL to pH < 2	OK
1225683005-C	HCL to pH < 2	OK	1225683014-G	HCL to pH < 2	OK
1225683005-D	HCL to pH < 2	OK	1225683014-H	HCL to pH < 2	OK
1225683005-E	HCL to pH < 2	OK	1225683014-I	HCL to pH < 2	OK
1225683006-A	HCL to pH < 2	OK	1225683015-A	HCL to pH < 2	OK
1225683006-B	HCL to pH < 2	OK	1225683015-B	HCL to pH < 2	OK
1225683006-C	HCL to pH < 2	OK	1225683015-C	HCL to pH < 2	OK
1225683006-D	HCL to pH < 2	OK	1225683015-D	HCL to pH < 2	OK
1225683006-E	HCL to pH < 2	OK	1225683015-E	HCL to pH < 2	OK
1225683007-A	HCL to pH < 2	OK	1225683015-F	HCL to pH < 2	OK
1225683007-B	HCL to pH < 2	OK	1225683015-G	HCL to pH < 2	OK
1225683007-C	HCL to pH < 2	OK	1225683015-H	HCL to pH < 2	OK
1225683007-D	HCL to pH < 2	OK	1225683015-I	No Preservative Required	OK
1225683007-E	HCL to pH < 2	OK	1225683015-J	No Preservative Required	OK
1225683008-A	HCL to pH < 2	OK	1225683015-K	No Preservative Required	OK
1225683008-B	HCL to pH < 2	OK	1225683015-L	H2SO4 to pH < 2	OK
1225683008-C	HCL to pH < 2	OK	1225683016-A	HCL to pH < 2	OK
1225683008-D	HCL to pH < 2	OK	1225683016-B	HCL to pH < 2	OK
1225683008-E	HCL to pH < 2	OK	1225683016-C	HCL to pH < 2	OK
1225683009-A	HCL to pH < 2	OK	1225683016-D	HCL to pH < 2	OK
1225683009-B	HCL to pH < 2	OK	1225683016-E	HCL to pH < 2	OK
1225683009-C	HCL to pH < 2	OK	1225683017-A	HCL to pH < 2	OK
1225683009-D	HCL to pH < 2	OK	1225683017-B	HCL to pH < 2	OK
1225683009-E	HCL to pH < 2	OK	1225683017-C	HCL to pH < 2	OK

Container Id	Preservative	Container Condition
1225683017-D	HCL to pH < 2	OK
1225683017-E	HCL to pH < 2	OK
1225683017-F	HCL to pH < 2	OK
1225683017-G	HCL to pH < 2	OK
1225683017-H	HCL to pH < 2	OK
1225683017-I	No Preservative Required	OK
1225683017-J	No Preservative Required	OK
1225683017-K	No Preservative Required	OK
1225683017-L	H2SO4 to pH < 2	OK
1225683018-A	HCL to pH < 2	OK
1225683018-B	HCL to pH < 2	OK
1225683018-C	HCL to pH < 2	OK
1225683018-D	HCL to pH < 2	OK
1225683018-E	HCL to pH < 2	OK
1225683019-A	HCL to pH < 2	OK
1225683019-B	HCL to pH < 2	OK
1225683019-C	HCL to pH < 2	OK
1225683019-D	HCL to pH < 2	OK
1225683019-E	HCL to pH < 2	OK
1225683020-A	HCL to pH < 2	OK
1225683020-B	HCL to pH < 2	OK
1225683020-C	HCL to pH < 2	OK
1225683020-D	HCL to pH < 2	OK
1225683020-E	HCL to pH < 2	OK
1225683021-A	HCL to pH < 2	OK
1225683021-B	HCL to pH < 2	OK
1225683021-C	HCL to pH < 2	OK
1225683021-D	HCL to pH < 2	OK
1225683021-E	HCL to pH < 2	OK
1225683021-F	HCL to pH < 2	OK
1225683021-G	HCL to pH < 2	OK
1225683021-H	HCL to pH < 2	OK
1225683021-I	No Preservative Required	OK
1225683021-J	No Preservative Required	OK
1225683021-K	No Preservative Required	OK
1225683021-L	H2SO4 to pH < 2	OK
1225683022-A	HCL to pH < 2	OK
1225683022-B	HCL to pH < 2	OK
1225683022-C	HCL to pH < 2	OK
1225683022-D	HCL to pH < 2	OK
1225683022-E	HCL to pH < 2	OK
1225683023-A	HCL to pH < 2	OK
1225683023-B	HCL to pH < 2	OK
1225683023-C	HCL to pH < 2	OK
1225683023-D	HCL to pH < 2	OK
1225683023-E	HCL to pH < 2	OK
1225683023-F	HCL to pH < 2	OK
1225683023-G	No Preservative Required	OK
1225683023-H	No Preservative Required	OK
1225683023-I	No Preservative Required	OK
1225683023-J	H2SO4 to pH < 2	OK
1225683024-A	HCL to pH < 2	OK
1225683024-B	HCL to pH < 2	OK
1225683024-C	HCL to pH < 2	OK
1225683025-A	HCL to pH < 2	OK
1225683025-B	HCL to pH < 2	OK
1225683025-C	HCL to pH < 2	OK
1225683025-D	HCL to pH < 2	OK
1225683025-E	HCL to pH < 2	OK
1225683026-A	HCL to pH < 2	OK
1225683026-B	HCL to pH < 2	OK
1225683026-C	HCL to pH < 2	OK
1225683026-D	HCL to pH < 2	OK
1225683026-E	HCL to pH < 2	OK
1225683026-F	HCL to pH < 2	OK
1225683026-G	No Preservative Required	OK
1225683026-H	No Preservative Required	OK
1225683026-I	No Preservative Required	OK
1225683026-J	No Preservative Required	OK
1225683026-K	H2SO4 to pH < 2	OK
1225683027-A	HCL to pH < 2	OK
1225683027-B	HCL to pH < 2	OK
1225683027-C	HCL to pH < 2	OK
1225683027-D	HCL to pH < 2	OK
1225683027-E	HCL to pH < 2	OK
1225683027-F	HCL to pH < 2	OK
1225683027-G	No Preservative Required	OK
1225683027-H	No Preservative Required	OK
1225683027-I	No Preservative Required	OK
1225683027-J	No Preservative Required	OK
1225683027-K	H2SO4 to pH < 2	OK
1225683028-A	HCL to pH < 2	OK
1225683028-B	HCL to pH < 2	OK
1225683028-C	HCL to pH < 2	OK
1225683028-D	HCL to pH < 2	OK
1225683028-E	HCL to pH < 2	OK
1225683028-F	HCL to pH < 2	OK
1225683028-G	No Preservative Required	OK
1225683028-H	No Preservative Required	OK
1225683028-I	No Preservative Required	OK
1225683028-J	H2SO4 to pH < 2	OK

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM - The container was received damaged.
FR - The container was received frozen and not usable for Bacteria or BOD analyses.
IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.
NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
QN - Insufficient sample quantity provided.

Laboratory Report of Analysis

To: Delta Western-Anchorage
1201 Cornwall Ave Suite 105
Bellingham, WA 98225
(360)527-0241

Report Number: **1225733**

Client Project: **DW Dillingham GW Monitoring**

Dear Paul Grabau,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

_____

Justin Nelson Date
Project Manager
Justin.Nelson@sgs.com

SGS North America Inc. 200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Case Narrative

SGS Client: **Delta Western-Anchorage**
SGS Project: **1225733**
Project Name/Site: **DW Dillingham GW Monitoring**
Project Contact: **Paul Grabau**

Refer to sample receipt form for information on sample condition.

MB for HBN 1844327 [XXX/47060] (1688201) MB

AK103- RRO is detect in the MB above the LOQ.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

Print Date: 09/30/2022 11:12:57AM

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
TNTC	Too Numerous To Count
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
MW20-091322	1225733001	09/13/2022	09/16/2022	Water (Surface, Eff., Ground)
MW6-091322	1225733002	09/13/2022	09/16/2022	Water (Surface, Eff., Ground)

Method	Method Description
AK101	AK101/8021 Combo.
SW8021B	AK101/8021 Combo.
AK102	DRO/RRO Low Volume Water
AK103	DRO/RRO Low Volume Water

Print Date: 09/30/2022 11:12:59AM

Detectable Results Summary

Client Sample ID: **MW20-091322**
Lab Sample ID: 1225733001

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.719	mg/L
	Residual Range Organics	1.20	mg/L
Volatile Fuels	Benzene	26.0	ug/L
	Ethylbenzene	2.41	ug/L
	Gasoline Range Organics	0.190	mg/L
	o-Xylene	1.87	ug/L
	P & M -Xylene	5.92	ug/L
	Xylenes (total)	7.79	ug/L

Client Sample ID: **MW6-091322**
Lab Sample ID: 1225733002

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	1.29	mg/L
	Residual Range Organics	1.78	mg/L
Volatile Fuels	Benzene	8.16	ug/L
	Gasoline Range Organics	0.0700J	mg/L

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Results of **MW20-091322**

Client Sample ID: **MW20-091322**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225733001
Lab Project ID: 1225733

Collection Date: 09/13/22 17:45
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.719		0.600	0.200	mg/L	1		09/28/22 21:34
Surrogates								
5a Androstane (surr)	75.1		50-150		%	1		09/28/22 21:34

Batch Information

Analytical Batch: XFC16355
Analytical Method: AK102
Analyst: MAP
Analytical Date/Time: 09/28/22 21:34
Container ID: 1225733001-D

Prep Batch: XXX47060
Prep Method: SW3520C
Prep Date/Time: 09/27/22 17:54
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1.20		0.500	0.200	mg/L	1		09/28/22 21:34
Surrogates								
n-Triacontane-d62 (surr)	79.8		50-150		%	1		09/28/22 21:34

Batch Information

Analytical Batch: XFC16355
Analytical Method: AK103
Analyst: MAP
Analytical Date/Time: 09/28/22 21:34
Container ID: 1225733001-D

Prep Batch: XXX47060
Prep Method: SW3520C
Prep Date/Time: 09/27/22 17:54
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 09/30/2022 11:13:02AM

J flagging is activated

Results of **MW20-091322**

Client Sample ID: **MW20-091322**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225733001
Lab Project ID: 1225733

Collection Date: 09/13/22 17:45
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.190		0.100	0.0450	mg/L	1		09/27/22 15:58
Surrogates								
4-Bromofluorobenzene (surr)	90.8		50-150		%	1		09/27/22 15:58

Batch Information

Analytical Batch: VFC16270
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/27/22 15:58
Container ID: 1225733001-B

Prep Batch: VXX39243
Prep Method: SW5030B
Prep Date/Time: 09/27/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	26.0		0.500	0.150	ug/L	1		09/26/22 18:30
Ethylbenzene	2.41		1.00	0.500	ug/L	1		09/26/22 18:30
o-Xylene	1.87		1.00	0.500	ug/L	1		09/26/22 18:30
P & M -Xylene	5.92		2.00	0.900	ug/L	1		09/26/22 18:30
Toluene	0.500	U	1.00	0.500	ug/L	1		09/26/22 18:30
Xylenes (total)	7.79		3.00	1.40	ug/L	1		09/26/22 18:30
Surrogates								
1,4-Difluorobenzene (surr)	84.8		77-115		%	1		09/26/22 18:30

Batch Information

Analytical Batch: VFC16268
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/26/22 18:30
Container ID: 1225733001-A

Prep Batch: VXX39235
Prep Method: SW5030B
Prep Date/Time: 09/26/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **MW6-091322**

Client Sample ID: **MW6-091322**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225733002
Lab Project ID: 1225733

Collection Date: 09/13/22 19:25
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1.29		0.600	0.200	mg/L	1		09/28/22 21:44
Surrogates								
5a Androstane (surr)	78		50-150		%	1		09/28/22 21:44

Batch Information

Analytical Batch: XFC16355
Analytical Method: AK102
Analyst: MAP
Analytical Date/Time: 09/28/22 21:44
Container ID: 1225733002-D

Prep Batch: XXX47060
Prep Method: SW3520C
Prep Date/Time: 09/27/22 17:54
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1.78		0.500	0.200	mg/L	1		09/28/22 21:44
Surrogates								
n-Triacontane-d62 (surr)	81.7		50-150		%	1		09/28/22 21:44

Batch Information

Analytical Batch: XFC16355
Analytical Method: AK103
Analyst: MAP
Analytical Date/Time: 09/28/22 21:44
Container ID: 1225733002-D

Prep Batch: XXX47060
Prep Method: SW3520C
Prep Date/Time: 09/27/22 17:54
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 09/30/2022 11:13:02AM

J flagging is activated

Results of **MW6-091322**

Client Sample ID: **MW6-091322**
Client Project ID: **DW Dillingham GW Monitoring**
Lab Sample ID: 1225733002
Lab Project ID: 1225733

Collection Date: 09/13/22 19:25
Received Date: 09/16/22 16:30
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0700	J	0.100	0.0450	mg/L	1		09/27/22 16:17
Surrogates								
4-Bromofluorobenzene (surr)	85.2		50-150		%	1		09/27/22 16:17

Batch Information

Analytical Batch: VFC16270
Analytical Method: AK101
Analyst: PHK
Analytical Date/Time: 09/27/22 16:17
Container ID: 1225733002-B

Prep Batch: VXX39243
Prep Method: SW5030B
Prep Date/Time: 09/27/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	8.16		0.500	0.150	ug/L	1		09/26/22 18:12
Ethylbenzene	0.500	U	1.00	0.500	ug/L	1		09/26/22 18:12
o-Xylene	0.500	U	1.00	0.500	ug/L	1		09/26/22 18:12
P & M -Xylene	1.00	U	2.00	0.900	ug/L	1		09/26/22 18:12
Toluene	0.500	U	1.00	0.500	ug/L	1		09/26/22 18:12
Xylenes (total)	1.50	U	3.00	1.40	ug/L	1		09/26/22 18:12
Surrogates								
1,4-Difluorobenzene (surr)	87.4		77-115		%	1		09/26/22 18:12

Batch Information

Analytical Batch: VFC16268
Analytical Method: SW8021B
Analyst: PHK
Analytical Date/Time: 09/26/22 18:12
Container ID: 1225733002-A

Prep Batch: VXX39235
Prep Method: SW5030B
Prep Date/Time: 09/26/22 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 09/30/2022 11:13:02AM

J flagging is activated

Method Blank

Blank ID: MB for HBN 1844282 [VXX/39235]
Blank Lab ID: 1688014

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225733001, 1225733002

Results by **SW8021B**

Parameter	Results	LOQ/CL	DL	Units
Benzene	0.250U	0.500	0.150	ug/L
Ethylbenzene	0.500U	1.00	0.500	ug/L
o-Xylene	0.500U	1.00	0.500	ug/L
P & M -Xylene	1.00U	2.00	0.900	ug/L
Toluene	0.500U	1.00	0.500	ug/L
Xylenes (total)	1.50U	3.00	1.40	ug/L
Surrogates				
1,4-Difluorobenzene (surr)	89.9	77-115		%

Batch Information

Analytical Batch: VFC16268
Analytical Method: SW8021B
Instrument: Agilent 7890 PID/FID
Analyst: PHK
Analytical Date/Time: 9/26/2022 12:34:00PM

Prep Batch: VXX39235
Prep Method: SW5030B
Prep Date/Time: 9/26/2022 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1225733 [VXX39235]
Blank Spike Lab ID: 1688015
Date Analyzed: 09/26/2022 13:10

Spike Duplicate ID: LCSD for HBN 1225733 [VXX39235]
Spike Duplicate Lab ID: 1688016
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225733001, 1225733002

Results by **SW8021B**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Benzene	100	105	105	100	113	113	(80-120)	7.70	(< 20)
Ethylbenzene	100	92.1	92	100	98.1	98	(75-125)	6.30	(< 20)
o-Xylene	100	87.7	88	100	92.2	92	(80-120)	5.00	(< 20)
P & M -Xylene	200	181	90	200	192	96	(75-130)	6.00	(< 20)
Toluene	100	98.6	99	100	107	107	(75-120)	7.80	(< 20)
Xylenes (total)	300	269	90	300	284	95	(79-121)	5.70	(< 20)
Surrogates									
1,4-Difluorobenzene (surr)	50		100	50		100	(77-115)	0.04	

Batch Information

Analytical Batch: **VFC16268**
Analytical Method: **SW8021B**
Instrument: **Agilent 7890 PID/FID**
Analyst: **PHK**

Prep Batch: **VXX39235**
Prep Method: **SW5030B**
Prep Date/Time: **09/26/2022 06:00**
Spike Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL

Print Date: 09/30/2022 11:13:06AM

Method Blank

Blank ID: MB for HBN 1844336 [VXX/39243]
Blank Lab ID: 1688268

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225733001, 1225733002

Results by **AK101**

Parameter	Results	LOQ/CL	DL	Units
Gasoline Range Organics	0.0500U	0.100	0.0450	mg/L
Surrogates				
4-Bromofluorobenzene (surr)	85.7	50-150		%

Batch Information

Analytical Batch: VFC16270
Analytical Method: AK101
Instrument: Agilent 7890A PID/FID
Analyst: PHK
Analytical Date/Time: 9/27/2022 12:37:00PM

Prep Batch: VXX39243
Prep Method: SW5030B
Prep Date/Time: 9/27/2022 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 09/30/2022 11:13:08AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225733 [VXX39243]
Blank Spike Lab ID: 1688271
Date Analyzed: 09/27/2022 13:33

Spike Duplicate ID: LCSD for HBN 1225733 [VXX39243]
Spike Duplicate Lab ID: 1688272
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225733001, 1225733002

Results by **AK101**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Gasoline Range Organics	1.00	1.05	105	1.00	1.05	105	(60-120)	0.38	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500		90	0.0500		88	(50-150)	2.70	

Batch Information

Analytical Batch: **VFC16270**
Analytical Method: **AK101**
Instrument: **Agilent 7890A PID/FID**
Analyst: **PHK**

Prep Batch: **VXX39243**
Prep Method: **SW5030B**
Prep Date/Time: **09/27/2022 06:00**
Spike Init Wt./Vol.: 0.0500 mg/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 0.0500 mg/L Extract Vol: 5 mL

Print Date: 09/30/2022 11:13:11AM

Method Blank

Blank ID: MB for HBN 1844327 [XXX/47060]
Blank Lab ID: 1688201

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225733001, 1225733002

Results by **AK102**

Parameter	Results	LOQ/CL	DL	Units
Diesel Range Organics	0.295J	0.600	0.200	mg/L
Surrogates				
5a Androstane (surr)	68.6	60-120		%

Batch Information

Analytical Batch: XFC16355
Analytical Method: AK102
Instrument: Agilent 7890B R
Analyst: MAP
Analytical Date/Time: 9/28/2022 5:22:00PM

Prep Batch: XXX47060
Prep Method: SW3520C
Prep Date/Time: 9/27/2022 5:54:54PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 09/30/2022 11:13:13AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225733 [XXX47060]
Blank Spike Lab ID: 1688202
Date Analyzed: 09/28/2022 17:32

Spike Duplicate ID: LCSD for HBN 1225733 [XXX47060]
Spike Duplicate Lab ID: 1688203
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225733001, 1225733002

Results by **AK102**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	20	18.3	91	20	16.1	80	(75-125)	12.70	(< 20)
Surrogates									
5a Androstane (surr)	0.4		86	0.4		73	(60-120)	15.90	

Batch Information

Analytical Batch: **XFC16355**
Analytical Method: **AK102**
Instrument: **Agilent 7890B R**
Analyst: **MAP**

Prep Batch: **XXX47060**
Prep Method: **SW3520C**
Prep Date/Time: **09/27/2022 17:54**
Spike Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL

Print Date: 09/30/2022 11:13:15AM

Method Blank

Blank ID: MB for HBN 1844327 [XXX/47060]
Blank Lab ID: 1688201

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1225733001, 1225733002

Results by **AK103**

Parameter	Results	LOQ/CL	DL	Units
Residual Range Organics	1.30*	0.500	0.200	mg/L
Surrogates				
n-Triacontane-d62 (surr)	81.5	60-120		%

Batch Information

Analytical Batch: XFC16355
Analytical Method: AK103
Instrument: Agilent 7890B R
Analyst: MAP
Analytical Date/Time: 9/28/2022 5:22:00PM

Prep Batch: XXX47060
Prep Method: SW3520C
Prep Date/Time: 9/27/2022 5:54:54PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 09/30/2022 11:13:17AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225733 [XXX47060]
Blank Spike Lab ID: 1688202
Date Analyzed: 09/28/2022 17:32

Spike Duplicate ID: LCSD for HBN 1225733 [XXX47060]
Spike Duplicate Lab ID: 1688203
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225733001, 1225733002

Results by **AK103**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Residual Range Organics	20	18.6	93	20	16.3	81	(60-120)	13.30	(< 20)
Surrogates									
n-Triacontane-d62 (surr)	0.4		84	0.4		72	(60-120)	16.00	

Batch Information

Analytical Batch: **XFC16355**
Analytical Method: **AK103**
Instrument: **Agilent 7890B R**
Analyst: **MAP**

Prep Batch: **XXX47060**
Prep Method: **SW3520C**
Prep Date/Time: **09/27/2022 17:54**
Spike Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL

Print Date: 09/30/2022 11:13:19AM

1225733

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CHAIN OF CUSTODY RECORD

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Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Page 1 of 1

Section 1

CLIENT: DELTA WESTERN / FARALLON CONSULTING

CONTACT: FARALLON CONSULT. STUART BROWN, PAUL GRABAU

PHONE #: (425) 606-7463, (360) 319-9257

PROJECT NAME: DW DILLINGHAM GW Monitoring

PROJECT/ PWSID/ PERMIT#: 1010-004

REPORTS TO: STUART BROWN, PAUL GRABAU

E-MAIL: sbrown@farallonconsulting.com

Profile #: pgrabau@farallonconsulting.com

INVOICE TO: DELTA WESTERN

QUOTE #:

P.O. #:

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	GRO/BTEX AK101	DRO/RRO AK102/3									REMARKS/LOC ID
							HCl	HCl									
1AE	MW20-091322	09/13/22	1745	AQ	5	G	3	2									
2AE	MW6-091322	09/13/22	1925	AQ	5	G	3	2									

Analysis*

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Section 3 Preservative

Section 4 DOD Project? Yes No

Data Deliverable Requirements:

Cooler ID:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 2.1 D62 or Ambient [ ]

Chain of Custody Seal: (Circle) IE INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [ ] Commerical Delivery [X]

Section 5

Relinquished By:	Date	Time	Received By:
(1)	09/15/22	1450	AGE AIRCARGO AWB# 3238384
(2)			
(3)			
(4)	9/16/22	16:30	Received For Laboratory By: CJS

http://www.sgs.com/terms-and-conditions

F083-Blank_COC_20181228

e-Sample Receipt Form

SGS Workorder #: 1225733 | 1225733

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
Chain of Custody / Temperature Requirements		*Note:* Temperature and COC seal information is found on the chain of custody form
DOD only: Did all sample coolers have a corresponding COC?	N/A	
If <0°C, were sample containers ice free?	N/A	
Note containers received with ice:		
Identify any containers received at non-compliant temperature: *(Use form FS-0029 if more space is needed)*		
Holding Time / Documentation / Sample Condition Requirements		*Note:* Refer to form F-083 "Sample Guide" for specific holding times and sample containers.
Were samples received within analytical holding time?	Yes	
Do sample labels match COC? Record discrepancies. *Note: If information on containers differs from COC, default to COC information for login. If times differ <1hr, record details & login per COC.*	No	Samples on hold per client.
Were analytical requests clear? *(i.e. method is specified for analyses with multiple option for method (Eg, BTEX 8021 vs 8260, Metals 6020 vs 200.8)*	Yes	
Were proper containers (type/mass/volume/preservative)used? Note: Exemption for metals analysis by 200.8/6020 in water.	Yes	
Volatile Analysis Requirements (VOC, GRO, LL-Hg, etc.)		
Were all soil VOAs received with a corresponding % solids container?	N/A	
Were Trip Blanks (e.g., VOAs, LL-Hg) in cooler with samples?	No	
Were all water VOA vials free of headspace (e.g., bubbles ≤ 6mm)?	Yes	
Were all soil VOAs field extracted with Methanol+BFB?	N/A	

Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.

Additional notes (if applicable):

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1225733001-A	HCL to pH < 2	OK			
1225733001-B	HCL to pH < 2	OK			
1225733001-C	HCL to pH < 2	OK			
1225733001-D	HCL to pH < 2	OK			
1225733001-E	HCL to pH < 2	OK			
1225733002-A	HCL to pH < 2	OK			
1225733002-B	HCL to pH < 2	OK			
1225733002-C	HCL to pH < 2	OK			
1225733002-D	HCL to pH < 2	OK			
1225733002-E	HCL to pH < 2	OK			

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM - The container was received damaged.
FR - The container was received frozen and not usable for Bacteria or BOD analyses.
IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.
NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
QN - Insufficient sample quantity provided.

APPENDIX C
LABORATORY DATA REVIEW CHECKLISTS AND TABLE B1

2022 GROUNDWATER MONITORING REPORT
Delta Western Dillingham
Dillingham, Alaska

Farallon PN: 1010-004

ADEC Contaminated Sites Program Laboratory Data Review Checklist

Completed By:	Jeanette Mullin	**CS Site Name:**	Dillingham Auto and Delta Western Tank Farm	**Lab Name:**	SGS North America Inc.
Title:	Environmental Data Manager	**ADEC File No.:**	2540.38.017/2540.26.003	**Lab Report No.:**	1225683
Consulting Firm:	Farallon Consulting, L.L.C.	**Hazard ID No.:**	23487 and 25770	**Lab Report Date:**	10/13/2022

Note: *Any N/A or No box checked must have an explanation in the comments box.*

1. **Laboratory**

   a. Did an ADEC Contaminated Sites Laboratory Approval Program (CS-LAP) approved laboratory receive and perform all of the submitted sample analyses?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses CS-LAP approved?
   Yes ☐ No ☐ N/A ☒
   Comments: No samples were transferred to another lab.

2. **Chain of Custody (CoC)**

   a. Is the CoC information completed, signed, and dated (including released/received by)?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. Were the correct analyses requested?
   Yes ☒ No ☐ N/A ☐
   Analyses requested: AK101, AK102, AK103, EPA 8021B, EPA 8260D, EPA 8270D/SIM, EPA 300.0, and SM 4500NO3-F
   Comments: Click or tap here to enter text.

3. **Laboratory Sample Receipt Documentation**

   a. Is the sample/cooler temperature documented and within range at receipt (0° to 6° C)?
   Yes ☒ No ☐ N/A ☐
   Cooler temperature(s): 2.8° C, 3.7° C, and 3.1° C

Sample temperature(s): Click or tap here to enter text.
Comments: Click or tap here to enter text.

b. Is the sample preservation acceptable – acidified waters, methanol preserved soil (GRO, BTEX, VOCs, etc.)?
Yes ☐ No ☒ N/A ☐
Comments: Non-preserved containers were received for AK102 and AK103 analyses for samples MW26-091522, MW29-091522, and MW30-091522. The results associated with these analyses have been qualified as shown in Table 1.

c. Is the sample condition documented – broken, leaking, zero headspace (VOA vials); canister vacuum/pressure checked and no open valves, etc.?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.?
Yes ☒ No ☐ N/A ☐
Comments: The non-preserved containers received for AK102 and AK103 analyses for samples MW26-091522, MW29-091522, and MW30-091522 were documented by the lab. Containers were also not received for AK102 and AK103 analyses for sample MW16-091422 and documented by the lab even though these analyses were requested on the CoC. The lab was unable to perform AK102 and AK103 analyses for sample MW16-091422.

e. Is the data quality or usability affected?
Yes ☒ No ☐ N/A ☐
Comments: Select data are qualified as shown in Table 1.

4. Case Narrative

a. Is the case narrative present and understandable?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

b. Are there discrepancies, errors, or QC failures identified by the lab?
Yes ☒ No ☐ N/A ☐
Comments: Select data are qualified as shown in Table 1 based on QC failures identified in the case narrative and described in subsequent sections.

c. Were all the corrective actions documented?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

d. What is the effect on data quality/usability according to the case narrative?
Comments: Select data are qualified as shown in Table 1 based on QC failures.

5. Sample Results

a. Are the correct analyses performed/reported as requested on CoC?
Yes ☐ No ☒ N/A ☐
Comments: All analyses were conducted as requested except for AK102 and AK103 analyses for sample MW16-091422 as containers were not provided for this sample as noted in Section 3.d. above.

b. Are all applicable holding times met?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

c. Are all soils reported on a dry weight basis?
Yes ☐ No ☐ N/A ☒
Comments: No soil samples were analyzed in this delivery group.

d. Are the reported limits of quantitation (LoQ) or limits of detections (LOD), or reporting limits (RL) less than the Cleanup Level or the action level for the project?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

e. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: No data was qualified based on the responses in this section. No AK102 and AK103 analytical results were obtained for sample MW16-091422.

6. QC Samples

a. Method Blank

i. Was one method blank reported per matrix, analysis, and 20 samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Are all method blank results less than LOQ (or RL)?
Yes ☐ No ☒
Comments: RRO was detected in all three of the method blanks associated with this delivery group at concentrations exceeding the LOQ. The LOQ was 0.500 mg/l in each method blank and detected concentrations of RRO in these method blanks ranged from 0.512 to 1.06 mg/l. Data have been qualified as shown in Table 1. DRO, 1-methylnaphthalene, 2-methylnaphthalene, fluoranthene, and

phenanthrene were detected in various method blanks at concentrations less than the LOQ. Sample results associated with these method blanks where these analytes were detected at concentrations less than the LOQ are reported at the LOQ and qualified as non-detects as shown in Table 1.

iii. If above LoQ or RL, what samples are affected?
Comments: The samples affected by RRO being detected in all method blanks at concentrations exceeding the LOQ include: MW9-091022, TW2-091022, MW22-091322, MW11R-091422, MW26-091522, and MW30-091522.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☒ No ☐ N/A ☐
Comments: See Table 1 for a summary of the affected samples.

v. Data quality or usability affected?
Yes ☒ No ☐ N/A ☐
Comments: Select data are qualified based on method blank contamination as shown in Table 1.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
Yes ☐ No ☒ N/A ☐
Comments: Duplicate analyses (LCSD) were not conducted for Method 4500NO3-F and Method 300.0.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
Yes ☒ No ☐ N/A ☐
Comments:

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or

sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: Not applicable as no percent recoveries or RPD were out of control limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: No samples were qualified as all percent recoveries and RPDs were within control limits.

vii. Is the data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: No samples required qualification as noted above.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – Are one MS/MSD reported per matrix, analysis and 20 samples?
Yes ☐ No ☒ N/A ☐
Comments: No MS/MSDs were performed for Methods AK101, AK102, AK103, 8021B, 8260D, and Method 8270D.

ii. Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples?
Yes ☐ No ☒ N/A ☐
Comments: Only two MS (and no MSD) were performed for Method 300.0.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?
Yes ☐ No ☒ N/A ☐
Comments: The percent recoveries of total nitrate/nitrite in one of the MS and MSDs performed for Method 4500NO3-F exceeded the upper control limits; however, the MS/MSD was performed on a non-project sample and the results are not applicable to project samples.

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.
Yes ☒ No ☐ N/A ☐

Comments: Click or tap here to enter text.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: No samples are affected as the Method 4500NO3-F MS/MSD where the percent recovery exceeded the upper control limits was performed on a non-project sample and the results are not applicable to project samples.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: No project samples were impacted.

vii. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: No samples are qualified based on MS/MSD results.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC, and laboratory samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)
Yes ☐ No ☒ N/A ☐
Comments: Surrogate recoveries exceeded upper control limits or were below the lower control limits for multiple samples for various analytical methods due to apparent matrix interference. Table 1 provides a summary of surrogate recoveries out of control limits and the qualification of sample results.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?
Yes ☒ No ☐ N/A ☐
Comments: Table 1 provides a summary of data qualified based on surrogate recoveries being outside of control limits.

iv. Is the data quality or usability affected?
Yes ☒ No ☐ N/A ☐
Comments: Table 1 summarizes the data that were qualified based on surrogate recoveries that were outside of control limits.

e. Trip Blanks

i. Is one trip blank reported per matrix, analysis, and for each cooler containing volatile samples? Yes ☒ No ☐ N/A ☐
Comments: One trip blank was provided in the cooler that contained all of the samples for volatile analyses.

ii. Are all results less than LoQ or RL?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iii. If above LoQ or RL, what samples are affected?
Comments: All trip blank results were less than the LOQ (no analytes were detected in the trip blanks).

iv. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: No analytes were detected in the trip blank.

f. Field Duplicate

i. Are one field duplicate submitted per matrix, analysis, and 10 project samples?
Yes ☐ No ☒ N/A ☐
Comments: No field duplicates were collected for Method 8260D, Method 8270D/SIM, Method 4500NO3-F, or Method 300.0.

ii. Was the duplicate submitted blind to lab?
Yes ☐ No ☒ N/A ☐
Comments: Duplicates were identified with a “D” appended to the well name in the sample ID.

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water or air, 50% soil)

$$RPD\ (\%) = \left| \frac{R_1 - R_2}{\left(\frac{R_1 + R_2}{2}\right)} \right| X\ 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Is the data quality or usability affected? (Explain)

Yes ☒ No ☐ N/A ☐
Comments: All duplicate RPDs were within recommended objectives (30% for water). Where results were less than 5x the LOQ, the absolute

difference between the sample and duplicate was compared to 1x the LOQ and considered to pass the RPD criteria if less than 1x the LOQ.

iv. Is the data quality or usability affected? (Explain)
Yes ☐ No ☒ N/A ☐
Comments: All duplicate RPDs were within recommended objectives.

g. Decontamination or Equipment Blanks

i. Were decontamination or equipment blanks collected?
Yes ☐ No ☒ N/A ☐
Comments: No decontamination or equipment blanks were collected as part of this delivery group.

ii. Are all results less than LoQ or RL?
Yes ☒ No ☐ N/A ☒
Comments: No decontamination or equipment blanks were collected as part of this delivery group.

iii. If above LoQ or RL, specify what samples are affected.
Comments: Click or tap here to enter text.

iv. Are data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: No decontamination or equipment blanks were collected as part of this delivery group.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Are they defined and appropriate?
Yes ☐ No ☐ N/A ☒
Comments: No other data qualifiers were applied to the data outside of the qualifications noted in the earlier sections above.

ADEC Contaminated Sites Program Laboratory Data Review Checklist

Completed By:	Jeanette Mullin	**CS Site Name:**	Dillingham Auto and Delta Western Tank Farm	**Lab Name:**	SGS North America Inc.
Title:	Environmental Data Manager	**ADEC File No.:**	2540.38.017/2540.26.003	**Lab Report No.:**	1225733
Consulting Firm:	Farallon Consulting, L.L.C.	**Hazard ID No.:**	23487 and 25770	**Lab Report Date:**	9/30/2022

Note: *Any N/A or No box checked must have an explanation in the comments box.*

1. **Laboratory**

   a. Did an ADEC Contaminated Sites Laboratory Approval Program (CS-LAP) approved laboratory receive and perform all of the submitted sample analyses?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses CS-LAP approved?
   Yes ☐ No ☐ N/A ☒
   Comments: No samples were transferred to another lab.

2. **Chain of Custody (CoC)**

   a. Is the CoC information completed, signed, and dated (including released/received by)?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. Were the correct analyses requested?
   Yes ☒ No ☐ N/A ☐
   Analyses requested: AK101, AK102, AK103, and EPA 8021B.
   Comments: Click or tap here to enter text.

3. **Laboratory Sample Receipt Documentation**

   a. Is the sample/cooler temperature documented and within range at receipt (0° to 6° C)?
   Yes ☒ No ☐ N/A ☐
   Cooler temperature(s): 2.1° C
   Sample temperature(s): Click or tap here to enter text.

Comments: Click or tap here to enter text.

b. Is the sample preservation acceptable – acidified waters, methanol preserved soil (GRO, BTEX, VOCs, etc.)?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

c. Is the sample condition documented – broken, leaking, zero headspace (VOA vials); canister vacuum/pressure checked and no open valves, etc.?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.?
Yes ☒ No ☐ N/A ☐
Comments: No discrepancies noted. The lab noted that the samples were placed on hold.

e. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: No data qualifications needed.

4. Case Narrative

a. Is the case narrative present and understandable?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

b. Are there discrepancies, errors, or QC failures identified by the lab?
Yes ☒ No ☐ N/A ☐
Comments: Select data are qualified as shown in Table 1 based on QC failures identified in the case narrative and described in subsequent sections.

c. Were all the corrective actions documented?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

d. What is the effect on data quality/usability according to the case narrative?
Comments: Select data are qualified as shown in Table 1 based on QC failures.

5. Sample Results

a. Are the correct analyses performed/reported as requested on CoC?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

b. Are all applicable holding times met?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

c. Are all soils reported on a dry weight basis?
Yes ☐ No ☐ N/A ☒
Comments: No soil samples were analyzed in this delivery group.

d. Are the reported limits of quantitation (LoQ) or limits of detections (LOD), or reporting limits (RL) less than the Cleanup Level or the action level for the project?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

e. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: No data was qualified based on the responses in this section.

6. QC Samples

a. Method Blank

i. Was one method blank reported per matrix, analysis, and 20 samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Are all method blank results less than LOQ (or RL)?
Yes ☐ No ☒
Comments: RRO was detected in the AK103 method blank at a concentration exceeding the LOQ. The LOQ was 0.500 mg/l in the method blank and RRO was detected at a concentration of 1.30 mg/l. Data have been qualified as shown in Table 1.

iii. If above LoQ or RL, what samples are affected?
Comments: The samples affected by RRO being detected in the method blank at a concentration exceeding the LOQ include: MW20-091322 and MW6-091322.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☒ No ☐ N/A ☐
Comments: See Table 1 for a summary of the affected samples.

v. Data quality or usability affected?
Yes ☒ No ☐ N/A ☐

Comments: Select data are qualified based on method blank contamination as shown in Table 1.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
Yes ☐ No ☐ N/A ☒
Comments: No metals or inorganics analyses were conducted on the project samples in this delivery group.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
Yes ☒ No ☐ N/A ☐
Comments:

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: Not applicable as no percent recoveries or RPD were out of control limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: No samples were qualified as all percent recoveries and RPDs were within control limits.

vii. Is the data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: No samples required qualification as noted above.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – Are one MS/MSD reported per matrix, analysis and 20 samples?
Yes ☐ No ☒ N/A ☐
Comments: No MS/MSDs were performed for Methods AK101, AK102, AK103, or 8021B.

ii. Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples?
Yes ☐ No ☐ N/A ☒
Comments: No metals or inorganics analyses were conducted on the project samples in this delivery group.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?
Yes ☐ No ☐ N/A ☒
Comments: No MS/MSDs were performed for any methods or samples in this delivery group.

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.
Yes ☒ No ☐ N/A ☒
Comments: No MS/MSDs were performed for any methods or samples in this delivery group.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: No MS/MSDs were performed for any methods or samples in this delivery group.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: No MS/MSDs were performed for any methods or samples in this delivery group.

vii. Is the data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: No MS/MSDs were performed for any methods or samples in this delivery group.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

   i. Are surrogate/IDA recoveries reported for organic analyses – field, QC, and laboratory samples?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   ii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?
   Yes ☐ No ☐ N/A ☒
   Comments: All surrogate percent recoveries were within control limits.

   iv. Is the data quality or usability affected?
   Yes ☐ No ☒ N/A ☐
   Comments: All surrogate recoveries were within control limits.

e. Trip Blanks

   i. Is one trip blank reported per matrix, analysis, and for each cooler containing volatile samples? Yes ☐ No ☒ N/A ☐
   Comments: A trip blank was not provided with this delivery group.

   ii. Are all results less than LoQ or RL?
   Yes ☐ No ☐ N/A ☒
   Comments: No trip blank was provided with this delivery group.

   iii. If above LoQ or RL, what samples are affected?
   Comments: No trip blank was provided with this delivery group.

   iv. Is the data quality or usability affected?
   Yes ☐ No ☐ N/A ☒
   Comments: No trip blank was provided with this delivery group.

f. Field Duplicate

   i. Are one field duplicate submitted per matrix, analysis, and 10 project samples?
   Yes ☐ No ☐ N/A ☒

Comments: Field duplicates for the overall monitoring event were submitted in another delivery group. No field duplicates were submitted in this delivery group.

ii. Was the duplicate submitted blind to lab?
Yes ☐ No ☐ N/A ☒
Comments: No field duplicates were submitted in this delivery group.

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water or air, 50% soil)

$$RPD\ (\%) = \left| \frac{R_1 - R_2}{\left(\frac{R_1 + R_2}{2}\right)} \right| X\ 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Is the data quality or usability affected? (Explain)

Yes ☐ No ☐ N/A ☒
Comments: No field duplicates were submitted in this delivery group.

iv. Is the data quality or usability affected? (Explain)
Yes ☐ No ☐ N/A ☒
Comments: No field duplicates were submitted in this delivery group.

g. Decontamination or Equipment Blanks

i. Were decontamination or equipment blanks collected?
Yes ☐ No ☒ N/A ☐
Comments: No decontamination or equipment blanks were collected as part of this delivery group.

ii. Are all results less than LoQ or RL?
Yes ☐ No ☐ N/A ☒
Comments: No decontamination or equipment blanks were collected as part of this delivery group.

iii. If above LoQ or RL, specify what samples are affected.
Comments: Click or tap here to enter text.

iv. Are data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: No decontamination or equipment blanks were collected as part of this delivery group.

7. **Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)**

   a. Are they defined and appropriate?

      Yes ☐ No ☐ N/A ☒

      Comments: No other data qualifiers were applied to the data outside of the qualifications noted in the earlier sections above.

Table B1
Summary of Qualified Data
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Sample Identification	SDG	Matrix	Method	Analyte	Qualifier	Reason
MW26-091522	1225683	Water	AK102	Diesel Range Organics	J	Analysis conducted using a container without preservative
MW26-091522	1225683	Water	AK103	Residual Range Organics	J	Analysis conducted using a container without preservative
MW29-091522	1225683	Water	AK102	Diesel Range Organics	J	Analysis conducted using a container without preservative
MW29-091522	1225683	Water	AK103	Residual Range Organics	J	Analysis conducted using a container without preservative
MW30-091522	1225683	Water	AK102	Diesel Range Organics	J	Analysis conducted using a container without preservative
MW30-091522	1225683	Water	AK103	Residual Range Organics	J	Analysis conducted using a container without preservative
MW10-091422	1225683	Water	8270D SIM	Benzo[a]anthracene	UJ	Surrogate recovery of Fluoranthene-d10 below the lower control limit
MW10-091422	1225683	Water	8270D SIM	Benzo[a]pyrene	UJ	Surrogate recovery of Fluoranthene-d10 below the lower control limit
MW10-091422	1225683	Water	8270D SIM	Benzo[b]fluoranthene	UJ	Surrogate recovery of Fluoranthene-d10 below the lower control limit
MW10-091422	1225683	Water	8270D SIM	Benzo[g,h,i]perylene	UJ	Surrogate recovery of Fluoranthene-d10 below the lower control limit
MW10-091422	1225683	Water	8270D SIM	Benzo[k]fluoranthene	UJ	Surrogate recovery of Fluoranthene-d10 below the lower control limit
MW10-091422	1225683	Water	8270D SIM	Chrysene	UJ	Surrogate recovery of Fluoranthene-d10 below the lower control limit
MW10-091422	1225683	Water	8270D SIM	Dibenzo[a,h]anthracene	UJ	Surrogate recovery of Fluoranthene-d10 below the lower control limit
MW10-091422	1225683	Water	8270D SIM	Fluoranthene	UJ	Surrogate recovery of Fluoranthene-d10 below the lower control limit
MW10-091422	1225683	Water	8270D SIM	Indeno[1,2,3-c,d] pyrene	UJ	Surrogate recovery of Fluoranthene-d10 below the lower control limit
MW10-091422	1225683	Water	8270D SIM	Pyrene	UJ	Surrogate recovery of Fluoranthene-d10 below the lower control limit
MW19-091422	1225683	Water	AK101	Gasoline Range Organics	J+	Surrogate recovery exceeds the upper control limit
MW19-091422	1225683	Water	8021B	Benzene	J+	Surrogate recovery exceeds the upper control limit
MW19-091422	1225683	Water	8021B	Toluene	J+	Surrogate recovery exceeds the upper control limit
MW19-091422	1225683	Water	8021B	Ethylbenzene	J+	Surrogate recovery exceeds the upper control limit
MW19-091422	1225683	Water	8021B	m,p-Xylene	J+	Surrogate recovery exceeds the upper control limit
MW19-091422	1225683	Water	8021B	o-Xylene	J+	Surrogate recovery exceeds the upper control limit
MW19-091422	1225683	Water	8021B	Xylenes (total)	J+	Surrogate recovery exceeds the upper control limit
MW23-091422	1225683	Water	8021B	Benzene	J+	Surrogate recovery exceeds the upper control limit
MW23-091422	1225683	Water	8021B	Toluene	J+	Surrogate recovery exceeds the upper control limit
MW23-091422	1225683	Water	8021B	Ethylbenzene	J+	Surrogate recovery exceeds the upper control limit
MW23-091422	1225683	Water	8021B	m,p-Xylene	J+	Surrogate recovery exceeds the upper control limit
MW23-091422	1225683	Water	8021B	o-Xylene	J+	Surrogate recovery exceeds the upper control limit
MW23-091422	1225683	Water	8021B	Xylenes (total)	J+	Surrogate recovery exceeds the upper control limit
MW24-091422	1225683	Water	8021B	Benzene	J+	Surrogate recovery exceeds the upper control limit
MW24-091422	1225683	Water	8021B	Toluene	J+	Surrogate recovery exceeds the upper control limit
MW24-091422	1225683	Water	8021B	Ethylbenzene	J+	Surrogate recovery exceeds the upper control limit
MW24-091422	1225683	Water	8021B	m,p-Xylene	J+	Surrogate recovery exceeds the upper control limit
MW24-091422	1225683	Water	8021B	o-Xylene	J+	Surrogate recovery exceeds the upper control limit
MW24-091422	1225683	Water	8021B	Xylenes (total)	J+	Surrogate recovery exceeds the upper control limit
MW26-091522	1225683	Water	8021B	Benzene	J+	Surrogate recovery exceeds the upper control limit
MW26-091522	1225683	Water	8021B	Toluene	J+	Surrogate recovery exceeds the upper control limit
MW26-091522	1225683	Water	8021B	Ethylbenzene	J+	Surrogate recovery exceeds the upper control limit
MW26-091522	1225683	Water	8021B	m,p-Xylene	J+	Surrogate recovery exceeds the upper control limit
MW26-091522	1225683	Water	8021B	o-Xylene	J+	Surrogate recovery exceeds the upper control limit
MW26-091522	1225683	Water	8021B	Xylenes (total)	J+	Surrogate recovery exceeds the upper control limit

Table B1
Summary of Qualified Data
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Sample Identification	SDG	Matrix	Method	Analyte	Qualifier	Reason
MW29-091522	1225683	Water	8021B	Benzene	J+	Surrogate recovery exceeds the upper control limit
MW29-091522	1225683	Water	8021B	Toluene	J+	Surrogate recovery exceeds the upper control limit
MW29-091522	1225683	Water	8021B	Ethylbenzene	J+	Surrogate recovery exceeds the upper control limit
MW29-091522	1225683	Water	8021B	m,p-Xylene	J+	Surrogate recovery exceeds the upper control limit
MW29-091522	1225683	Water	8021B	o-Xylene	J+	Surrogate recovery exceeds the upper control limit
MW29-091522	1225683	Water	8021B	Xylenes (total)	J+	Surrogate recovery exceeds the upper control limit
MW30-091522	1225683	Water	8021B	Benzene	J+	Surrogate recovery exceeds the upper control limit
MW30-091522	1225683	Water	8021B	Toluene	J+	Surrogate recovery exceeds the upper control limit
MW30-091522	1225683	Water	8021B	Ethylbenzene	J+	Surrogate recovery exceeds the upper control limit
MW30-091522	1225683	Water	8021B	m,p-Xylene	J+	Surrogate recovery exceeds the upper control limit
MW30-091522	1225683	Water	8021B	o-Xylene	J+	Surrogate recovery exceeds the upper control limit
MW30-091522	1225683	Water	8021B	Xylenes (total)	J+	Surrogate recovery exceeds the upper control limit
MW9-091022	1225683	Water	AK102	Diesel Range Organics	0.588 U	Method blank contamination; report result at LOQ and qualify as non-detect.
TW2-091022	1225683	Water	AK102	Diesel Range Organics	0.588 U	Method blank contamination; report result at LOQ and qualify as non-detect.
MW9-091022	1225683	Water	AK103	Residual Range Organics	0.814 U	Method blank contamination; report at sample result and qualify as non-detect.
TW2-091022	1225683	Water	AK103	Residual Range Organics	0.701 U	Method blank contamination; report at sample result and qualify as non-detect.
MW22-091322	1225683	Water	AK103	Residual Range Organics	J+	Method blank contamination
MW11R-091422	1225683	Water	AK103	Residual Range Organics	J+	Method blank contamination
MW11R-091422-D	1225683	Water	AK103	Residual Range Organics	J+	Method blank contamination
MW26-091522	1225683	Water	AK103	Residual Range Organics	J+	Method blank contamination
MW30-091522	1225683	Water	AK103	Residual Range Organics	J+	Method blank contamination
MW27-091422	1225683	Water	8270D SIM	1-Methylnaphthalene	0.049 U	Method blank contamination; report result at LOQ and qualify as non-detect.
SEEP-091422	1225683	Water	8270D SIM	1-Methylnaphthalene	0.049 U	Method blank contamination; report result at LOQ and qualify as non-detect.
SEEP-091422	1225683	Water	8270D SIM	2-Methylnaphthalene	0.049 U	Method blank contamination; report result at LOQ and qualify as non-detect.
MW27-091422	1225683	Water	8270D SIM	Fluoranthene	0.049 U	Method blank contamination; report result at LOQ and qualify as non-detect.
MW11R-091422	1225683	Water	8270D SIM	2-Methylnaphthalene	0.0481 U	Method blank contamination; report result at LOQ and qualify as non-detect.
MW16-091422	1225683	Water	8270D SIM	2-Methylnaphthalene	0.049 U	Method blank contamination; report result at LOQ and qualify as non-detect.
MW20-091322	1225733	Water	AK103	Residual Range Organics	1.20 U	Method blank contamination; report at sample result and qualify as non-detect.
MW6-091322	1225733	Water	AK103	Residual Range Organics	J+	Method blank contamination

NOTES:
J+ = result is an estimate with a high bias
J = result is an estimate
LOQ = limit of quantitation
SDG = sample delivery group
U = analyte not detected above the laboratory reporting limit
UJ = analyte not detected above the laboratory reporting limit and reporting limit is an estimate

APPENDIX D
WASTEWATER DISPOSAL CERTIFICATE

2022 GROUNDWATER MONITORING REPORT
Delta Western Dillingham
Dillingham, Alaska

Farallon PN: 1010-004

Marine Vacuum* Service, *Inc.
A WASHINGTON ENVIRONMENTAL COMPANY
MARINE AND INDUSTRIAL CLEANING
TANK REMOVAL

P0. Box 24263 Seattle, Washington 98124
Telephone (206) 762-0240
FAX (206) 763-8084
1-800-540-7491

PRODUCT DISPOSAL CERTIFICATE

DATE: January 17, 2023

CUSTOMER: Farallon Consulting billed to AML

Site address: PU AML 450 Alaskan Way South

Product disposal: 1 drum Purge Water

DATE Received: January 17, 2023, MVS BOL 24107
AML BOL DR0017058462

Marine Vacuum Service Inc. certifies that the above-mentioned product has been treated and disposed of in accordance with the industry standard and under authority of King County METRO Permit Number 7676-08, and in accordance with Federal, State and Local regulations.

Tom Myler
Marine Vacuum Service Inc. Representative