2024 Groundwater Monitoring Report

Delta Western Dillingham
Dillingham, Alaska

ADEC Hazard Identification Nos. 23487 and 25770

Farallon PN: 1010-004

December 16, 2024

Prepared and Reviewed by:

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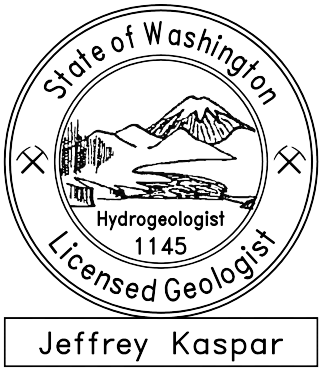

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ACRONYMS AND ABBREVIATIONS

2024 Groundwater Monitoring Event	July 2024 performance groundwater monitoring activities
AAC	Alaska Administrative Code
ADEC	Alaska Department of Environmental Conservation
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and total 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
LCSD	Laboratory control sample duplicate
LOQ	limit of quantitation
µg/L	micrograms per liter
mg/L	milligrams per liter
PAHs	polynuclear aromatic hydrocarbons
QA/QC	quality assurance/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 2024 Groundwater Monitoring Report for Delta Western, LLC (Delta Western) to present the results from the groundwater monitoring activities conducted from July 16 through 20, 2024 and monitoring well repairs conducted in October 2024, at the formerly owned Delta Western facility in Dillingham, Alaska (herein referred to as the Site). The July 2024 performance groundwater monitoring activities (herein referred to as the (2024 Groundwater 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). A Site vicinity map is provided on Figure 1. A Site plan is provided on Figure 2.

This 2024 Groundwater Monitoring Report was prepared by Jeffrey Kaspar, Farallon Principal Geologist; 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 is also 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 tank farm 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 tank farm 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 and the 2020 through 2023 Groundwater Monitoring Events.
- **Section 3, Groundwater Monitoring Methods,** presents the groundwater monitoring and sampling methods used for the 2024 monitoring event;
- **Section 4, Groundwater Monitoring Results,** presents the results from the 2024 Groundwater Monitoring Event conducted at the Site;
- **Section 5, Seep Inspection,** presents the July 2024 seep inspection;
- **Section 6, Quality Assurance Data Review,** presents a summary of quality assurance (QA) data validation findings for the groundwater samples analyzed for the 2024 Groundwater Monitoring Event;
- **Section 7, Groundwater Monitoring Well Maintenance Event,** summarizes the monitoring well maintenance activities conducted at the Site;
- **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 2024 groundwater monitoring and sampling activities, and an assessment of the performance to date of the Interim Action based on the results from the 2024 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. A total of 28 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, 2021, 2022, AND 2023 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, 2022, and 2023 to assess the performance of the Interim Action. The 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

[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 freshwater aquaculture water-supply designated uses.

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 generally lower down-gradient of the injection alignment relative to concentrations detected in monitoring wells up-gradient of the alignment during the 2021, 2022, and 2023 groundwater monitoring events, demonstrating the Interim Action injections have effectively reduced petroleum hydrocarbons concentrations in groundwater in the southwestern area of the Site (Farallon 2022, 2023, 2024).

Concentrations 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 through 2023 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 2020 baseline monitoring event to less than the cleanup levels during the 2021 and 2022 monitoring events but rebounded slightly in 2023 at monitoring well MW-29. DRO and GRO concentrations in groundwater samples collected from monitoring wells MW-29 and MW-30 continued to exceed the ADEC Table C cleanup levels in 2023.

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 2022).

During the 2022 and 2023 Groundwater Monitoring Events, the presence of suspended carbon material was assessed again, following visual assessment methods recommended by Regenesis, the manufacturer of the PetroFix product. The 2022 and 2023 suspended carbon assessment indicated that the residual suspended carbon in groundwater proximal to the injection alignment would not likely affect the dissolved-phase petroleum hydrocarbons analysis according to Regenesis.

3.0 GROUNDWATER MONITORING METHODS

This section describes the groundwater monitoring and sampling methods used during the July 2024 monitoring event.

3.1 SAMPLING PROTOCOLS

Groundwater samples were collected on July 16 through 20 from monitoring wells B1MW through B4MW, MW-5R, MW-6 through MW-8, MW-10, MW-11R, MW-12 through MW-14, MW-16, MW-19, MW-20, MW-23, MW-24, MW-26, MW-27, MW-29, and MW-30. The following monitoring wells could not be sampled:

- B4MW still has gravel packed inside the well riser and is not readily repairable. The status of the well was unchanged from 2021.

During the 2024 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 2024 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 2024 Groundwater 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 collecting 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.

3.2 SELECTED MONITORING WELLS AND ANALYSES

3.2.1 2024 Groundwater Monitoring Event

During the 2024 Groundwater Monitoring Event, groundwater samples were analyzed for the following:

- GRO using Alaska Method AK 101;
- DRO using Alaska Method AK 102;
- 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-10, MW-11R, 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-11R, MW-16, MW-26, and MW-30 also were tested in the field for

the natural attenuation parameters ferrous iron (II) and manganese (II) using colorimetric test kits.[2] Three wells in the vicinity of the injection point alignment, MW-10, MW-27, and MW-29, were planned for measurement of ferrous iron (II) and manganese (II) using colorimetric test kits, but were not included due to suspended carbon injectant material observed in the purge water, which would have influenced the colorimetric-based measurements.

Duplicate field QA/quality control (QC) samples were collected from monitoring wells MW-7, MW-8, MW-19, and MW-26 and analyzed for GRO, DRO, RRO, BTEX, and VOCs using the methods listed above. The duplicate sample collected at monitoring well MW-26 was also analyzed also for PAHs, sulfate, and nitrate/nitrite using the methods listed above.

Two trip blanks were included in this sampling event and were analyzed for GRO, BTEX and/or VOCs.

[2] Hach Model IR-20.

4.0 GROUNDWATER MONITORING RESULTS

This section presents the results from the 2024 Groundwater Monitoring Event conducted at the Site.

4.1 GROUNDWATER ELEVATIONS

The depths to groundwater measured in monitoring wells during the 2024 Groundwater Monitoring Event ranged from 0.55 feet below the top of the well casing in monitoring well MW-8 to 10.02 feet below the top of the well casing in monitoring well MW-16 (Table 1). Groundwater elevations measured during the 2024 Groundwater Monitoring Event ranged from 36.66 feet above mean sea level in monitoring well MW-8 to 19.55 feet above mean sea level in monitoring well MW-16.

The groundwater elevation contours based on the 2024 Groundwater 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. 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. The groundwater flow direction estimated from the groundwater elevations measured during the 2024 Groundwater Monitoring Event was generally consistent with that from previous monitoring events conducted at the Site with regards to the overall southerly flow direction towards the river.

4.2 2024 GROUNDWATER ANALYTICAL RESULTS

The analytical results from the 2024 Groundwater 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 A. ADEC laboratory data review checklists for the 2024 monitoring events are provided in Appendix B along with a table summarizing the qualified data, discussed in Section 7, Quality Assurance Data Review. The groundwater analytical results for the 2024 Groundwater Monitoring Event are presented below.

4.2.1 Total Petroleum Hydrocarbons as Diesel-Range Organics

DRO was detected at concentrations exceeding the ADEC Table C cleanup level of 1.5 milligrams per liter (mg/L) in groundwater samples collected from 13 of the 21 monitoring wells sampled and in the duplicate QA/QC samples for monitoring wells MW-19 and MW-26. The highest concentrations of DRO detected during the monitoring event was 13.8 mg/L, detected in the groundwater sample collected from monitoring well MW-13.

4.2.2 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 7 of the 21 monitoring wells sampled. The highest concentration of RRO detected during the monitoring event was 3.00 mg/L, detected in the groundwater sample collected from monitoring well MW-24.

4.2.3 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 5 of the 21 monitoring wells sampled, and in the QA/QC duplicate sample collected from monitoring well MW-26. The highest concentration of GRO detected during the monitoring event was 9.94 mg/L, detected in the groundwater sample collected from monitoring well MW-24.

4.2.4 Benzene, Toluene, Ethylbenzene, and Xylenes

BTEX constituents were detected at concentrations exceeding ADEC Table C cleanup levels in groundwater samples collected during the 2024 Groundwater 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 16 of the 21 monitoring wells sampled, and in the QA/QC duplicate samples collected from monitoring wells MW-7, MW-19, and MW-26. The highest concentration of benzene detected during the monitoring event was 0.492 mg/L, detected in the groundwater 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 2024 Groundwater Monitoring Event.
- Ethylbenzene was detected at concentrations exceeding the ADEC Table C cleanup level of 0.015 mg/L in samples collected from 10 of the 21 monitoring wells and in

the QA/QC duplicate sample collected from monitoring well MW-19. The highest concentration detected was 0.311 mg/L in the groundwater 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 5 of the 21 monitoring wells and in the QA/QC duplicate sample collected from monitoring well MW-26. The highest concentration detected was 2.34 mg/L in the groundwater duplicate sample collected from monitoring well B1MW.

4.2.5 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 2024 Groundwater Monitoring Event. Excluding BTEX, which is discussed above, the following VOCs related to petroleum hydrocarbons 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 four of the seven monitoring wells sampled and in the QA/QC duplicate sample collected from monitoring well MW-26. The highest concentration detected was 174 µg/L in the sample collected from monitoring well MW-29.
- 1,3,5-Trimethylbenzene was detected at concentrations exceeding the ADEC Table C cleanup level of 60 µg/L in one of the seven monitoring wells sampled. The concentration detected was 66.3 µg/L in the sample collected from monitoring well MW-29.
- 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 and in the QA/QC duplicate sample collected from monitoring well MW-26. The highest concentration detected was 110 µg/L in the sample collected from monitoring well MW-26.

4.2.6 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 2024 Groundwater 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 exceeding the ADEC Table C cleanup level of 11 µg/L in one of the seven monitoring wells sampled and in the QA/QC duplicate sample collected from monitoring well MW-26. The concentration detected was 29.1 µg/L in the sample collected from monitoring well MW-26.
- 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 42.1 µg/L in the sample collected from monitoring well MW-26.

4.2.7 Equivalent Total Aromatic and Total Aqueous Hydrocarbons

In accordance with the IRA Work Plan, the BTEX 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.

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 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 203.5, 79.8, and 616 µg/L, respectively. The equivalent TAqH concentrations for monitoring wells MW-10, MW-11R, and MW-26 were 204.8, 79.8, and 619 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 6.18, 0.44, 442, and 291 µg/L, respectively. The equivalent TAqH concentrations for monitoring wells MW-16, MW-27, MW-29, and MW-30, were 6.18, 0.46, 442, and 291 µg/L, respectively.

4.2.8 Natural Attenuation Parameters

Monitoring wells MW-10, MW-11R, 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-11R, MW-16, MW-26, and MW-30 were field tested also for the natural attenuation parameters ferrous iron (II), and manganese (II). Monitoring wells MW-10, MW-27, and MW-30 could not be field tested due to the water being discolored by the carbon present.

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 0.23 mg/L in monitoring wells MW-23 and MW-24 to 1.62 mg/L in monitoring well B2MW. With the exceptions of monitoring wells B1MW, B2MW, B3MW, MW-16, and MW-19, the dissolved-oxygen levels measured in groundwater 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 0.128 mg/L in the groundwater sample collected from monitoring well MW-26 to 0.351 mg/L in monitoring well MW-10. Sulfate concentrations in groundwater samples collected from monitoring wells sampled for natural attenuation parameters ranged from an estimated value of 0.0580 mg/L in the groundwater sample collected from monitoring well MW-29 to 6.73 mg/L in monitoring well MW 16.

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 and stayed stable in 2021, 2022, 2023, and 2024, further suggesting that sulfate was being used as an electron receptor for biodegradation in the down-gradient portion of the Site but is now expended.

Ferrous iron (II) concentrations in groundwater samples measured for natural attenuation parameters ranged from 1.0 mg/L in monitoring well MW-16 to 7.0 mg/L in monitoring well MW-10. Manganese (II) concentrations in groundwater samples measured for natural attenuation parameters ranged from 1.5 mg/L in monitoring well MW-26 to 3.0 mg/L in monitoring well MW-11R. 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. The presence of ferrous iron (II) and manganese (II) are also indicators of a reducing environment.

5.0 SEEP INSPECTION

The sheet pile wall was inspected during the 2024 Groundwater Monitoring Event for the presence of active seeps. A few small seeps were observed in weld seams in the south-facing containment wall near location MW-30; however, samples were not collected at the seep locations, as there was either no evidence of water discharge or not enough volume to collect samples.

6.0 QUALITY ASSURANCE DATA REVIEW

This section provides a summary of QA data validation findings for environmental samples analyzed by SGS for the 2024 Groundwater Monitoring Event. Data validation was performed for Sample Delivery Group 1243825 for the July 2024 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 B. The review of project analytical data was performed using the National Functional Guidelines for Organic Superfund Methods Data Review (EPA 2020b), and National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA 2020a).

6.1 OVERALL DATA ASSESSMENT

All data are of known quality and are suitable for use, with the exception of the following results, which were rejected as a result of this data assessment:

- Acenaphthene in the equipment blank collected on July 21, 2024;
- Anthracene at monitoring wells MW-29 and MW-30, in the field duplicate collected from MW-26, and in the equipment blank collected on July 21, 2024; and
- Phenanthrene at monitoring well MW-29 and in the equipment blank collected on July 21, 2024.

Data qualified and/or rejected during this validation effort are summarized in Table B1 of Appendix B and discussed in the sections below. The qualified results are also reflected in the analytical results in Tables 2 through 5.

6.2 DATA QUALIFIER DEFINITIONS

The 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.
- J- (estimated low bias): The result is an estimated quantity and the result may be biased low based on non-conformances identified during data validation.

- R: Result rejected due to serious deficiencies in meeting quality control criteria.
- U (not detected): The analyte was analyzed for and not detected at a concentration exceeding the laboratory reporting limit.
- UJ (not detected): The analyte was analyzed for and not detected at a concentration exceeding the laboratory reporting limit and the reporting limit is an estimate.

6.3 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 exceeds 95 percent. Section 6.1 identifies the sample results that were rejected as a result of the data assessment (Appendix B).

6.4 QUALIFIED DATA ASSESSMENT

This section provides a brief discussion of the non-conformances identified during the data validation of analytical data in Sample Delivery Group 1243825.

6.4.1 Sample Delivery Group 1243825

Holding Times

The field duplicate (DUP003) collected from MW-26 was re-analyzed by the laboratory one day outside of holding time for EPA Method 8260D. The m,p-xylene, o-xylene, and total xylenes results for this sample by this method are qualified as estimates as shown in Table B1 of Appendix B.

Method Blanks

RRO and 2-methylnaphthalene were detected in various method blanks at concentrations less than the limit of quantitation (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 B1 of Appendix B. Sample results associated with these method blanks where these analytes were detected at concentrations slightly above the LOQ are qualified as estimates with a high bias (J+) as shown in Table B1.

Laboratory Control Samples

Laboratory control sample duplicate (LCSD) analyses were not conducted for Method 4500NO3-F and Method 300.0.

The %R of DRO in one of the laboratory control samples (LCS) for AK102 was below the lower control limits. The samples affected included B1MW-071724, B2MW-071724, B3MW-071624, MW8-071624, and MW13-071724. DRO results are qualified as shown in Table B1. The %R of 1-methylnaphthalene, 2-methylnaphthalene, acenaphthene, anthracene, fluorene, naphthalene, and phenanthrene were below the lower control limits in one of the LCS samples analyzed for Method 8270E/SIM. The LCS/laboratory control sample duplicate (LCSD) RPDs for this same spike blank and its duplicate did not meet the RPD control limits for these same analytes. In addition, the RPD for acenaphthylene exceeded the control limit in this same LCS/LCSD pair. Sample results were qualified or rejected for the following samples as shown in Table B1 of Appendix B: DUP003, EB381-072124, MW26-072024, MW29-072024, and MW30-072024.

The LCS/LCSD RPDs for toluene and o-xylenes exceeded control limits in one spike blank and its duplicate. The detected toluene and o-xylene results for the following samples associated with this LCS/LCSD pair were qualified as estimates as shown in Table B1: DUP003 and MW30-072024.

Surrogates

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 B1 of Appendix B provides a summary of surrogate recoveries out of control limits and the qualification of sample results.

Field QA/QC Duplicates

The sulfate RPD for sample MW26-072024 and duplicate DUP003 exceeded the project objective. The sulfate results for sample MW26-072024 and DUP003 are qualified as estimates as shown in Table B1. The RPDs for several PAHs analyzed by Method 8270E/SIM for sample MW26-072024 and duplicate DUP003 exceeded project objectives. These data were qualified as estimates (J or UJ) as shown in Table B1.

Equipment Blanks

Two PAHs were detected in the equipment blank at concentrations exceeding the LOQ and included: 1-methylnaphthalene and 2-methylnaphthalene. The equipment blank was collected at the end of sampling event. Therefore, specific sample results could not be qualified. Corrective measures will be taken in the future through communications with the sampler regarding sampling frequency and timing so that equipment blank results can be used to better evaluate the quality of the sampling procedures.

7.0 GROUNDWATER MONITORING WELL MAINTENANCE EVENT

This section summarizes the monitoring well maintenance activities conducted at the Site. The repairs to the monitoring wells were necessary due to frost-heaving and associated cold weather damage that was observed during the 2024 Groundwater Monitoring Event.

7.1 2024 MONITORING WELL MAINTENANCE

During the 2024 Groundwater Monitoring Event, the physical condition of the well monuments at the Site were assessed and observations were documented. Well monuments were inspected for issues, including missing bolts, seals, and gaskets; damaged or missing well caps; damage to the monument due to frost heave; and any other condition that could negatively affect the integrity of a well. During this inspection, LII Associates, LLC, observed that 11 of the monitoring wells required repairs to ensure that their condition met the ADEC monitoring well guidance standards.[3]

The purpose of the 2024 Monitoring Well Maintenance Event was to mitigate the potential for environmental impact from the Site surface to groundwater interactions, to mitigate the need to replace entire monitoring wells, and to ensure that results of future monitoring events are representative of groundwater conditions at the Site.

7.1.1 Monitoring Well Maintenance Summary

On October 16 through 20, LII Associates, LLC conducted repairs to the required monitoring wells. A summary of the repairs at monitoring wells B2MW, MW-8, MW-12 MW-14, and MW-16 included:

- Cutting the well casing to approximately 1 to 1.5 inches below the monument cover to allow the monument covers to be secured with the standard bolts;
- Replacing each well cap with a new locking well cap;
- Cleaning and replacing the sealing gaskets on the monuments; and
- Replacing missing or damaged bolts and securing each well.

[3] ADEC, Division of Spill Prevention and Response Contaminated Sites Program. "Monitoring Well Guidance." *Alaska.gov*, Sept. 2013, dec.alaska.gov/spar/csp/guidance-forms/. (August 13, 2024.)

Monitoring wells that required replacement of the entire monument included B3MS, MW-5R, MW-6, MW-9, MW-13, and MW-20. The work conducted at these locations included:

- Removal the existing monuments using hand tools to mitigate damage to the well casings.
- Removal of excessive bentonite that had swelled in the borehole and where necessary to ensure an adequate bentonite seal was maintained, replacement with new bentonite prior to installing the new monument and concrete surface completion.
- Installation of soil anchors at MW-6 only. Anchoring could not be conducted at the other wells due to the presence of utilities or fuel lines.
- Cutting the well casing to approximately 1 to 1.5 inches below the monument cover to allow the new monument covers to be secured.
- Installation of new monuments and covers that were set in new concrete. Concrete was allowed to cure for approximately 24 hours.
- Checking the quality of the monument replacement to mitigate potential for future damage by snow plowing or weather.
- Securing the locking well caps and bolting the wells shut.

Well monuments that were not replaced this season included monitoring wells MW-10 and MW-12. The well monuments at these locations were frozen within the ground during the maintenance event and could not be replaced this season. The existing monuments/covers were secured and will be scheduled for replacement in 2025 to coincide with the next scheduled groundwater monitoring event.

8.0 INVESTIGATION-DERIVED WASTE HANDLING

Wastewater generated by the sampling of the monitoring wells at the Site in 2024 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 2024 field activities. The drummed waste materials were shipped via Alaska Marine Lines barge in September 2024 to Marine Vacuum Service, Inc. in Seattle, Washington for treatment or disposal. A certificate of disposal is provided in Appendix C.

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

9.0 DISCUSSION

DRO was detected at concentrations exceeding ADEC Table C cleanup levels in groundwater samples collected from monitoring wells throughout the Site during the 2024 Groundwater 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, which continues to be consistent with previous monitoring events (Figure 4 and Table 3).

RRO was detected in groundwater at concentrations exceeding ADEC Table C cleanup levels during the 2024 Groundwater Monitoring Event in samples collected from wells in various locations at the Site and is co-located with DRO in the samples. Samples containing RRO at concentrations exceeding ADEC Table C cleanup levels typically also 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. Overall, RRO concentrations, where detected, appear to be in a stable to decreasing state.

GRO and related compound detections remain generally consistent for the past several years with no distinct significant changes (Figure 4 and Tables 3 and 4). Fluctuations in concentrations are expected to continue with overall stable to decreasing trends based on historical monitoring data to date.

The geochemical data continues to indicate that groundwater conditions trend toward a reducing condition. Biodegradation of petroleum hydrocarbons will occur under reducing conditions but at a slower rate than more aerobic/oxidizing environments. The colder seasonal conditions will also slow microbial activity, with increased microbial growth and biodegradation likely occurring during the late spring and summer.

Overall, groundwater flow direction, geochemistry, and quality are generally consistent for the past several years. The interim action is expected to continue to result in retardation of dissolved-phase petroleum hydrocarbons and allow greater resonance time for microbial degradation to occur, albeit at a relatively lower and inconsistent rate associated with the weather and groundwater geochemistry.

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

2024 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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DILLINGHAM LIQUOR

MW-21

WAREHOUSE

FUEL DISPENSERS

CANOPY

MAIN STREET

MW-9

OFFICE BUILDING

B3MW

B4MW

APPROXIMATE FORMER UST LOCATION

MW-8

TW-2

B2MW

B1MW

FORMER DILLINGHAM AUTO BUILDING (315 MAIN STREET)

MW-7

TW-3

DAY TANKS

MW-13

TW-1

PETER PAN SEAFOODS

FENCE ON CONCRETE WALL (TYP)

MW-12

CITY OF DILLINGHAM PORT OFFICE AND STORAGE

CITY OF DILLINGHAM PROPERTY

MW-6

MW-20

FORMER TRUCK-LOADING RACK

TRUCK-LOADING RACK

MW-5

SHED

MW-5R

STAIRS (TYP)

MW-14

MW-22

TANK 11

TANK 9

TANK 7

MW-25

FOUNDATION OF FORMER STORAGE BUILDING

6

5

4

1

2

TANK 3

FENCE ON CONCRETE WALL (TYP)

DRIVEWAY

FENCE

MW-19

TANK 8

CONCRETE WALL (TYP)

PUMP HOUSE

MW-24

MW-15

MW-23

MW-10

MW-27

GRAVEL

TANK 10

MW-26

APPROXIMATE SEEP LOCATION

MW-11R

TIMBER WALL

MW-16

SD

GRATE

DIKE DRAIN

MW-17

MW-30

MW-29

MW-18

SHEET PILE WALL (TYP)

CONCRETE WALL (TYP)

EDGE OF SLOPE (SHEET PILE WALL)

FUEL DOCK

0 40

SCALE IN FEET

NUSHAGAK RIVER

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

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DILLINGHAM LIQUOR

MW-21 [NS]

WAREHOUSE

FUEL DISPENSERS

CANOPY

MAIN STREET

MW-9 [NS]

OFFICE BUILDING

36.00

B3MW (35.42)

B4MW [NS]

APPROXIMATE FORMER UST LOCATION

MW-8 (36.66)

[NS] TW-2

B2MW (34.58)

36.00

35.00

34.00

33.00

32.00

FORMER DILLINGHAM AUTO BUILDING (315 MAIN STREET)

B1MW (34.96)

31.00

MW-7 (30.73)

TW-3

DAY TANKS

35.00

MW-13 (33.67)

TW-1

31.00

34.00

PETER PAN SEAFOODS

32.00

FENCE ON CONCRETE WALL (TYP)

MW-12 (33.59)

CITY OF DILLINGHAM PORT OFFICE AND STORAGE

33.00

TRUCK-LOADING RACK

MW-5

FORMER TRUCK-LOADING RACK

MW-6 (32.67)

MW-20 (32.52)

SHED

MW-5R (33.19)

STAIRS (TYP)

MW-14 (32.32)

32.00

CITY OF DILLINGHAM PROPERTY

MW-22 [NS]

32.00

31.00

[NS] MW-25

TANK 7

TANK 11

TANK 9

6

FOUNDATION OF FORMER STORAGE BUILDING

31.00

30.00

DRIVEWAY

FENCE

CONCRETE WALL (TYP)

5

30.00

4

TANK 8

MW-19 (27.73)

29.00

FENCE ON CONCRETE WALL (TYP)

(29.24) MW-24

PUMP HOUSE

1

TANK 3

28.00

MW-23 (27.37)

2

MW-15 [NS]

27.00

29.00 MW-27 [NS]

MW-10 (27.91)

GRAVEL

28.00 SEEP

APPROXIMATE **SEEP** LOCATION

26.00

MW-26 (26.05)

TANK 10

25.00

27.00

26.00

25.00

24.00

23.00

22.00

21.00

20.00

MW-11R (23.91)

TIMBER WALL

24.00

MW-16 (19.55)

20.00

22.00

23.00

GRATE

MW-29 MW-18 [NS]

DIKE DRAIN

MW-17

MW-30 [NS]

SHEET PILE WALL (TYP)

CONCRETE WALL (TYP)

EDGE OF SLOPE (SHEET PILE WALL)

FUEL DOCK

0 40

SCALE IN FEET

NUSHAGAK RIVER

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 SAMPLED
- (35.42) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- GROUNDWATER ELEVATION CONTOUR DASHED WHERE INFERRED
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW

ALL LOCATIONS ARE APPROXIMATE

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FIGURE 3

GROUNDWATER ELEVATION CONTOUR MAP
JULY - 2024
DELTA WESTERN TERMINAL
DILLINGHAM, ALASKA

FARALLON PN: 1010-004

Drawn By: RB | Checked By: RP | Date: 10/18/2024 | Disk Reference: 1010-004

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DILLINGHAM LIQUOR

MAIN STREET

WAREHOUSE

MW-21

MW-9

FUEL DISPENSERS

CANOPY

OFFICE BUILDING

WELL	DRO	RRO	GRO	B	T	E	X
MW-8	**2.86**	0.514	2.01	**0.00728**	<0.00375	**0.113**	**0.375**

MW-8

TW-2

WELL	DRO	RRO	GRO	B	T	E	X
B3MW	0.505 J	0.635	0.517	**0.0060**	<0.00375	0.00621	0.0167

B3MW

WELL	DRO	RRO	GRO	B	T	E	X
B2MW	0.601	0.970	<0.0750	**0.00513**	<0.00375	<0.00375	<0.00375

B4MW

APPROXIMATE FORMER UST LOCATION

B2MW

WELL	DRO	RRO	GRO	B	T	E	X
B1MW	**1.67**	0.787	**7.75**	**0.492**	0.129	**0.311**	**2.34**

B1MW

FORMER DILLINGHAM AUTO BUILDING (315 MAIN STREET)

WELL	DRO	RRO	GRO	B	T	E	X
MW-7	0.892	0.601	0.598	**0.0800**	0.00362 J	0.00313 J	0.0427
MW-7*	0.751	0.479 J	0.585	**0.0807**	0.00363 J	0.00319 J	0.0423

MW-7

TW-3

DAY TANKS

WELL	DRO	RRO	GRO	B	T	E	X
MW-13	**13.8**	0.739	0.593	**0.0481**	0.0191	0.00791	0.0163

MW-13

TW-1

WELL	DRO	RRO	GRO	B	T	E	X
MW-6	0.684	0.720	0.105	**0.0119**	<0.00375	<0.00375	<0.00375

PETER PAN SEAFOODS

FENCE ON CONCRETE WALL (TYP)

WELL	DRO	RRO	GRO	B	T	E	X
MW-12	**2.52**	**1.11**	1.73	**0.126**	0.00855	**0.0198**	**0.465**

MW-12

WELL	DRO	RRO	GRO	B	T	E	X
MW-14	**6.84**	**1.27**	0.187	0.00137	<0.00375	<0.00375	0.00481 J

CITY OF DILLINGHAM PORT OFFICE AND STORAGE

CITY OF DILLINGHAM PROPERTY

MW-6

MW-20

FORMER TRUCK-LOADING RACK

TRUCK-LOADING RACK

MW-5

SHED

MW-5R

STAIRS (TYP)

MW-14

MW-22

WELL	DRO	RRO	GRO	B	T	E	X
MW-20	**3.75**	**3.09**	0.642	**0.230**	<0.00375	0.00374 J	0.00739

WELL	DRO	RRO	GRO	B	T	E	X
MW-5R	**3.89**	**1.29**	0.472	**0.130**	<0.00375	0.00995	0.0138

TANK 11

TANK 9

TANK 7

MW-25

FOUNDATION OF FORMER STORAGE BUILDING

WELL	DRO	RRO	GRO	B	T	E	X
MW-19	**2.46**	0.658	1.85	**0.123**	<0.00375	**0.132**	0.131
MW-19*	**3.16**	0.750	1.85	**0.126**	<0.00375	**0.134**	0.132

CONCRETE WALL (TYP)

FENCE

DRIVEWAY

MW-19

WELL	DRO	RRO	GRO	B	T	E	X
MW-24	**12.9**	**3.00**	**9.94**	**0.0371**	0.0109	**0.103**	0.138

TANK 8

6

5

4

1

2

TANK 3

FENCE ON CONCRETE WALL (TYP)

MW-15

WELL	DRO	RRO	GRO	B	T	E	X
MW-23	**5.87**	**1.26**	**2.23**	**0.111**	<0.00375	**0.0228**	0.183

PUMP HOUSE

MW-24

MW-23

WELL	DRO	RRO	GRO	B	T	E	X
MW-10	**7.21**	**2.19**	0.773	**0.0674**	<0.00375	**0.0525**	0.0875

MW-27

MW-10

GRAVEL

SEEP

WELL	DRO	RRO	GRO	B	T	E	X
MW-26	**2.12**	0.789	**5.58**	0.00294	<0.00750	**0.0910**	**0.584**
MW-26*	**1.75**	0.504	**5.75**	0.00330	<0.00750	**0.0873**	**0.617**

MW-26

TANK 10

WELL	DRO	RRO	GRO	B	T	E	X
MW-27	1.43	0.573	<0.0750	<0.000450	<0.00375	<0.00375	<0.00375

MW-11R

WELL	DRO	RRO	GRO	B	T	E	X
MW-11R	0.432 J	0.368 J	0.256	**0.0918**	<0.00375	<0.00375	<0.00375

WELL	DRO	RRO	GRO	B	T	E	X
MW-29	**3.92**	0.974	**4.77**	**0.0834**	0.0226	**0.0889**	**0.416**

MW-29

MW-18

MW-16

GRATE

MW-17

MW-30

DIKE DRAIN

SHEET PILE WALL (TYP)

CONCRETE WALL (TYP)

EDGE OF SLOPE (SHEET PILE WALL)

WELL	DRO	RRO	GRO	B	T	E	X
MW-16	1.23	0.638	0.134	**0.00628**	<0.00375	<0.00375	<0.00375

FUEL DOCK

WELL	DRO	RRO	GRO	B	T	E	X
MW-30	1.22	0.608	**4.28**	**0.0738**	0.00664	**0.0468**	**0.220**

0 40

SCALE IN FEET

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	**12.9**	**3.00**	**9.94**	**0.0371**	0.0109	**0.103**	0.138

= 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
* = 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
JULY - 2024
DELTA WESTERN TERMINAL
DILLINGHAM, ALASKA

FARALLON PN: 1010-004

Drawn By: JJ Checked By: RP Date: 9/18/2024 Disk Reference: 1010-004

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TABLES

2024 GROUNDWATER MONITORING REPORT
Delta Western Dillingham
Dillingham, Alaska

Farallon PN: 1010-004

Table 1
Summary of Groundwater Elevation Data
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	37.60	9/9/2020	2.99	34.61
		6/29/2021	2.60	35.00
		9/11/2022	3.35	34.25
		8/11/2023	2.92	34.68
		7/17/2024	2.64	34.96
B2MW	37.62	9/9/2020	3.21	34.41
		6/26/2021	2.7	34.92
		9/11/2022	3.45	34.17
		8/12/2023	3.14	34.48
		7/17/2024	3.04	34.58
B3MW	39.60	9/9/2020	4.40	35.20
		6/29/2021	4.08	35.52
		9/11/2022	4.92	34.68
		8/11/2023	4.32	35.28
		7/16/2024	4.18	35.42
MW-5R	36.25	9/9/2020	3.34	32.91
		6/30/2021	2.87	33.38
		9/12/2022	3.65	32.60
		8/12/2023	3.30	32.95
		7/17/2024	3.06	33.19
MW-6	34.85	9/9/2020	1.94	32.91
		6/30/2021	1.68	33.17
		9/13/2022	2.8	32.05
		8/13/2023	2.71	32.14
		7/18/2024	2.18	32.67
MW-7	36.10	9/9/2020	6.35	29.75
		6/30/2021	5.23	30.87
		8/13/2023	5.4	30.70
		7/18/2024	5.37	30.73

Table 1
Summary of Groundwater Elevation Data
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-8	37.21	9/9/2020	0.78	36.43
		6/29/2021	0.71	36.50
		8/12/2023	0.85	36.36
		7/16/2024	0.55	36.66
MW-10	30.63	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
		8/14/2023	2.96	27.67
		7/19/2024	2.72	27.91
MW-11R	29.59	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
		8/14/2023	6.02	23.57
		7/19/2024	5.68	23.91
MW-12	36.97	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
		8/12/2023	3.49	33.48
		7/17/2024	3.38	33.59
MW-13	36.96	9/9/2020	3.29	33.67
		6/30/2021	2.86	34.10
		9/12/2022	2.87	34.09
		8/12/2023	3.32	33.64
		7/17/2024	3.29	33.67
MW-14	37.72	9/11/2020	4.79	32.93
		7/2/2021	3.8	33.92
		9/13/2022	4.72	33
		8/15/2023	5.46	32.26
		7/20/2024	5.4	32.32

Table 1
Summary of Groundwater Elevation Data
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	29.57	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
		8/14/2023	10.01	19.56
		7/19/2024	10.02	19.55
MW-19	31.46	9/9/2020	3.66	27.80
		7/2/2021	3.61	27.85
		9/14/2022	3.54	27.92
		8/13/2023	3.41	28.05
		7/18/2024	3.73	27.73
MW-20	35.14	9/9/2020	2.85	32.29
		6/30/2021	2.28	32.86
		9/13/2022	2.00	33.14
		8/12/2023	2.77	32.37
		7/17/2024	2.62	32.52
MW-23	30.89	9/9/2020	3.91	26.98
		7/2/2021	3.31	27.58
		9/26/2021	4.8	26.09
		9/12/2022	3.68	27.21
		8/13/2023	3.92	26.97
		7/18/2024	3.52	27.37
MW-24	37.35	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
		8/13/2023	8.51	28.84
		7/18/2024	8.11	29.24
MW-25	39.07	9/9/2020	5.96	33.11
		6/30/2021	5.77	33.3
		9/15/2022	6.04	33.03
		8/13/2023	6.43	32.64

Table 1
Summary of Groundwater Elevation Data
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-26	33.07	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
		8/15/2023	6.46	26.61
		7/20/2024	7.02	26.05
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
	NS	8/14/2023	2.95	NS
	NS	7/18/2024	2.42	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
	NS	8/15/2023	7.00	NS
	NS	7/20/2024	6.04	NS
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
	NS	8/15/2023	6.36	NS
	NS	7/20/2024	4.85	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
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	9/11/2020	11.08	6.28	-42.5	884.0	0.61	--	--	--	--
	6/29/2021	9.19	6.22	44.2	321.0	0.23	--	--	--	--
	9/11/2022	10.20	6.22	90.7	525.0	0.03	--	--	--	--
	8/11/2023	10.35	6.18	51.0	2.8	0.80	--	--	--	--
	7/17/2024	9.01	5.82	-32.1	274.0	1.25	--	--	--	--
B2MW	9/12/2020	11.36	5.89	-29.0	540.0	0.59	--	--	--	--
	6/29/2021	8.05	5.95	84.4	278.0	0.31	--	--	--	--
	9/11/2022	9.80	5.99	137.2	395.0	0.05	--	--	--	--
	8/12/2023	11.09	5.95	104.8	184.0	0.17	--	--	--	--
	7/17/2024	8.53	5.54	85.2	253.0	1.62	--	--	--	--
B3MW	9/12/2020	12.00	5.98	-47.9	752.0	0.96	--	--	--	--
	6/29/2021	9.21	6.25	72.0	385.0	4.45	--	--	--	--
	9/11/2022	11.50	6.10	80.6	551.0	0.38	--	--	--	--
	8/11/2023	12.12	6.12	82.8	3.2	0.19	--	--	--	--
	7/16/2024	10.20	5.73	-34.2	363.0	1.40	--	--	--	--
MW-5R	9/9/2020	10.44	5.82	160.8	306.0	1.77	--	--	--	--
	6/30/2021	9.61	6.00	165.9	193.0	0.09	--	--	--	--
	9/12/2022	9.58	6.01	173.3	221.0	1.22	--	--	--	--
	8/12/2023	10.89	5.94	69.8	185.0	2.77	--	--	--	--
	7/17/2024	8.64	5.60	41.2	140.0	0.33	--	--	--	--
MW-6	9/9/2020	11.48	6.33	134.7	144.0	1.23	--	--	--	--
	6/30/2021	8.81	6.11	110.9	226.0	0.11	--	--	--	--
	9/13/2022	11.44	6.30	66.2	291.0	0.07	--	--	--	--
	8/13/2023	11.84	6.10	80.0	393.0	0.57	--	--	--	--
	7/18/2024	10.46	5.69	53.9	190.0	0.33	--	--	--	--
MW-7	9/10/2020	8.47	6.04	-2.0	635.0	0.85	--	--	--	--
	6/30/2021	7.61	6.07	116.6	316.0	0.08	--	--	--	--
	8/13/2023	8.56	6.06	62.7	194.0	0.18	--	--	--	--
	7/18/2024	7.35	5.57	28.1	204.0	0.56	--	--	--	--
MW-8	9/11/2020	13.57	6.58	-88.0	585.0	0.55	--	--	--	--
	6/29/2021	12.44	6.56	42.5	333.0	0.17	--	--	--	--
	8/12/2023	14.70	6.50	4.5	254.0	-0.01	--	--	--	--
	7/16/2024	12.90	6.04	-58.9	243.0	0.27	--	--	--	--
MW-10	9/13/2020	12.67	6.62	-66.1	912.0	0.48	0.396	0.0610 J	7.0	2.1
	7/2/2021	11.62	6.45	159.8	809.0	0.35	0.275	0.0950 J	--	--
	9/25/2021	10.26	7.61	42.2	880.0	1.05	0.424	0.0950 J	--	--
	9/14/2022	12.01	6.63	-73.8	1051.0	-0.02	--	--	5.5	1.5
	8/14/2023	12.97	6.47	0.8	5.0	2.92	0.315	R	--	--
	7/19/2024	11.47	6.70	-46.7	475.0	0.61	0.351	0.0660 J	7.0	1.2

Table 2
Summary of Groundwater Geochemical Data
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	9/13/2020	11.32	6.12	34.6	325.0	1.12	<0.100	3.90	3.75	3.0
	7/2/2021	10.13	6.07	112.3	153.0	0.45	<0.100	7.86	--	--
	9/26/2021	9.02	7.00	42.0	258.0	0.60	0.0544 J	3.10	3.0	2.8
	9/14/2022	11.95	6.21	113.6	234.0	0.05	--	--	3.3	1.7
	8/14/2023	10.60	5.95	72.1	104.0	1.37	R	1.58	2.4	1.5
	7/19/2024	6.76	6.65	-16.6	181.0	0.45	0.0784 J	4.50	6.0	3.0
MW-12	9/10/2020	9.67	6.36	-1.6	898.0	0.77	--	--	--	--
	6/30/2021	10.02	6.39	46.0	558.0	0.16	--	--	--	--
	9/25/2021	9.36	7.12	-6.2	524.0	0.52	--	--	--	--
	9/12/2022	9.12	6.33	6.8	580.0	0.02	--	--	--	--
	8/12/2023	11.26	6.35	20.1	334.0	0.23	--	--	--	--
	7/17/2024	10.20	5.95	-45.5	336.0	0.28	--	--	--	--
MW-13	9/10/2020	9.26	6.40	-34.1	1580.0	0.81	--	--	--	--
	6/30/2021	10.19	6.40	80.2	549.0	0.35	--	--	--	--
	9/12/2022	11.34	5.96	123.4	340.0	0.06	--	--	--	--
	8/12/2023	11.41	6.15	33.0	258.0	0.57	--	--	--	--
	7/17/2024	10.02	5.66	-45.0	211.0	0.61	--	--	--	--
MW-14	9/11/2020	8.37	5.86	84.8	437.0	1.00	--	--	--	--
	7/2/2021	5.67	5.94	124.3	222.0	0.59	--	--	--	--
	9/13/2022	9.20	6.07	103.3	334.0	0.34	--	--	--	--
	8/15/2023	6.92	5.84	116.1	164.0	0.37	--	--	--	--
	7/20/2024	9.74	5.76	92.4	142.0	1.60	--	--	--	--
MW-16	9/13/2020	10.67	6.56	-68.3	548.0	0.46	0.166 J	0.0960 J	5.6	3.0
	7/2/2021	6.08	6.18	122.7	299.0	2.31	0.138 J	3.00	3.0	2.0
	7/2/2021[b]	--	--	--	--	--	0.141 J	2.97	--	--
	9/26/2021	7.87	7.18	54.1	465.0	5.53	0.184 J	0.436	--	--
	9/14/2022	8.71	5.99	190.4	251.0	0.23	0.339	7.53	1.75	1.7
	8/14/2023	7.82	5.98	96.6	176.0	0.21	0.110 J	1.73	3.0	2.6
	8/14/2023[b]	--	--	--	--	--	R	R	1.0	0.0
	7/19/2024	7.09	5.99	177.0	116.0	1.02	0.283	6.73	3.0	2.6
MW-19	9/10/2020	13.56	6.77	-96.6	1464.0	0.52	--	--	--	--
	7/2/2021	9.93	6.55	158.9	660.0	0.15	--	--	--	--
	9/14/2022	13.01	6.73	-91.5	991.0	0.00	--	--	--	--
	8/13/2023	11.40	6.67	-19.7	510.0	0.19	--	--	--	--
	7/18/2024	9.53	6.16	-63.9	439.0	1.15	--	--	--	--
MW-20	9/9/2020	12.27	6.14	55.3	645.0	1.01	--	--	--	--
	6/30/2021	11.82	6.21	123.1	255.0	0.11	--	--	--	--
	9/13/2022	12.56	6.54	143.9	69.0	3.48	--	--	--	--
	8/12/2023	12.71	6.36	27.9	250.0	0.33	--	--	--	--
	7/17/2024	9.87	6.00	22.8	250.0	0.33	--	--	--	--
MW-23	9/10/2020	12.83	6.31	-8.8	1091.0	0.65	--	--	--	--
	7/2/2021	9.33	6.12	134.4	439.0	0.14	--	--	--	--
	9/26/2021	10.33	7.04	50.6	423.0	1.11	--	--	--	--
	9/14/2022	12.39	6.35	-4.4	669.0	-0.05	--	--	--	--
	8/13/2023	10.75	6.27	50.2	379.0	0.44	--	--	--	--
	7/18/2024	9.60	5.88	1.5	339.0	0.23	--	--	--	--

Table 2
Summary of Groundwater Geochemical Data
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-24	9/13/2020	10.98	6.56	-63.8	748.0	0.70	0.363	0.760	7.0	3.5
	7/2/2021	8.29	6.24	127.2	521.0	0.25	--	--	--	--
	9/26/2021	9.98	7.51	-3.4	578.0	0.53	--	--	--	--
	9/14/2022	12.62	6.57	-66.0	940.0	-0.46	--	--	--	--
	8/13/2023	9.97	6.13	68.6	350.0	0.36	--	--	--	--
	7/18/2024	10.60	6.08	-74.6	505.0	0.23	--	--	--	--
MW-26	9/13/2020	12.57	6.35	-1.0	201.0	0.65	0.137 J	<0.100	7.0	0.5
	7/1/2021	11.22	6.34	137.8	228.0	0.26	0.0588 J	0.102 J	3.0	0.6
	9/26/2021	11.53	7.21	22.0	247.0	0.40	0.0902 J	0.130 J	4.5	0.6
	9/15/2022	12.59	6.37	19.7	291.0	0.05	<0.100	0.389	3.5	0.8
	8/15/2023	12.04	6.17	1167.0	168.0	16.14	R	R	2.75	0.8
	7/20/2024	17.56	6.67	-4.9	200.0	0.72	0.128 J	0.737	4.5	1.5
	7/20/2024[6]	--	--	--	--	--	0.0837 J	0.418	--	--
MW-27	9/13/2020	11.78	6.55	-10.8	686.0	0.85	0.0710 J	15.8	4.25	2.6
	7/2/2021	9.15	6.41	138.8	612.0	0.25	0.0586 J	14.1	--	--
	9/25/2021	10.48	7.42	-15.3	604.0	0.73	0.230	2.41	--	--
	9/14/2022	11.05	6.34	27.8	707.0	0.04	0.323	0.296	--	--
	8/14/2023	11.00	6.39	25.9	493.0	5.53	0.298	0.0830 J	--	--
	7/19/2024	11.69	6.80	-15.3	417.0	0.26	0.324	0.124 J	--	--
MW-29	9/13/2020	12.43	6.66	65.3	590.0	3.08	<0.100	35.9	1.75	1.3
	7/1/2021	11.79	6.51	68.3	453.0	0.09	0.133 J	2.99	--	--
	9/26/2021	10.71	7.37	-12.3	530.0	0.58	0.179 J	0.979	--	--
	9/15/2022	12.28	6.48	13.1	432.0	0.02	0.184 J	0.0750 J	--	--
	8/15/2023	12.19	6.39	19.3	237.0	0.21	0.165 J	R	--	--
	7/20/2024	17.46	6.94	-61.4	254.0	0.57	0.197 J	0.0580 J	--	--
MW-30	9/14/2020	13.74	6.20	55.1	4748.0	1.04	0.0642 J	6.41	1.25	7.0
	7/1/2021	12.22	6.59	19.4	372.0	0.04	0.0904 J	6.78	--	--
	9/26/2021	10.54	7.49	-44.0	429.0	0.04	0.175 J	2.91	--	--
	9/15/2022	11.32	6.51	10.9	536.0	0.00	0.262	0.0850 J	--	--
	8/15/2023	13.71	6.34	77.3	221.0	0.82	R	R	3.45	1.4
	7/20/2024	14.07	6.90	-10.2	235.0	0.73	0.159 J	<0.150	--	--

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

[4]Measured using field colorimetric Hach

[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

R = result rejected due to data quality control issues.

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

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]
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**
B1MW	8/11/2023	**4.03**	**1.34**	**8.82**	**0.507**	0.0663	**0.190**	**1.68**
B1MW	7/17/2024	**1.67**	0.787	**7.75**	**0.492**	0.129	**0.311**	**2.34**
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
B2MW	8/12/2023	0.445 J	0.883	0.0870 J	**0.0129**	<0.000500	<0.000500	<0.00150
B2MW	7/17/2024	0.601	0.970	<0.0750	**0.00513**	<0.00375	<0.00375	<0.00375
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
B3MW	8/11/2023	0.803	0.982	0.463	**0.00726**	0.00144	0.00240	0.00842
B3MW	7/16/2024	0.505 J	0.635	0.517	**0.0060**	<0.00375	0.00621	0.0167
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
MW-5R	8/12/2023	**4.52**	**1.20**	0.374	**0.0786**	0.000900 J	0.00536	0.00691
MW-5R	7/17/2024	**3.89**	**1.29**	0.472	**0.130**	<0.00375	0.00995	0.0138
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**	0.0700 J	**0.00816**	<0.0005	<0.0005	<0.0015
MW-6	8/13/2023	0.857	0.758	0.107	**0.0146**	<0.000500	<0.000500	<0.00150
MW-6	7/18/2024	0.684	0.720	0.105	**0.0119**	<0.00375	<0.00375	<0.00375
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
MW-7	8/13/2023	**2.00**	0.749	0.881	**0.0688**	0.00396	0.00740	0.0701
MW-7	7/18/2024	0.892	0.601	0.598	**0.080**	0.00362 J	0.00313 J	0.0427
DUP001[5]	7/18/2024	0.751	0.479 J	0.585	**0.0807**	0.00363 J	0.00319 J	0.0423
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**
MW-8	8/12/2023	**6.24**	0.988	**2.22**	**0.00643**	0.000620 J	**0.0931**	**0.312**
MW-8D[5]	8/12/2023	**5.23**	1.02	**2.25**	**0.00637**	0.000590 J	**0.0927**	**0.310**
MW-8	7/16/2024	**2.86**	0.514	2.01	**0.00728**	<0.00375	**0.113**	**0.375**
ADEC Table C Groundwater Cleanup Levels		**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-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
MW-10	8/14/2023	**9.89**	**2.36**	0.812	**0.0811**	0.00111	**0.0635**	0.109
MW-10	7/19/2024	**7.21**	**2.19**	0.773	**0.0674**	<0.00375	**0.0525**	0.0875
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	0.302	**0.0551**	<0.0005	0.00108	0.00293 J
MW-11R-D[5]	9/14/2022	0.754	0.605	0.274	**0.0535**	<0.0005	0.000780 J	0.00228 J
MW-11R	8/14/2023	0.312 J	0.234 J	0.114	**0.0130**	<0.000500	<0.000500	<0.00150
MW-11RD[5]	8/14/2023	0.277 J	0.206 J	0.114	**0.0134**	<0.000500	<0.000500	<0.00150
MW-11R	7/19/2024	0.432 J	0.368 J	0.256	**0.0918**	<0.00375	<0.00375	<0.00375
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-12	8/12/2023	**3.51**	**1.36**	1.16	**0.131**	0.0166	0.0137	0.175
MW-12	7/17/2024	**2.52**	**1.11**	1.73	**0.126**	0.00855	**0.0198**	**0.465**
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
MW-13	8/12/2023	**19.9**	0.954	1.15	**0.0748**	0.0626	**0.0202**	0.0789
MW-13	7/17/2024	**13.8**	0.739	0.593	**0.0481**	0.0191	0.00791	0.0163
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-14	8/15/2023	**4.10**	1.02	0.515	**0.00520**	<0.000500	0.00789	0.0690
MW-14	7/20/2024	**6.84**	**1.27**	0.187	0.00137	<0.00375	<0.00375	0.00481 J
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-16	8/14/2023	1.44	0.746	0.252	**0.00523**	<0.000500	<0.000500	<0.00150
MW-16D[5]	8/14/2023	--	--	0.192	**0.00541**	<0.000500	<0.000500	<0.00150
MW-16	7/19/2024	1.23	0.638	0.134	**0.00628**	<0.00375	<0.00375	<0.00375
ADEC Table C Groundwater Cleanup Levels		**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-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	**0.128**	0.00325	**0.154**	0.142
MW-19	8/13/2023	**4.62**	0.858	2.00	**0.103**	0.00243	**0.117**	0.118
MW-19	7/18/2024	**2.46**	0.658	1.85	**0.123**	<0.00375	**0.132**	0.131
DUP002[5]	7/18/2024	**3.16**	0.750	1.85	**0.126**	<0.00375	**0.134**	0.132
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
MW-20	8/12/2023	**2.04**	0.938	0.712	**0.219**	0.000600 J	0.00908	0.00913
MW-20	7/17/2024	**3.75**	**3.09**	0.642	**0.230**	<0.00375	0.00374 J	0.00739
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**	0.00164 J	**0.0349**	**0.282**
MW-23	8/13/2023	**10.1**	**1.59**	**3.55**	**0.0965**	0.000720 J	**0.0207**	0.171
MW-23	7/18/2024	**5.87**	**1.26**	**2.23**	**0.111**	<0.00375	**0.0228**	0.183
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**	0.0142	**0.124**	**0.255**
MW-24	8/13/2023	**12.4**	**2.72**	**6.49**	**0.0541**	0.00218	**0.0564**	0.0534
MW-24	7/18/2024	**12.9**	**3.00**	**9.94**	**0.0371**	0.0109	**0.103**	0.138
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**	0.769	**9.53**	**0.0184**	0.00520 J	**0.13**	**0.783**
MW-26	8/15/2023	1.24	0.772	**7.95**	0.00323	0.00315	**0.108**	**0.654**
MW-26	7/20/2024	**2.12**	0.789	**5.58**	0.00294	<0.00750	**0.0910**	**0.584**
DUP003[5]	7/20/2024	**1.75**	0.504	**5.75**	0.00330	<0.00750	**0.0873**	**0.617**
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
MW-27	8/14/2023	**1.84**	0.709	0.0896 J	0.000510	<0.000500	<0.000500	<0.00150
MW-27	7/19/2024	1.43	0.573	<0.0750	<0.000450	<0.00375	<0.00375	<0.00375
ADEC Table C Groundwater Cleanup Levels		**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**	0.892	**6.35**	**0.476**	0.503	**0.24**	**0.532**
MW-29	8/15/2023	**2.13**	**1.12**	**6.58**	**0.255**	0.0984	**0.166**	**0.643**
MW-29	7/20/2024	**3.92**	0.974	**4.77**	**0.0834**	0.0226	**0.0889**	**0.416**
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	0.763	**5.56**	**0.139**	0.0204	**0.0651**	**0.247**
MW-30	8/15/2023	**2.39**	0.533	**4.40**	**0.0639**	0.00939	**0.0485**	**0.231**
MW-30	7/20/2024	1.22	0.608	**4.28**	**0.0738**	0.00664	**0.0468**	**0.220**
ADEC Table C Groundwater Cleanup Levels[6]		**1.5**	**1.1**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**

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

Monitoring Well	Sample Date	Analytical Results[1] (micrograms per liter)																	
		1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,3,5-Trimethylbenzene	1,4-Dichlorobenzene	4-Isopropyltoluene	Benzene	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene (Cumene)	Naphthalene	n-Butylbenzene	n-Propylbenzene	O-Xylene	P- & M-Xylene	Total Xylenes	sec-Butylbenzene	tert-Butylbenzene	Toluene
MW-10	9/13/2020	**153**	0.622	51.9	<0.250	3.24	**94.0**	<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	**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	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	**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-10	8/14/2023	**109**	0.630	38.2	<0.250	1.90	**81.1**	<0.500	**63.5**	10.8	**87.4**	<0.500	9.60	1.84	107	109	1.19	0.630 J	1.11
MW-10	7/19/2024	**102**	0.440 J	33.8	<0.375	2.00	**62.5**	<0.75	**52.6**	9.69	**101**	<0.75	8.53	1.48	86	87.5	1.11	0.430 J	0.930 J
MW-11R	9/13/2020	<0.500	<0.250	<0.500	<0.250	<0.500	**49.7**	<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	0.398 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	<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	<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	0.780 J	<0.500	<0.500	<0.500	<0.500	<0.500	1.78 J	1.78 J	<0.500	<0.500	<0.500
MW-11R	8/14/2023	<0.500	<0.250	<0.500	<0.250	<0.500	**13.0**	<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-11RD	8/14/2023	<0.500	<0.250	<0.500	<0.250	<0.500	**13.4**	<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	7/19/2024	<0.750	<0.375	<0.750	<0.375	<0.750	**79.8**	<0.750	<0.750	<0.750	<0.750	<0.750	<0.750	<0.750	<1.50	<2.25	<0.750	<0.750	<0.750
MW-16	9/13/2020	4.17	1.53	2.16	<0.250	<0.500	**10.1**	<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	<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	<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	0.510 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	0.520 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	<1.00	<1.50	<0.500	<0.500	<0.500
MW-16	8/14/2023	0.350 J	0.640	0.450 J	<0.250	<0.500	**5.23**	<0.500	<0.500	0.530 J	<0.500	<0.500	<0.500	<0.500	<1.00	<1.50	0.530 J	<0.500	<0.500
MW-16D[2]	8/14/2023	0.360 J	0.690	<0.500	<0.250	<0.500	**5.41**	<0.500	<0.500	0.590 J	<0.500	<0.500	<0.500	<0.500	<1.00	<1.50	0.650 J	<0.500	<0.500
MW-16	7/19/2024	0.360 J	0.370 J	0.350 J	<0.375	<0.750	**6.18**	<0.750	<0.750	0.490 J	<0.750	<0.750	<0.750	<0.750	<1.50	<2.25	<0.750	<0.750	<0.750
MW-26	9/13/2020	**212**	<0.500	**64.8**	<0.500	6.10	2.50	<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	**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	**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	**107**	11.6	**122**	<2.50	21.5	1.90 J	703	**705**	5.05	<2.50	3.65 J
MW-26	8/15/2023	**210**	<0.250	**69.3**	<0.250	6.89	3.23	<0.500	**108**	13.8	**118**	3.26	23.2	2.05 J	652	**654**	4.84	0.710 J	3.15
MW-26	7/20/2024	**160**	<0.375	49.6	<0.375	4.60	3.00	<0.750	**87.6**	9.63	**110**	1.30	14.8	1.56	520	**522**	2.72	0.570 J	2.90
DUP003[2]	7/20/2024	**144**	<0.375	44.6	<0.375	4.15	2.99	<0.750	**83.9**	9.18	**103**	1.34	13.2	1.38 J	490	**491**	2.46	0.510 J	2.78
ADEC Table C Cleanup Levels[3]		**56**	**1.7**	**60**	**4.8**	**NE**	**4.6**	**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
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Monitoring Well	Sample Date	Analytical Results[1] (micrograms per liter)																	
		1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,3,5-Trimethylbenzene	1,4-Dichlorobenzene	4-Isopropyltoluene	Benzene	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	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	<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	<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	<1.00	<1.50	<0.500	<0.500	<0.500
MW-27	8/14/2023	0.650 J	<0.250	0.450 J	<0.250	<0.500	0.510	<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	7/19/2024	0.310 J	<0.375	<0.750	<0.375	<0.750	0.440	<0.750	<0.750	<0.750	<0.750	<0.750	<0.750	<0.750	<1.50	<2.25	<0.750	<0.750	<0.750
MW-29	9/13/2020	**191**	<0.250	**64.1**	<0.250	3.33	**780**	<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	**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	**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	**235**	9.25	**7.60**	<2.50	10.5	46.7	486	**532**	<2.50	<2.50	443
MW-29	8/15/2023	**320**	<0.250	**125**	<0.250	6.93	**255**	<0.500	**166**	18.0	**109**	<0.500	39.4	77.4	565	**643**	5.77	2.90	98.4
MW-29	7/20/2024	**174**	<0.375	**66.3**	<0.375	4.95	**66.4**	<0.750	**69.2**	10.1	**67.7**	3.36	21.8	29.6	258	**288**	3.57	1.81	17.9
MW-30	9/14/2020	**197**	<0.250	**67.0**	<0.250	6.53 J	**791**	<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	**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	**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	**63.8**	8.06	**34.0**	<1.00	19.9	10.1	237	**247**	3.38	1.64 J	17.2
MW-30	8/15/2023	**200**	<0.250	**76.3**	<0.250	5.90	**63.9**	<0.500	**48.5**	8.23	**56.9**	<0.500	21.6	11.5	220	**231**	3.82	1.99	9.39
MW-30	7/20/2024	**132**	<0.375	50.4	<0.375	5.26	**62.5**	<0.75	**40.8**	6.47	**24.8**	4.23	15.0	7.14	174	181	2.58	1.40	6.59
ADEC Table C Cleanup Levels[3]		**56**	**1.7**	**60**	**4.8**	**NE**	**4.6**	**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
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	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-10	8/14/2023	3.66	2.68	<0.0236	<0.0236	<0.0236	<0.0236	**26.6**	<0.0471	<0.0236
MW-10	7/19/2024	5.48	4.52	0.0578	<0.0361	0.126	0.0966	**37.8**	0.114	0.892
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	0.0353 J	<0.0240	<0.0240	<0.0240	<0.0240	0.0803 J	<0.0481	<0.024
MW-11R	8/14/2023	<0.0240	<0.0240	<0.0240	<0.0240	<0.0240	<0.0240	0.0418 J	0.0538 J	<0.0240
MW-11RD[2]	8/14/2023	<0.0240	<0.0240	<0.0240	<0.0240	<0.0240	<0.0240	<0.0481	0.0408 J	<0.0240
MW-11R	7/19/2024	0.0340 J	0.0336 J	<0.0361	<0.0361	<0.0361	<0.0361	0.0558 J	<0.0721	<0.0361
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	0.0240 J	<0.0245	<0.0245	0.0178 J	<0.0245	0.0741 J	<0.0490	<0.0245
MW-16	8/14/2023	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<0.0250
MW-16D[2]	8/14/2023	<0.0240	<0.0240	<0.0240	<0.0240	<0.0240	<0.0240	<0.0481	0.0464 J	<0.0240
MW-16	7/19/2024	0.0391 J	0.0297 J	<0.0361	<0.0361	<0.0361	<0.0361	0.0422 J	<0.0721	<0.0361
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
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-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
MW-26	8/15/2023	**31.0**	21.5	0.472	<0.0240	<0.0240	1.85	**47.6**	0.710	0.0297 J
MW-26	7/20/2024	**29.1**	0.962	0.484	0.113	0.0976	1.80	**42.1**	0.749	0.204
DUP003[2]	7/20/2024	**26.4**	2.93	0.425	<0.0375	<0.0375	1.55	**38.5**	0.664	<0.0375
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	0.0367 J	0.0496	<0.0245	<0.0245	<0.0245	<0.0245	0.0431 J	<0.0490	<0.0245
MW-27	8/14/2023	0.121	0.152	<0.0236	<0.0236	<0.0236	<0.0236	0.209	0.0434 J	<0.0236
MW-27	7/19/2024	0.0804	0.0815 J	0.0154 J	<0.0361	<0.0361	<0.0361	0.112	<0.0721	<0.0361
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-29	8/15/2023	**14.1**	12.2	0.202	<0.0255	<0.0255	0.106	**27.1**	0.0525 J	<0.0255
MW-29	7/20/2024	8.52	15.1	0.227	<0.0361	<0.0361	0.0808	**25.7**	<0.0721	<0.0361
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
MW-30	8/15/2023	6.13	7.72	0.219	<0.0240	<0.0240	0.142	**15.2**	0.100	0.0425 J
MW-30	7/20/2024	4.99	6.34	0.188	<0.0361	<0.0361	0.105	**11.1**	0.0537 J	<0.0361
ADEC Table C Cleanup Levels[3]		**11**	**36**	**530**	**260**	**43**	**290**	**1.7**	**170**	**120**

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/8270E 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
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Monitoring Well	Sample Date	Analytical Results[1,2] (micrograms per liter)											
		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-10	8/14/2023	81.1	63.5	1.11	109	<0.0236	<0.0236	<0.0236	<0.0236	<0.0471	<0.0236	**254.7**	**254.7**
MW-10	7/19/2024	62.5	52.6	0.930 J	87.5	0.0578	<0.0361	0.126	0.0966	0.114	0.892	**203.5**	**204.8**
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[3]	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-11R	8/14/2023	13.0	<0.500	<0.500	<1.50	<0.0240	<0.0240	<0.0240	<0.0240	0.0538 J	<0.0240	**13.0**	**13.1**
MW-11RD[3]	8/14/2023	13.4	<0.500	<0.500	<1.50	<0.0240	<0.0240	<0.0240	<0.0240	0.0408 J	<0.0240	**13.4**	**13.4**
MW-11R	7/19/2024	79.8	<0.750	<0.750	<2.25	<0.0361	<0.0361	<0.0361	<0.0361	<0.0721	<0.0361	**79.8**	**79.8**
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[3]	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[3]	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-16	8/14/2023	5.23	<0.500	<0.500	<1.50	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<0.0250	5.23	5.23
MW-16D[3]	8/14/2023	5.41	<0.500	<0.500	<1.50	<0.0240	<0.0240	<0.0240	<0.0240	0.0464 J	<0.0240	5.41	5.46
MW-16	7/19/2024	6.18	<0.750	<0.750	<2.25	<0.0361	<0.0361	<0.0361	<0.0361	<0.0721	<0.0361	6.18	6.18
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-26	8/15/2023	3.23	108	3.15	654	0.472	<0.0240	<0.0240	1.85	0.710	0.0297 J	**768**	**771**
MW-26	7/20/2024	3.00	87.6	2.90	522	0.484	0.113	0.0976	1.80	0.749	0.204	**616**	**619**
DUP003[3]	7/20/2024	2.99	83.9	2.78	491	0.425	<0.0375	<0.0375	1.55	0.664	<0.0375	**581**	**583**
ADEC Water Quality Standards for Petroleum Hydrocarbons, Oils and Grease, for Marine Water Uses[4]												**10**	**15**

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

Monitoring Well	Sample Date	Analytical Results[1,2] (micrograms per liter)											
		Benzene	Ethylbenzene	Toluene	Total Xylenes	Acenaphthene	Acenaphthylene	Anthracene	Fluorene	Phenanthrene	Pyrene	TAH	TAqH
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-27	8/14/2023	0.510	<0.500	<0.500	<1.50	<0.0236	<0.0236	<0.0236	<0.0236	0.0434 J	<0.0236	0.51	0.55
MW-27	7/19/2024	0.440	<0.750	<0.750	<2.25	0.0154 J	<0.0361	<0.0361	<0.0361	<0.0721	<0.0361	0.44	0.46
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-29	8/15/2023	255	166	98.4	643	0.202	<0.0255	<0.0255	0.106	0.0525 J	<0.0255	**1,162**	**1,163**
MW-29	7/20/2024	66.4	69.2	17.9	288	0.227	<0.0361	<0.0361	0.0808	<0.0721	<0.0361	**442**	**442**
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**
MW-30	8/15/2023	63.9	48.5	9.39	231	0.219	<0.0240	<0.0240	0.142	0.100	0.0425 J	**353**	**353**
MW-30	7/20/2024	62.5	40.8	6.59	181	0.188	<0.0361	<0.0361	0.105	0.0537 J	<0.0361	**291**	**291**
ADEC Water Quality Standards for Petroleum Hydrocarbons, Oils and Grease, for Marine Water Uses[4]												**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/8260D (groundwater), or EPA Method 624 or EPA Method 8021B (seep water).

[2]Polynuclear aromatic hydrocarbons analyzed by EPA Method 8270 D SIM.

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

[4]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
LABORATORY ANALYTICAL REPORTS

2024 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: **1243825**

Client Project: **Dillingham Task 24**

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 Jeremy 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.

_____

Jeremy Greth Date
Project Manager
Jeremy.Greth@sgs.com

Case Narrative

SGS Client: **Delta Western-Anchorage**
SGS Project: **1243825**
Project Name/Site: **Dillingham Task 24**
Project Contact: **Paul Grabau**

Refer to sample receipt form for information on sample condition.

MW8-071624 (1243825002) PS

AK101 - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria due to matrix interference.
AK102 - LCS and LCSD recoveries for DRO do not meet QC criteria. Sample was re-extracted outside of hold and results were confirmed. The in-hold data is reported.

B3MW-071624 (1243825003) PS

AK102 - LCS and LCSD recoveries for DRO do not meet QC criteria. Sample was re-extracted outside of hold and results were confirmed. The in-hold data is reported.

B2MW-071724 (1243825004) PS

AK102 - LCS and LCSD recoveries for DRO do not meet QC criteria. Sample was re-extracted outside of hold and results were confirmed. The in-hold data is reported.

B1MW-071724 (1243825005) PS

8021B - Surrogate recovery for 1,4-difluorobenzene does not meet QC criteria due to matrix interference.
AK102 - LCS and LCSD recoveries for DRO do not meet QC criteria. Sample was re-extracted outside of hold and results were confirmed. The in-hold data is reported.

MW13-071724 (1243825006) PS

AK102 - LCS and LCSD recoveries for DRO do not meet QC criteria. Sample was re-extracted outside of hold and results were confirmed. The in-hold data is reported.

MW19-071824 (1243825012) PS

AK101 - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria due to matrix interference.

MW23-071824 (1243825013) PS

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

MW24-071824 (1243825014) PS

8021B - Surrogate recovery for 1,2-difluorobenzene does not meet QC criteria due to matrix interference.

DUP002 (1243825016) PS

AK101 - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria due to matrix interference.

MW27-071924 (1243825019) PS

8270E SIM - PAH MB failed high for 2-Methylnapthalene.

MW26-072024 (1243825023) PS

AK101 - Surrogate recoveries for 1,4-difluorobenzene and 4-bromofluorobenzene do not meet QC criteria due to matrix interference.

MW29-072024 (1243825024) PS

AK101/8021B - Surrogate recoveries for 4-bromofluorobenzene and 1,4-difluorobenzene do not meet QC criteria due to matrix interference.
8270E SIM - PAH surrogate recovery for 2-Methylnaphthalene-d10 and Fluoranthene-d10 do not meet QC criteria.

MW30-072024 (1243825025) PS

AK101/8021B - Surrogate recoveries for 4-bromofluorobenzene and 1,4-difluorobenzene do not meet QC criteria due to matrix interference.

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Case Narrative

SGS Client: **Delta Western-Anchorage**
SGS Project: **1243825**
Project Name/Site: **Dillingham Task 24**
Project Contact: **Paul Grabau**

DUP003 (1243825026) PS

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

MB for HBN 1895788 [XXX/49906] (1776675) MB

8270E SIM - PAH MB failed high for 2-Methylnapthalene.

LCS for HBN 1895899 [XXX/49919 (1777018) LCS

8270E SIM - PAH LCS recoveries for several analytes do not meet QC criteria.

LCSD for HBN 1895899 [XXX/4991 (1777019) LCSD

8270E SIM - PAH LCS/LCSD RPD for several analytes do not meet QC criteria. The associated sample concentrations for these analytes are less than the LOQ.

1243862001MS (1777025) MS

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

1243862001MSD (1777026) MSD

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

LCSD for HBN 1895935 [VXX/4154 (1777104) LCSD

8021B - LCSD recovery for 1,4-difluorobenzene does not meet QC criteria. Analytes in the associated samples are reported below the LOQ.
8021B - LCSD recovery for benzene does not meet QC criteria. Benzene was not detected above LOQ in all associated samples.

LCS for HBN 1896188 [XXX/49933 (1777396) LCS

AK102 - LCS recovery for DRO does not meet QC criteria.

LCSD for HBN 1896188 [XXX/4993 (1777397) LCSD

AK102 - LCSD recovery for DRO does not meet QC criteria.

MB for HBN 1896351 [XXX/49951] (1778164) MB

AK102/103 - RRO is detect in the MB above one-half the LOQ but less than the LOQ. All associated samples are either non-DOD or only reporting DRO.

LCS for HBN 1896468 [VXX/41584 (1778336) LCS

8260D - LCS recovery for 1-chlorohexane, cyclohexane, n-hexane, and diethyl ether does not meet QC criteria. These analytes were not reported in associated samples.

LCSD for HBN 1896468 [VXX/4158 (1778337) LCSD

8260D - LCSD recovery for cyclohexane, n-hexane, and diethyl ether does not meet QC criteria. These analytes were not reported in associated samples.

LCS for HBN 1896470 [VXX/41585 (1778350) LCS

8021B - LCS recovery for benzene does not meet QC criteria.

LCSD for HBN 1896470 [VXX/4158 (1778351) LCSD

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Case Narrative

SGS Client: **Delta Western-Anchorage**
SGS Project: **1243825**
Project Name/Site: **Dillingham Task 24**
Project Contact: **Paul Grabau**

8021B - LCSD RPD for benzene, toluene, ethylbenzene, and o-xylene does not meet criteria.

MB for HBN 1896479 [XXX/49957] (1778429) MB

AK103 - RRO is detect in the MB above one-half the LOQ. All associated samples are non-DOD.

LCS for HBN 1896755 [VXX/41595 (1778854) LCS

8260D - LCS recovery for cyclohexane, n-hexane, and diethyl ether does not meet QC criteria. These analytes were not reported in associated samples.

LCSD for HBN 1896755 [VXX/4159 (1778855) LCSD

8260D - LCSD recovery for 1-chlorohexane, cyclohexane, n-hexane, and diethyl ether does not meet QC criteria. These analytes were not reported in associated samples.

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

SGS North America Inc.
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Report of Manual Integrations

Laboratory ID	Client Sample ID	Analytical Batch	Analyte	Reason
8270E SIM LV (PAH)				
1243825018	MW10-071924	XMS14390	Benzo[b]Fluoranthene	RP
SW8021B				
1243825003	B3MW-071624	VFC16916	Benzene	BLC
1243825003	B3MW-071624	VFC16916	Toluene	BLC
1243825006	MW13-071724	VFC16916	o-Xylene	BLC
1243825013	MW23-071824	VFC16906	Toluene	SP
1243825014	MW24-071824	VFC16912	Benzene	SP
1243825014	MW24-071824	VFC16912	o-Xylene	BLC
1243825014	MW24-071824	VFC16912	P & M -Xylene	SP
1243825014	MW24-071824	VFC16912	Toluene	SP
1243825022	MW14-072024	VFC16916	P & M -Xylene	BLC
1243825022	MW14-072024	VFC16916	Toluene	BLC
1243825023	MW26-072024	VFC16916	Benzene	BLC
1243825023	MW26-072024	VFC16916	o-Xylene	BLC
1243825023	MW26-072024	VFC16916	Toluene	BLC
1243825024	MW29-072024	VFC16916	Benzene	BLC
1243825024	MW29-072024	VFC16916	Toluene	BLC
1243825025	MW30-072024	VFC16916	Benzene	BLC
1243825025	MW30-072024	VFC16916	o-Xylene	BLC
1243825025	MW30-072024	VFC16921	Toluene	BLC
1243825026	DUP003	VFC16916	Benzene	BLC
1243825026	DUP003	VFC16921	Toluene	BLC
SW8260D				
1243825018	MW10-071924	VMS23484	4-Isopropyltoluene	SP
1243825018	MW10-071924	VMS23484	tert-Butylbenzene	SP
1243825023	MW26-072024	VMS23484	4-Isopropyltoluene	SP
1243825023	MW26-072024	VMS23484	n-Butylbenzene	SP
1243825023	MW26-072024	VMS23484	tert-Butylbenzene	SP
1243825024	MW29-072024	VMS23484	4-Isopropyltoluene	SP
1243825024	MW29-072024	VMS23484	n-Butylbenzene	SP
1243825025	MW30-072024	VMS23484	4-Isopropyltoluene	SP
1243825025	MW30-072024	VMS23484	n-Butylbenzene	SP
1243825026	DUP003	VMS23484	4-Isopropyltoluene	SP
1243825026	DUP003	VMS23484	n-Butylbenzene	SP
1243825026	DUP003	VMS23484	tert-Butylbenzene	SP

Report of Manual Integrations

Laboratory ID	Client Sample ID	Analytical Batch	Analyte	Reason

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.

SGS North America Inc.
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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, 8270E, 8270E-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., 3/4 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.

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
Trip Blank 01	1243825001	07/16/2024	07/22/2024	Water (Surface, Eff., Ground)
MW8-071624	1243825002	07/16/2024	07/22/2024	Water (Surface, Eff., Ground)
B3MW-071624	1243825003	07/16/2024	07/22/2024	Water (Surface, Eff., Ground)
B2MW-071724	1243825004	07/17/2024	07/22/2024	Water (Surface, Eff., Ground)
B1MW-071724	1243825005	07/17/2024	07/22/2024	Water (Surface, Eff., Ground)
MW13-071724	1243825006	07/17/2024	07/22/2024	Water (Surface, Eff., Ground)
MW12-071724	1243825007	07/17/2024	07/22/2024	Water (Surface, Eff., Ground)
MW5R-071724	1243825008	07/17/2024	07/22/2024	Water (Surface, Eff., Ground)
MW20-071724	1243825009	07/17/2024	07/22/2024	Water (Surface, Eff., Ground)
MW7-071824	1243825010	07/18/2024	07/22/2024	Water (Surface, Eff., Ground)
MW6-071824	1243825011	07/18/2024	07/22/2024	Water (Surface, Eff., Ground)
MW19-071824	1243825012	07/18/2024	07/22/2024	Water (Surface, Eff., Ground)
MW23-071824	1243825013	07/18/2024	07/22/2024	Water (Surface, Eff., Ground)
MW24-071824	1243825014	07/18/2024	07/22/2024	Water (Surface, Eff., Ground)
DUP001	1243825015	07/18/2024	07/22/2024	Water (Surface, Eff., Ground)
DUP002	1243825016	07/18/2024	07/22/2024	Water (Surface, Eff., Ground)
Trip Blank 02	1243825017	07/19/2024	07/22/2024	Water (Surface, Eff., Ground)
MW10-071924	1243825018	07/19/2024	07/22/2024	Water (Surface, Eff., Ground)
MW27-071924	1243825019	07/19/2024	07/22/2024	Water (Surface, Eff., Ground)
MW16-071924	1243825020	07/19/2024	07/22/2024	Water (Surface, Eff., Ground)
MW11R-071924	1243825021	07/19/2024	07/22/2024	Water (Surface, Eff., Ground)
MW14-072024	1243825022	07/20/2024	07/22/2024	Water (Surface, Eff., Ground)
MW26-072024	1243825023	07/20/2024	07/22/2024	Water (Surface, Eff., Ground)
MW29-072024	1243825024	07/20/2024	07/22/2024	Water (Surface, Eff., Ground)
MW30-072024	1243825025	07/20/2024	07/22/2024	Water (Surface, Eff., Ground)
DUP003	1243825026	07/20/2024	07/22/2024	Water (Surface, Eff., Ground)
EB381-072124	1243825027	07/21/2024	07/22/2024	Water (Surface, Eff., Ground)

Method	Method Description
8270E SIM LV (PAH)	8270 PAH SIM GC/MS LV
AK101	AK101/8021 Combo.
SW8021B	AK101/8021 Combo.
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

Detectable Results Summary

Client Sample ID: **MW8-071624**
Lab Sample ID: 1243825002

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	2.86	mg/L
	Residual Range Organics	0.514	mg/L
Volatile Fuels	Benzene	7.28	ug/L
	Ethylbenzene	113	ug/L
	Gasoline Range Organics	2.01	mg/L
	P & M -Xylene	373	ug/L
	Xylenes (total)	375	ug/L

Client Sample ID: **B3MW-071624**
Lab Sample ID: 1243825003

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.505J	mg/L
	Residual Range Organics	0.635	mg/L
Volatile Fuels	Benzene	6.00	ug/L
	Ethylbenzene	6.21	ug/L
	Gasoline Range Organics	0.517	mg/L
	o-Xylene	2.90J	ug/L
	P & M -Xylene	13.8	ug/L
	Xylenes (total)	16.7	ug/L

Client Sample ID: **B2MW-071724**
Lab Sample ID: 1243825004

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.601	mg/L
	Residual Range Organics	0.970	mg/L
Volatile Fuels	Benzene	5.13	ug/L

Client Sample ID: **B1MW-071724**
Lab Sample ID: 1243825005

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	1.67	mg/L
	Residual Range Organics	0.787	mg/L
Volatile Fuels	Benzene	492	ug/L
	Ethylbenzene	311	ug/L
	Gasoline Range Organics	7.75	mg/L
	o-Xylene	313	ug/L
	P & M -Xylene	2020	ug/L
	Toluene	129	ug/L
	Xylenes (total)	2340	ug/L

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Detectable Results Summary

Client Sample ID: **MW13-071724**
Lab Sample ID: 1243825006

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	13.8	mg/L
	Residual Range Organics	0.739	mg/L
Volatile Fuels	Benzene	48.1	ug/L
	Ethylbenzene	7.91	ug/L
	Gasoline Range Organics	0.593	mg/L
	P & M -Xylene	13.8	ug/L
	Toluene	19.1	ug/L
	Xylenes (total)	16.3	ug/L

Client Sample ID: **MW12-071724**
Lab Sample ID: 1243825007

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	2.52	mg/L
	Residual Range Organics	1.11	mg/L
Volatile Fuels	Benzene	126	ug/L
	Ethylbenzene	19.8	ug/L
	Gasoline Range Organics	1.73	mg/L
	o-Xylene	160	ug/L
	P & M -Xylene	306	ug/L
	Toluene	8.55	ug/L
	Xylenes (total)	465	ug/L

Client Sample ID: **MW5R-071724**
Lab Sample ID: 1243825008

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	3.89	mg/L
	Residual Range Organics	1.29	mg/L
Volatile Fuels	Benzene	130	ug/L
	Ethylbenzene	9.95	ug/L
	Gasoline Range Organics	0.472	mg/L
	o-Xylene	2.60J	ug/L
	P & M -Xylene	11.2	ug/L
	Xylenes (total)	13.8	ug/L

Client Sample ID: **MW20-071724**
Lab Sample ID: 1243825009

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	3.75	mg/L
	Residual Range Organics	3.09	mg/L
Volatile Fuels	Benzene	230	ug/L
	Ethylbenzene	3.74J	ug/L
	Gasoline Range Organics	0.642	mg/L
	o-Xylene	6.08	ug/L
	Xylenes (total)	7.39	ug/L

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Detectable Results Summary

Client Sample ID: **MW7-071824**
Lab Sample ID: 1243825010

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.892	mg/L
	Residual Range Organics	0.601	mg/L
Volatile Fuels	Benzene	80.0	ug/L
	Ethylbenzene	3.13J	ug/L
	Gasoline Range Organics	0.598	mg/L
	o-Xylene	22.0	ug/L
	P & M -Xylene	20.7	ug/L
	Toluene	3.62J	ug/L
	Xylenes (total)	42.7	ug/L

Client Sample ID: **MW6-071824**
Lab Sample ID: 1243825011

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.684	mg/L
	Residual Range Organics	0.720	mg/L
Volatile Fuels	Benzene	11.9	ug/L
	Gasoline Range Organics	0.105	mg/L

Client Sample ID: **MW19-071824**
Lab Sample ID: 1243825012

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	2.46	mg/L
	Residual Range Organics	0.658	mg/L
Volatile Fuels	Benzene	123	ug/L
	Ethylbenzene	132	ug/L
	Gasoline Range Organics	1.85	mg/L
	o-Xylene	3.81J	ug/L
	P & M -Xylene	127	ug/L
	Xylenes (total)	131	ug/L

Client Sample ID: **MW23-071824**
Lab Sample ID: 1243825013

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	5.87	mg/L
	Residual Range Organics	1.26	mg/L
Volatile Fuels	Benzene	111	ug/L
	Ethylbenzene	22.8	ug/L
	Gasoline Range Organics	2.23	mg/L
	o-Xylene	12.9	ug/L
	P & M -Xylene	170	ug/L
	Xylenes (total)	183	ug/L

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Detectable Results Summary

Client Sample ID: **MW24-071824**
Lab Sample ID: 1243825014

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	12.9	mg/L
	Residual Range Organics	3.00	mg/L
Volatile Fuels	Benzene	37.1	ug/L
	Ethylbenzene	103	ug/L
	Gasoline Range Organics	9.94	mg/L
	P & M -Xylene	135	ug/L
	Toluene	10.9	ug/L
	Xylenes (total)	138	ug/L

Client Sample ID: **DUP001**
Lab Sample ID: 1243825015

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	0.751	mg/L
	Residual Range Organics	0.479J	mg/L
Volatile Fuels	Benzene	80.7	ug/L
	Ethylbenzene	3.19J	ug/L
	Gasoline Range Organics	0.585	mg/L
	o-Xylene	22.0	ug/L
	P & M -Xylene	20.3	ug/L
	Toluene	3.63J	ug/L
	Xylenes (total)	42.3	ug/L

Client Sample ID: **DUP002**
Lab Sample ID: 1243825016

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	3.16	mg/L
	Residual Range Organics	0.750	mg/L
Volatile Fuels	Benzene	126	ug/L
	Ethylbenzene	134	ug/L
	Gasoline Range Organics	1.85	mg/L
	o-Xylene	3.85J	ug/L
	P & M -Xylene	128	ug/L
	Xylenes (total)	132	ug/L

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Detectable Results Summary

Client Sample ID: **MW10-071924**
Lab Sample ID: 1243825018

	Parameter	Result	Units
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	5.48	ug/L
	2-Methylnaphthalene	4.52	ug/L
	Acenaphthene	0.0578	ug/L
	Anthracene	0.126	ug/L
	Benzo(a)Anthracene	0.172	ug/L
	Benzo[a]pyrene	0.0633	ug/L
	Benzo[b]Fluoranthene	0.352	ug/L
	Benzo[g,h,i]perylene	0.754	ug/L
	Benzo[k]fluoranthene	0.800	ug/L
	Chrysene	0.216	ug/L
	Dibenzo[a,h]anthracene	0.253	ug/L
	Fluoranthene	1.83	ug/L
	Fluorene	0.0966	ug/L
	Indeno[1,2,3-c,d] pyrene	0.609	ug/L
	Naphthalene	37.8	ug/L
	Phenanthrene	0.114	ug/L
	Pyrene	0.892	ug/L
Semivolatile Organic Fuels	Diesel Range Organics	7.21	mg/L
	Residual Range Organics	2.19	mg/L
Volatile Fuels	Benzene	67.4	ug/L
	Ethylbenzene	52.5	ug/L
	Gasoline Range Organics	0.773	mg/L
	P & M -Xylene	86.0	ug/L
	Xylenes (total)	87.5	ug/L
Volatile GC/MS	1,2,4-Trimethylbenzene	102	ug/L
	1,2-Dichloroethane	0.440J	ug/L
	1,3,5-Trimethylbenzene	33.8	ug/L
	4-Isopropyltoluene	2.00	ug/L
	Benzene	62.5	ug/L
	Ethylbenzene	52.6	ug/L
	Isopropylbenzene (Cumene)	9.69	ug/L
	Naphthalene	101	ug/L
	n-Propylbenzene	8.53	ug/L
	o-Xylene	1.48	ug/L
	P & M -Xylene	86.0	ug/L
	sec-Butylbenzene	1.11	ug/L
	tert-Butylbenzene	0.430J	ug/L
	Toluene	0.930J	ug/L
	Xylenes (total)	87.5	ug/L
Waters Department	Sulfate	0.0660J	mg/L
	Total Nitrate/Nitrite-N	0.351	mg/L

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Detectable Results Summary

Client Sample ID: **MW27-071924**
Lab Sample ID: 1243825019

	Parameter	Result	Units
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	0.0804	ug/L
	2-Methylnaphthalene	0.0815	ug/L
	Acenaphthene	0.0154J	ug/L
	Fluoranthene	0.0155J	ug/L
	Naphthalene	0.112	ug/L
Semivolatile Organic Fuels	Diesel Range Organics	1.43	mg/L
	Residual Range Organics	0.573	mg/L
Volatile GC/MS	1,2,4-Trimethylbenzene	0.310J	ug/L
	Benzene	0.440	ug/L
Waters Department	Sulfate	0.124J	mg/L
	Total Nitrate/Nitrite-N	0.324	mg/L

Client Sample ID: **MW16-071924**
Lab Sample ID: 1243825020

	Parameter	Result	Units
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	0.0391J	ug/L
	2-Methylnaphthalene	0.0297J	ug/L
	Naphthalene	0.0422J	ug/L
Semivolatile Organic Fuels	Diesel Range Organics	1.23	mg/L
	Residual Range Organics	0.638	mg/L
Volatile Fuels	Benzene	6.28	ug/L
	Gasoline Range Organics	0.134	mg/L
Volatile GC/MS	1,2,4-Trimethylbenzene	0.360J	ug/L
	1,2-Dichloroethane	0.370J	ug/L
	1,3,5-Trimethylbenzene	0.350J	ug/L
	Benzene	6.18	ug/L
	Isopropylbenzene (Cumene)	0.490J	ug/L
Waters Department	Sulfate	6.73	mg/L
	Total Nitrate/Nitrite-N	0.283	mg/L

Client Sample ID: **MW11R-071924**
Lab Sample ID: 1243825021

	Parameter	Result	Units
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	0.0340J	ug/L
	2-Methylnaphthalene	0.0336J	ug/L
	Naphthalene	0.0558J	ug/L
Semivolatile Organic Fuels	Diesel Range Organics	0.432J	mg/L
	Residual Range Organics	0.368J	mg/L
Volatile Fuels	Benzene	91.8	ug/L
	Gasoline Range Organics	0.256	mg/L
Volatile GC/MS	Benzene	79.8	ug/L
Waters Department	Sulfate	4.50	mg/L
	Total Nitrate/Nitrite-N	0.0784J	mg/L

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Detectable Results Summary

Client Sample ID: **MW14-072024**
Lab Sample ID: 1243825022

Semivolatile Organic Fuels

Volatile Fuels

Parameter	Result	Units
Diesel Range Organics	6.84	mg/L
Residual Range Organics	1.27	mg/L
Benzene	1.37	ug/L
Gasoline Range Organics	0.187	mg/L
o-Xylene	3.22J	ug/L
Xylenes (total)	4.81J	ug/L

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Detectable Results Summary

Client Sample ID: **MW26-072024**
Lab Sample ID: 1243825023

	Parameter	Result	Units
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	29.1	ug/L
	2-Methylnaphthalene	0.962	ug/L
	Acenaphthene	0.484	ug/L
	Acenaphthylene	0.113	ug/L
	Anthracene	0.0976	ug/L
	Benzo(a)Anthracene	0.0440J	ug/L
	Benzo[a]pyrene	0.0174J	ug/L
	Benzo[b]Fluoranthene	0.0620	ug/L
	Benzo[g,h,i]perylene	0.0832	ug/L
	Benzo[k]fluoranthene	0.128	ug/L
	Chrysene	0.0473J	ug/L
	Dibenzo[a,h]anthracene	0.0397	ug/L
	Fluoranthene	0.447	ug/L
	Fluorene	1.80	ug/L
	Indeno[1,2,3-c,d] pyrene	0.0884	ug/L
	Naphthalene	42.1	ug/L
	Phenanthrene	0.749	ug/L
	Pyrene	0.204	ug/L
Semivolatile Organic Fuels	Diesel Range Organics	2.12	mg/L
	Residual Range Organics	0.789	mg/L
Volatile Fuels	Benzene	2.94	ug/L
	Ethylbenzene	91.0	ug/L
	Gasoline Range Organics	5.58	mg/L
	P & M -Xylene	581	ug/L
	Xylenes (total)	584	ug/L
Volatile GC/MS	1,2,4-Trimethylbenzene	160	ug/L
	1,3,5-Trimethylbenzene	49.6	ug/L
	4-Isopropyltoluene	4.60	ug/L
	Benzene	3.00	ug/L
	Ethylbenzene	87.6	ug/L
	Isopropylbenzene (Cumene)	9.63	ug/L
	Naphthalene	110	ug/L
	n-Butylbenzene	1.30	ug/L
	n-Propylbenzene	14.8	ug/L
	o-Xylene	1.56J	ug/L
	P & M -Xylene	520	ug/L
	sec-Butylbenzene	2.72	ug/L
	tert-Butylbenzene	0.570J	ug/L
	Toluene	2.90	ug/L
	Xylenes (total)	522	ug/L
Waters Department	Sulfate	0.737	mg/L
	Total Nitrate/Nitrite-N	0.128J	mg/L

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Detectable Results Summary

Client Sample ID: **MW29-072024**
Lab Sample ID: 1243825024

	Parameter	Result	Units
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	8.52	ug/L
	2-Methylnaphthalene	15.1	ug/L
	Acenaphthene	0.227	ug/L
	Fluorene	0.0808	ug/L
	Naphthalene	25.7	ug/L
Semivolatile Organic Fuels	Diesel Range Organics	3.92	mg/L
	Residual Range Organics	0.974	mg/L
Volatile Fuels	Benzene	83.4	ug/L
	Ethylbenzene	88.9	ug/L
	Gasoline Range Organics	4.77	mg/L
	o-Xylene	48.0	ug/L
	P & M -Xylene	368	ug/L
	Toluene	22.6	ug/L
	Xylenes (total)	416	ug/L
Volatile GC/MS	1,2,4-Trimethylbenzene	174	ug/L
	1,3,5-Trimethylbenzene	66.3	ug/L
	4-Isopropyltoluene	4.95	ug/L
	Benzene	66.4	ug/L
	Ethylbenzene	69.2	ug/L
	Isopropylbenzene (Cumene)	10.1	ug/L
	Naphthalene	67.7	ug/L
	n-Butylbenzene	3.36	ug/L
	n-Propylbenzene	21.8	ug/L
	o-Xylene	29.6	ug/L
	P & M -Xylene	258	ug/L
	sec-Butylbenzene	3.57	ug/L
	tert-Butylbenzene	1.81	ug/L
	Toluene	17.9	ug/L
	Xylenes (total)	288	ug/L
Waters Department	Sulfate	0.0580J	mg/L
	Total Nitrate/Nitrite-N	0.197J	mg/L

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Detectable Results Summary

Client Sample ID: **MW30-072024**
Lab Sample ID: 1243825025

	Parameter	Result	Units
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	4.99	ug/L
	2-Methylnaphthalene	6.34	ug/L
	Acenaphthene	0.188	ug/L
	Fluorene	0.105	ug/L
	Naphthalene	11.1	ug/L
	Phenanthrene	0.0537J	ug/L
Semivolatile Organic Fuels	Diesel Range Organics	1.22	mg/L
	Residual Range Organics	0.608	mg/L
Volatile Fuels	Benzene	73.8	ug/L
	Ethylbenzene	46.8	ug/L
	Gasoline Range Organics	4.28	mg/L
	o-Xylene	11.2	ug/L
	P & M -Xylene	208	ug/L
	Toluene	6.64	ug/L
	Xylenes (total)	220	ug/L
Volatile GC/MS	1,2,4-Trimethylbenzene	132	ug/L
	1,3,5-Trimethylbenzene	50.4	ug/L
	4-Isopropyltoluene	5.26	ug/L
	Benzene	62.5	ug/L
	Ethylbenzene	40.8	ug/L
	Isopropylbenzene (Cumene)	6.47	ug/L
	Naphthalene	24.8	ug/L
	n-Butylbenzene	4.23	ug/L
	n-Propylbenzene	15.0	ug/L
	o-Xylene	7.14	ug/L
	P & M -Xylene	174	ug/L
	sec-Butylbenzene	2.58	ug/L
	tert-Butylbenzene	1.40	ug/L
	Toluene	6.59	ug/L
	Xylenes (total)	181	ug/L
Waters Department	Total Nitrate/Nitrite-N	0.159J	mg/L

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Detectable Results Summary

Client Sample ID: **DUP003**
Lab Sample ID: 1243825026

	Parameter	Result	Units
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	26.4	ug/L
	2-Methylnaphthalene	2.93	ug/L
	Acenaphthene	0.425	ug/L
	Fluorene	1.55	ug/L
	Naphthalene	38.5	ug/L
	Phenanthrene	0.664	ug/L
Semivolatile Organic Fuels	Diesel Range Organics	1.75	mg/L
	Residual Range Organics	0.504	mg/L
Volatile Fuels	Benzene	3.30	ug/L
	Ethylbenzene	87.3	ug/L
	Gasoline Range Organics	5.75	mg/L
	P & M -Xylene	612	ug/L
	Xylenes (total)	617	ug/L
Volatile GC/MS	1,2,4-Trimethylbenzene	144	ug/L
	1,3,5-Trimethylbenzene	44.6	ug/L
	4-Isopropyltoluene	4.15	ug/L
	Benzene	2.99	ug/L
	Ethylbenzene	83.9	ug/L
	Isopropylbenzene (Cumene)	9.18	ug/L
	Naphthalene	103	ug/L
	n-Butylbenzene	1.34	ug/L
	n-Propylbenzene	13.2	ug/L
	o-Xylene	1.38J	ug/L
	P & M -Xylene	490	ug/L
	sec-Butylbenzene	2.46	ug/L
	tert-Butylbenzene	0.510J	ug/L
	Toluene	2.78	ug/L
	Xylenes (total)	491	ug/L
Waters Department	Sulfate	0.418	mg/L
	Total Nitrate/Nitrite-N	0.0837J	mg/L

Client Sample ID: **EB381-072124**
Lab Sample ID: 1243825027

	Parameter	Result	Units
Polynuclear Aromatics GC/MS	1-Methylnaphthalene	0.143	ug/L
	2-Methylnaphthalene	0.231	ug/L
	Fluorene	0.0148J	ug/L
	Naphthalene	0.0919J	ug/L
Volatile Fuels	Gasoline Range Organics	0.0590J	mg/L
Volatile GC/MS	Chloroform	0.350J	ug/L

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

Results of **Trip Blank 01**

Client Sample ID: **Trip Blank 01**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825001
Lab Project ID: 1243825

Collection Date: 07/16/24 12:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0750	U	0.100	0.0450	0.0750	mg/L	1		07/26/24 01:23
Surrogates									
4-Bromofluorobenzene (surr)	81.9		50-150			%	1		07/26/24 01:23

Batch Information

Analytical Batch: VFC16909
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/26/24 01:23
Container ID: 1243825001-B

Prep Batch: VXX41545
Prep Method: SW5030B
Prep Date/Time: 07/25/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.450	U	0.600	0.150	0.450	ug/L	1		07/26/24 01:23
Ethylbenzene	3.75	U	5.00	2.50	3.75	ug/L	1		07/26/24 01:23
o-Xylene	3.75	U	5.00	2.50	3.75	ug/L	1		07/26/24 01:23
P & M -Xylene	3.75	U	5.00	2.50	3.75	ug/L	1		07/26/24 01:23
Toluene	3.75	U	5.00	2.50	3.75	ug/L	1		07/26/24 01:23
Xylenes (total)	3.75	U	5.00	2.50	3.75	ug/L	1		07/26/24 01:23
Surrogates									
1,4-Difluorobenzene (surr)	109		77-115			%	1		07/26/24 01:23

Batch Information

Analytical Batch: VFC16909
Analytical Method: SW8021B
Analyst: EJB
Analytical Date/Time: 07/26/24 01:23
Container ID: 1243825001-B

Prep Batch: VXX41545
Prep Method: SW5030B
Prep Date/Time: 07/25/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **MW8-071624**

Client Sample ID: **MW8-071624**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825002
Lab Project ID: 1243825

Collection Date: 07/16/24 15:45
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	2.86		0.588	0.196	0.441	mg/L	1		07/31/24 02:14
Surrogates									
5a Androstane (surr)	70.7		50-150			%	1		07/31/24 02:14

Batch Information

Analytical Batch: XFC16974
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 07/31/24 02:14
Container ID: 1243825002-D

Prep Batch: XXX49933
Prep Method: SW3520C
Prep Date/Time: 07/29/24 19:26
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.514		0.490	0.196	0.367	mg/L	1		07/31/24 02:14
Surrogates									
n-Triacontane-d62 (surr)	88.1		50-150			%	1		07/31/24 02:14

Batch Information

Analytical Batch: XFC16974
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 07/31/24 02:14
Container ID: 1243825002-D

Prep Batch: XXX49933
Prep Method: SW3520C
Prep Date/Time: 07/29/24 19:26
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Results of **MW8-071624**

Client Sample ID: **MW8-071624**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825002
Lab Project ID: 1243825

Collection Date: 07/16/24 15:45
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	2.01		0.100	0.0450	0.0750	mg/L	1		07/25/24 03:37
Surrogates									
4-Bromofluorobenzene (surr)	256	*	50-150			%	1		07/25/24 03:37

Batch Information

Analytical Batch: VFC16906
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/25/24 03:37
Container ID: 1243825002-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	7.28		0.600	0.150	0.450	ug/L	1		07/25/24 03:37
Ethylbenzene	113		5.00	2.50	3.75	ug/L	1		07/25/24 03:37
o-Xylene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 03:37
P & M -Xylene	373		5.00	2.50	3.75	ug/L	1		07/25/24 03:37
Toluene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 03:37
Xylenes (total)	375		5.00	2.50	3.75	ug/L	1		07/25/24 03:37
Surrogates									
1,4-Difluorobenzene (surr)	98.8		77-115			%	1		07/25/24 03:37

Batch Information

Analytical Batch: VFC16906
Analytical Method: SW8021B
Analyst: EJB
Analytical Date/Time: 07/25/24 03:37
Container ID: 1243825002-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **B3MW-071624**

Client Sample ID: **B3MW-071624**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825003
Lab Project ID: 1243825

Collection Date: 07/16/24 17:25
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.505	J	0.588	0.196	0.441	mg/L	1		07/31/24 02:24
Surrogates									
5a Androstane (surr)	59.6		50-150			%	1		07/31/24 02:24

Batch Information

Analytical Batch: XFC16974
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 07/31/24 02:24
Container ID: 1243825003-D

Prep Batch: XXX49933
Prep Method: SW3520C
Prep Date/Time: 07/29/24 19:26
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.635		0.490	0.196	0.367	mg/L	1		07/31/24 02:24
Surrogates									
n-Triacontane-d62 (surr)	83.6		50-150			%	1		07/31/24 02:24

Batch Information

Analytical Batch: XFC16974
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 07/31/24 02:24
Container ID: 1243825003-D

Prep Batch: XXX49933
Prep Method: SW3520C
Prep Date/Time: 07/29/24 19:26
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **B3MW-071624**

Client Sample ID: **B3MW-071624**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825003
Lab Project ID: 1243825

Collection Date: 07/16/24 17:25
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.517		0.100	0.0450	0.0750	mg/L	1		07/26/24 02:55
Surrogates									
4-Bromofluorobenzene (surr)	93.3		50-150			%	1		07/26/24 02:55

Batch Information

Analytical Batch: VFC16909
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/26/24 02:55
Container ID: 1243825003-B

Prep Batch: VXX41545
Prep Method: SW5030B
Prep Date/Time: 07/25/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	6.00		0.600	0.150	0.450	ug/L	1		07/30/24 04:09
Ethylbenzene	6.21		5.00	2.50	3.75	ug/L	1		07/30/24 04:09
o-Xylene	2.90	J	5.00	2.50	3.75	ug/L	1		07/30/24 04:09
P & M -Xylene	13.8		5.00	2.50	3.75	ug/L	1		07/30/24 04:09
Toluene	3.75	U	5.00	2.50	3.75	ug/L	1		07/30/24 04:09
Xylenes (total)	16.7		5.00	2.50	3.75	ug/L	1		07/30/24 04:09
Surrogates									
1,4-Difluorobenzene (surr)	108		77-115			%	1		07/30/24 04:09

Batch Information

Analytical Batch: VFC16916
Analytical Method: SW8021B
Analyst: T.L
Analytical Date/Time: 07/30/24 04:09
Container ID: 1243825003-C

Prep Batch: VXX41574
Prep Method: SW5030B
Prep Date/Time: 07/29/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **B2MW-071724**

Client Sample ID: **B2MW-071724**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825004
Lab Project ID: 1243825

Collection Date: 07/17/24 10:20
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.601		0.577	0.192	0.433	mg/L	1		07/31/24 02:33
Surrogates									
5a Androstane (surr)	72.1		50-150			%	1		07/31/24 02:33

Batch Information

Analytical Batch: XFC16974
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 07/31/24 02:33
Container ID: 1243825004-D

Prep Batch: XXX49933
Prep Method: SW3520C
Prep Date/Time: 07/29/24 19:26
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.970		0.481	0.192	0.361	mg/L	1		07/31/24 02:33
Surrogates									
n-Triacontane-d62 (surr)	97.1		50-150			%	1		07/31/24 02:33

Batch Information

Analytical Batch: XFC16974
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 07/31/24 02:33
Container ID: 1243825004-D

Prep Batch: XXX49933
Prep Method: SW3520C
Prep Date/Time: 07/29/24 19:26
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **B2MW-071724**

Client Sample ID: **B2MW-071724**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825004
Lab Project ID: 1243825

Collection Date: 07/17/24 10:20
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0750	U	0.100	0.0450	0.0750	mg/L	1		07/25/24 03:00
Surrogates									
4-Bromofluorobenzene (surr)	91.6		50-150			%	1		07/25/24 03:00

Batch Information

Analytical Batch: VFC16906
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/25/24 03:00
Container ID: 1243825004-A

Prep Batch: VXX41532
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	5.13		0.600	0.150	0.450	ug/L	1		07/25/24 03:00
Ethylbenzene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 03:00
o-Xylene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 03:00
P & M -Xylene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 03:00
Toluene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 03:00
Xylenes (total)	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 03:00
Surrogates									
1,4-Difluorobenzene (surr)	90.8		77-115			%	1		07/25/24 03:00

Batch Information

Analytical Batch: VFC16906
Analytical Method: SW8021B
Analyst: EJB
Analytical Date/Time: 07/25/24 03:00
Container ID: 1243825004-A

Prep Batch: VXX41532
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **B1MW-071724**

Client Sample ID: **B1MW-071724**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825005
Lab Project ID: 1243825

Collection Date: 07/17/24 13:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1.67		0.577	0.192	0.433	mg/L	1		07/31/24 02:43
Surrogates									
5a Androstane (surr)	61.1		50-150			%	1		07/31/24 02:43

Batch Information

Analytical Batch: XFC16974
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 07/31/24 02:43
Container ID: 1243825005-D

Prep Batch: XXX49933
Prep Method: SW3520C
Prep Date/Time: 07/29/24 19:26
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.787		0.481	0.192	0.361	mg/L	1		07/31/24 02:43
Surrogates									
n-Triacontane-d62 (surr)	86.7		50-150			%	1		07/31/24 02:43

Batch Information

Analytical Batch: XFC16974
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 07/31/24 02:43
Container ID: 1243825005-D

Prep Batch: XXX49933
Prep Method: SW3520C
Prep Date/Time: 07/29/24 19:26
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **B1MW-071724**

Client Sample ID: **B1MW-071724**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825005
Lab Project ID: 1243825

Collection Date: 07/17/24 13:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	7.75		0.500	0.225	0.375	mg/L	5		07/30/24 09:42
Surrogates									
4-Bromofluorobenzene (surr)	141		50-150			%	5		07/30/24 09:42

Batch Information

Analytical Batch: VFC16916
Analytical Method: AK101
Analyst: T.L
Analytical Date/Time: 07/30/24 09:42
Container ID: 1243825005-C

Prep Batch: VXX41574
Prep Method: SW5030B
Prep Date/Time: 07/29/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	492		3.00	0.750	2.25	ug/L	5		07/30/24 09:42
Ethylbenzene	311		25.0	12.5	18.8	ug/L	5		07/30/24 09:42
o-Xylene	313		25.0	12.5	18.8	ug/L	5		07/30/24 09:42
P & M -Xylene	2020		25.0	12.5	18.8	ug/L	5		07/30/24 09:42
Toluene	129		25.0	12.5	18.8	ug/L	5		07/30/24 09:42
Xylenes (total)	2340		25.0	12.5	18.8	ug/L	5		07/30/24 09:42
Surrogates									
1,4-Difluorobenzene (surr)	121	*	77-115			%	5		07/30/24 09:42

Batch Information

Analytical Batch: VFC16916
Analytical Method: SW8021B
Analyst: T.L
Analytical Date/Time: 07/30/24 09:42
Container ID: 1243825005-C

Prep Batch: VXX41574
Prep Method: SW5030B
Prep Date/Time: 07/29/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW13-071724**

Client Sample ID: **MW13-071724**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825006
Lab Project ID: 1243825

Collection Date: 07/17/24 14:40
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	13.8		0.588	0.196	0.441	mg/L	1		07/31/24 02:53
Surrogates									
5a Androstane (surr)	86		50-150			%	1		07/31/24 02:53

Batch Information

Analytical Batch: XFC16974
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 07/31/24 02:53
Container ID: 1243825006-D

Prep Batch: XXX49933
Prep Method: SW3520C
Prep Date/Time: 07/29/24 19:26
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.739		0.490	0.196	0.367	mg/L	1		07/31/24 02:53
Surrogates									
n-Triacontane-d62 (surr)	104		50-150			%	1		07/31/24 02:53

Batch Information

Analytical Batch: XFC16974
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 07/31/24 02:53
Container ID: 1243825006-D

Prep Batch: XXX49933
Prep Method: SW3520C
Prep Date/Time: 07/29/24 19:26
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Results of **MW13-071724**

Client Sample ID: **MW13-071724**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825006
Lab Project ID: 1243825

Collection Date: 07/17/24 14:40
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.593		0.100	0.0450	0.0750	mg/L	1		07/26/24 01:41
Surrogates									
4-Bromofluorobenzene (surr)	72.4		50-150			%	1		07/26/24 01:41

Batch Information

Analytical Batch: VFC16909
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/26/24 01:41
Container ID: 1243825006-B

Prep Batch: VXX41545
Prep Method: SW5030B
Prep Date/Time: 07/25/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	48.1		0.600	0.150	0.450	ug/L	1		07/30/24 04:46
Ethylbenzene	7.91		5.00	2.50	3.75	ug/L	1		07/30/24 04:46
o-Xylene	3.75	U	5.00	2.50	3.75	ug/L	1		07/30/24 04:46
P & M -Xylene	13.8		5.00	2.50	3.75	ug/L	1		07/30/24 04:46
Toluene	19.1		5.00	2.50	3.75	ug/L	1		07/30/24 04:46
Xylenes (total)	16.3		5.00	2.50	3.75	ug/L	1		07/30/24 04:46
Surrogates									
1,4-Difluorobenzene (surr)	79.6		77-115			%	1		07/30/24 04:46

Batch Information

Analytical Batch: VFC16916
Analytical Method: SW8021B
Analyst: T.L
Analytical Date/Time: 07/30/24 04:46
Container ID: 1243825006-C

Prep Batch: VXX41574
Prep Method: SW5030B
Prep Date/Time: 07/29/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW12-071724**

Client Sample ID: **MW12-071724**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825007
Lab Project ID: 1243825

Collection Date: 07/17/24 16:05
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	2.52		0.577	0.192	0.433	mg/L	1		08/01/24 20:12
Surrogates									
5a Androstane (surr)	75.1		50-150			%	1		08/01/24 20:12

Batch Information

Analytical Batch: XFC16975
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 08/01/24 20:12
Container ID: 1243825007-D

Prep Batch: XXX49951
Prep Method: SW3520C
Prep Date/Time: 07/31/24 17:18
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1.11		0.481	0.192	0.361	mg/L	1		08/01/24 20:12
Surrogates									
n-Triacontane-d62 (surr)	101		50-150			%	1		08/01/24 20:12

Batch Information

Analytical Batch: XFC16975
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 08/01/24 20:12
Container ID: 1243825007-D

Prep Batch: XXX49951
Prep Method: SW3520C
Prep Date/Time: 07/31/24 17:18
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **MW12-071724**

Client Sample ID: **MW12-071724**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825007
Lab Project ID: 1243825

Collection Date: 07/17/24 16:05
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	1.73		0.100	0.0450	0.0750	mg/L	1		07/25/24 09:37
Surrogates									
4-Bromofluorobenzene (surr)	102		50-150			%	1		07/25/24 09:37

Batch Information

Analytical Batch: VFC16906
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/25/24 09:37
Container ID: 1243825007-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	126		0.600	0.150	0.450	ug/L	1		07/25/24 09:37
Ethylbenzene	19.8		5.00	2.50	3.75	ug/L	1		07/25/24 09:37
o-Xylene	160		5.00	2.50	3.75	ug/L	1		07/25/24 09:37
P & M -Xylene	306		5.00	2.50	3.75	ug/L	1		07/25/24 09:37
Toluene	8.55		5.00	2.50	3.75	ug/L	1		07/25/24 09:37
Xylenes (total)	465		5.00	2.50	3.75	ug/L	1		07/25/24 09:37
Surrogates									
1,4-Difluorobenzene (surr)	90.4		77-115			%	1		07/25/24 09:37

Batch Information

Analytical Batch: VFC16906
Analytical Method: SW8021B
Analyst: EJB
Analytical Date/Time: 07/25/24 09:37
Container ID: 1243825007-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW5R-071724**

Client Sample ID: **MW5R-071724**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825008
Lab Project ID: 1243825

Collection Date: 07/17/24 17:20
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	3.89		0.612	0.204	0.459	mg/L	1		08/01/24 20:22
Surrogates									
5a Androstane (surr)	79.8		50-150			%	1		08/01/24 20:22

Batch Information

Analytical Batch: XFC16975
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 08/01/24 20:22
Container ID: 1243825008-D

Prep Batch: XXX49951
Prep Method: SW3520C
Prep Date/Time: 07/31/24 17:18
Prep Initial Wt./Vol.: 245 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1.29		0.510	0.204	0.383	mg/L	1		08/01/24 20:22
Surrogates									
n-Triacontane-d62 (surr)	104		50-150			%	1		08/01/24 20:22

Batch Information

Analytical Batch: XFC16975
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 08/01/24 20:22
Container ID: 1243825008-D

Prep Batch: XXX49951
Prep Method: SW3520C
Prep Date/Time: 07/31/24 17:18
Prep Initial Wt./Vol.: 245 mL
Prep Extract Vol: 1 mL

Results of **MW5R-071724**

Client Sample ID: **MW5R-071724**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825008
Lab Project ID: 1243825

Collection Date: 07/17/24 17:20
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.472		0.100	0.0450	0.0750	mg/L	1		07/25/24 08:59
Surrogates									
4-Bromofluorobenzene (surr)	91		50-150			%	1		07/25/24 08:59

Batch Information

Analytical Batch: VFC16906
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/25/24 08:59
Container ID: 1243825008-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	130		0.600	0.150	0.450	ug/L	1		07/25/24 08:59
Ethylbenzene	9.95		5.00	2.50	3.75	ug/L	1		07/25/24 08:59
o-Xylene	2.60	J	5.00	2.50	3.75	ug/L	1		07/25/24 08:59
P & M -Xylene	11.2		5.00	2.50	3.75	ug/L	1		07/25/24 08:59
Toluene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 08:59
Xylenes (total)	13.8		5.00	2.50	3.75	ug/L	1		07/25/24 08:59
Surrogates									
1,4-Difluorobenzene (surr)	104		77-115			%	1		07/25/24 08:59

Batch Information

Analytical Batch: VFC16906
Analytical Method: SW8021B
Analyst: EJB
Analytical Date/Time: 07/25/24 08:59
Container ID: 1243825008-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW20-071724**

Client Sample ID: **MW20-071724**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825009
Lab Project ID: 1243825

Collection Date: 07/17/24 19:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	3.75		0.577	0.192	0.433	mg/L	1		08/01/24 20:52
Surrogates									
5a Androstane (surr)	94.9		50-150			%	1		08/01/24 20:52

Batch Information

Analytical Batch: XFC16975
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 08/01/24 20:52
Container ID: 1243825009-D

Prep Batch: XXX49951
Prep Method: SW3520C
Prep Date/Time: 07/31/24 17:18
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	3.09		0.481	0.192	0.361	mg/L	1		08/01/24 20:52
Surrogates									
n-Triacontane-d62 (surr)	111		50-150			%	1		08/01/24 20:52

Batch Information

Analytical Batch: XFC16975
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 08/01/24 20:52
Container ID: 1243825009-D

Prep Batch: XXX49951
Prep Method: SW3520C
Prep Date/Time: 07/31/24 17:18
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **MW20-071724**

Client Sample ID: **MW20-071724**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825009
Lab Project ID: 1243825

Collection Date: 07/17/24 19:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.642		0.100	0.0450	0.0750	mg/L	1		07/25/24 07:43
Surrogates									
4-Bromofluorobenzene (surr)	123		50-150			%	1		07/25/24 07:43

Batch Information

Analytical Batch: VFC16906
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/25/24 07:43
Container ID: 1243825009-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	230		0.600	0.150	0.450	ug/L	1		07/25/24 07:43
Ethylbenzene	3.74	J	5.00	2.50	3.75	ug/L	1		07/25/24 07:43
o-Xylene	6.08		5.00	2.50	3.75	ug/L	1		07/25/24 07:43
P & M -Xylene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 07:43
Toluene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 07:43
Xylenes (total)	7.39		5.00	2.50	3.75	ug/L	1		07/25/24 07:43
Surrogates									
1,4-Difluorobenzene (surr)	103		77-115			%	1		07/25/24 07:43

Batch Information

Analytical Batch: VFC16906
Analytical Method: SW8021B
Analyst: EJB
Analytical Date/Time: 07/25/24 07:43
Container ID: 1243825009-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW7-071824**

Client Sample ID: **MW7-071824**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825010
Lab Project ID: 1243825

Collection Date: 07/18/24 09:45
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.892		0.577	0.192	0.433	mg/L	1		08/01/24 21:01
Surrogates									
5a Androstane (surr)	73		50-150			%	1		08/01/24 21:01

Batch Information

Analytical Batch: XFC16975
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 08/01/24 21:01
Container ID: 1243825010-D

Prep Batch: XXX49951
Prep Method: SW3520C
Prep Date/Time: 07/31/24 17:18
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.601		0.481	0.192	0.361	mg/L	1		08/01/24 21:01
Surrogates									
n-Triacontane-d62 (surr)	105		50-150			%	1		08/01/24 21:01

Batch Information

Analytical Batch: XFC16975
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 08/01/24 21:01
Container ID: 1243825010-D

Prep Batch: XXX49951
Prep Method: SW3520C
Prep Date/Time: 07/31/24 17:18
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **MW7-071824**

Client Sample ID: **MW7-071824**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825010
Lab Project ID: 1243825

Collection Date: 07/18/24 09:45
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.598		0.100	0.0450	0.0750	mg/L	1		07/25/24 09:56
Surrogates									
4-Bromofluorobenzene (surr)	101		50-150			%	1		07/25/24 09:56

Batch Information

Analytical Batch: VFC16906
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/25/24 09:56
Container ID: 1243825010-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	80.0		0.600	0.150	0.450	ug/L	1		07/25/24 09:56
Ethylbenzene	3.13	J	5.00	2.50	3.75	ug/L	1		07/25/24 09:56
o-Xylene	22.0		5.00	2.50	3.75	ug/L	1		07/25/24 09:56
P & M -Xylene	20.7		5.00	2.50	3.75	ug/L	1		07/25/24 09:56
Toluene	3.62	J	5.00	2.50	3.75	ug/L	1		07/25/24 09:56
Xylenes (total)	42.7		5.00	2.50	3.75	ug/L	1		07/25/24 09:56
Surrogates									
1,4-Difluorobenzene (surr)	109		77-115			%	1		07/25/24 09:56

Batch Information

Analytical Batch: VFC16906
Analytical Method: SW8021B
Analyst: EJB
Analytical Date/Time: 07/25/24 09:56
Container ID: 1243825010-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW6-071824**

Client Sample ID: **MW6-071824**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825011
Lab Project ID: 1243825

Collection Date: 07/18/24 11:40
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.684		0.577	0.192	0.433	mg/L	1		08/01/24 21:11
Surrogates									
5a Androstane (surr)	71.8		50-150			%	1		08/01/24 21:11

Batch Information

Analytical Batch: XFC16975
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 08/01/24 21:11
Container ID: 1243825011-D

Prep Batch: XXX49951
Prep Method: SW3520C
Prep Date/Time: 07/31/24 17:18
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.720		0.481	0.192	0.361	mg/L	1		08/01/24 21:11
Surrogates									
n-Triacontane-d62 (surr)	103		50-150			%	1		08/01/24 21:11

Batch Information

Analytical Batch: XFC16975
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 08/01/24 21:11
Container ID: 1243825011-D

Prep Batch: XXX49951
Prep Method: SW3520C
Prep Date/Time: 07/31/24 17:18
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW6-071824**

Client Sample ID: **MW6-071824**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825011
Lab Project ID: 1243825

Collection Date: 07/18/24 11:40
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.105		0.100	0.0450	0.0750	mg/L	1		07/26/24 02:00
Surrogates									
4-Bromofluorobenzene (surr)	82.9		50-150			%	1		07/26/24 02:00

Batch Information

Analytical Batch: VFC16909
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/26/24 02:00
Container ID: 1243825011-B

Prep Batch: VXX41545
Prep Method: SW5030B
Prep Date/Time: 07/25/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	11.9		0.600	0.150	0.450	ug/L	1		07/30/24 03:50
Ethylbenzene	3.75	U	5.00	2.50	3.75	ug/L	1		07/30/24 03:50
o-Xylene	3.75	U	5.00	2.50	3.75	ug/L	1		07/30/24 03:50
P & M -Xylene	3.75	U	5.00	2.50	3.75	ug/L	1		07/30/24 03:50
Toluene	3.75	U	5.00	2.50	3.75	ug/L	1		07/30/24 03:50
Xylenes (total)	3.75	U	5.00	2.50	3.75	ug/L	1		07/30/24 03:50
Surrogates									
1,4-Difluorobenzene (surr)	103		77-115			%	1		07/30/24 03:50

Batch Information

Analytical Batch: VFC16916
Analytical Method: SW8021B
Analyst: T.L
Analytical Date/Time: 07/30/24 03:50
Container ID: 1243825011-C

Prep Batch: VXX41574
Prep Method: SW5030B
Prep Date/Time: 07/29/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **MW19-071824**

Client Sample ID: **MW19-071824**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825012
Lab Project ID: 1243825

Collection Date: 07/18/24 13:20
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	2.46		0.577	0.192	0.433	mg/L	1		08/02/24 16:32
Surrogates									
5a Androstane (surr)	71.5		50-150			%	1		08/02/24 16:32

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 08/02/24 16:32
Container ID: 1243825012-D

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.658		0.481	0.192	0.361	mg/L	1		08/02/24 16:32
Surrogates									
n-Triacontane-d62 (surr)	96.2		50-150			%	1		08/02/24 16:32

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 08/02/24 16:32
Container ID: 1243825012-D

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW19-071824**

Client Sample ID: **MW19-071824**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825012
Lab Project ID: 1243825

Collection Date: 07/18/24 13:20
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	1.85		0.100	0.0450	0.0750	mg/L	1		07/25/24 08:01
Surrogates									
4-Bromofluorobenzene (surr)	240	*	50-150			%	1		07/25/24 08:01

Batch Information

Analytical Batch: VFC16906
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/25/24 08:01
Container ID: 1243825012-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	123		0.600	0.150	0.450	ug/L	1		07/25/24 08:01
Ethylbenzene	132		5.00	2.50	3.75	ug/L	1		07/25/24 08:01
o-Xylene	3.81	J	5.00	2.50	3.75	ug/L	1		07/25/24 08:01
P & M -Xylene	127		5.00	2.50	3.75	ug/L	1		07/25/24 08:01
Toluene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 08:01
Xylenes (total)	131		5.00	2.50	3.75	ug/L	1		07/25/24 08:01
Surrogates									
1,4-Difluorobenzene (surr)	111		77-115			%	1		07/25/24 08:01

Batch Information

Analytical Batch: VFC16906
Analytical Method: SW8021B
Analyst: EJB
Analytical Date/Time: 07/25/24 08:01
Container ID: 1243825012-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW23-071824**

Client Sample ID: **MW23-071824**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825013
Lab Project ID: 1243825

Collection Date: 07/18/24 15:05
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	5.87		0.577	0.192	0.433	mg/L	1		08/02/24 16:42
Surrogates									
5a Androstane (surr)	72.9		50-150			%	1		08/02/24 16:42

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 08/02/24 16:42
Container ID: 1243825013-D

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1.26		0.481	0.192	0.361	mg/L	1		08/02/24 16:42
Surrogates									
n-Triacontane-d62 (surr)	92.4		50-150			%	1		08/02/24 16:42

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 08/02/24 16:42
Container ID: 1243825013-D

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW23-071824**

Client Sample ID: **MW23-071824**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825013
Lab Project ID: 1243825

Collection Date: 07/18/24 15:05
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	2.23		0.100	0.0450	0.0750	mg/L	1		07/25/24 05:31
Surrogates									
4-Bromofluorobenzene (surr)	116		50-150			%	1		07/25/24 05:31

Batch Information

Analytical Batch: VFC16906
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/25/24 05:31
Container ID: 1243825013-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	111		0.600	0.150	0.450	ug/L	1		07/25/24 05:31
Ethylbenzene	22.8		5.00	2.50	3.75	ug/L	1		07/25/24 05:31
o-Xylene	12.9		5.00	2.50	3.75	ug/L	1		07/25/24 05:31
P & M -Xylene	170		5.00	2.50	3.75	ug/L	1		07/25/24 05:31
Toluene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 05:31
Xylenes (total)	183		5.00	2.50	3.75	ug/L	1		07/25/24 05:31
Surrogates									
1,4-Difluorobenzene (surr)	135	*	77-115			%	1		07/25/24 05:31

Batch Information

Analytical Batch: VFC16906
Analytical Method: SW8021B
Analyst: EJB
Analytical Date/Time: 07/25/24 05:31
Container ID: 1243825013-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **MW24-071824**

Client Sample ID: **MW24-071824**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825014
Lab Project ID: 1243825

Collection Date: 07/18/24 17:30
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	12.9		0.577	0.192	0.433	mg/L	1		08/02/24 16:52
Surrogates									
5a Androstane (surr)	94.1		50-150			%	1		08/02/24 16:52

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 08/02/24 16:52
Container ID: 1243825014-D

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	3.00		0.481	0.192	0.361	mg/L	1		08/02/24 16:52
Surrogates									
n-Triacontane-d62 (surr)	99.9		50-150			%	1		08/02/24 16:52

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 08/02/24 16:52
Container ID: 1243825014-D

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **MW24-071824**

Client Sample ID: **MW24-071824**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825014
Lab Project ID: 1243825

Collection Date: 07/18/24 17:30
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	9.94		0.500	0.225	0.375	mg/L	5		07/26/24 00:46
Surrogates									
4-Bromofluorobenzene (surr)	94.5		50-150			%	5		07/26/24 00:46

Batch Information

Analytical Batch: VFC16909
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/26/24 00:46
Container ID: 1243825014-B

Prep Batch: VXX41545
Prep Method: SW5030B
Prep Date/Time: 07/25/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	37.1		1.20	0.300	0.900	ug/L	2		07/27/24 03:25
Ethylbenzene	103		10.0	5.00	7.50	ug/L	2		07/27/24 03:25
o-Xylene	7.50	U	10.0	5.00	7.50	ug/L	2		07/27/24 03:25
P & M -Xylene	135		10.0	5.00	7.50	ug/L	2		07/27/24 03:25
Toluene	10.9		10.0	5.00	7.50	ug/L	2		07/27/24 03:25
Xylenes (total)	138		10.0	5.00	7.50	ug/L	2		07/27/24 03:25
Surrogates									
1,4-Difluorobenzene (surr)	127	*	77-115			%	2		07/27/24 03:25

Batch Information

Analytical Batch: VFC16912
Analytical Method: SW8021B
Analyst: T.L
Analytical Date/Time: 07/27/24 03:25
Container ID: 1243825014-B

Prep Batch: VXX41558
Prep Method: SW5030B
Prep Date/Time: 07/26/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **DUP001**

Client Sample ID: **DUP001**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825015
Lab Project ID: 1243825

Collection Date: 07/18/24 00:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.751		0.577	0.192	0.433	mg/L	1		08/02/24 17:01
Surrogates									
5a Androstane (surr)	71.3		50-150			%	1		08/02/24 17:01

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 08/02/24 17:01
Container ID: 1243825015-D

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.479	J	0.481	0.192	0.361	mg/L	1		08/02/24 17:01
Surrogates									
n-Triacontane-d62 (surr)	85.5		50-150			%	1		08/02/24 17:01

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 08/02/24 17:01
Container ID: 1243825015-D

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **DUP001**

Client Sample ID: **DUP001**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825015
Lab Project ID: 1243825

Collection Date: 07/18/24 00:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.585		0.100	0.0450	0.0750	mg/L	1		07/25/24 10:15
Surrogates									
4-Bromofluorobenzene (surr)	101		50-150			%	1		07/25/24 10:15

Batch Information

Analytical Batch: VFC16906
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/25/24 10:15
Container ID: 1243825015-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	80.7		0.600	0.150	0.450	ug/L	1		07/25/24 10:15
Ethylbenzene	3.19	J	5.00	2.50	3.75	ug/L	1		07/25/24 10:15
o-Xylene	22.0		5.00	2.50	3.75	ug/L	1		07/25/24 10:15
P & M -Xylene	20.3		5.00	2.50	3.75	ug/L	1		07/25/24 10:15
Toluene	3.63	J	5.00	2.50	3.75	ug/L	1		07/25/24 10:15
Xylenes (total)	42.3		5.00	2.50	3.75	ug/L	1		07/25/24 10:15
Surrogates									
1,4-Difluorobenzene (surr)	109		77-115			%	1		07/25/24 10:15

Batch Information

Analytical Batch: VFC16906
Analytical Method: SW8021B
Analyst: EJB
Analytical Date/Time: 07/25/24 10:15
Container ID: 1243825015-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **DUP002**

Client Sample ID: **DUP002**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825016
Lab Project ID: 1243825

Collection Date: 07/18/24 00:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	3.16		0.577	0.192	0.433	mg/L	1		08/02/24 17:12
Surrogates									
5a Androstane (surr)	74.6		50-150			%	1		08/02/24 17:12

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 08/02/24 17:12
Container ID: 1243825016-D

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.750		0.481	0.192	0.361	mg/L	1		08/02/24 17:12
Surrogates									
n-Triacontane-d62 (surr)	107		50-150			%	1		08/02/24 17:12

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 08/02/24 17:12
Container ID: 1243825016-D

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **DUP002**

Client Sample ID: **DUP002**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825016
Lab Project ID: 1243825

Collection Date: 07/18/24 00:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	1.85		0.100	0.0450	0.0750	mg/L	1		07/25/24 08:20
Surrogates									
4-Bromofluorobenzene (surr)	237	*	50-150			%	1		07/25/24 08:20

Batch Information

Analytical Batch: VFC16906
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/25/24 08:20
Container ID: 1243825016-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	126		0.600	0.150	0.450	ug/L	1		07/25/24 08:20
Ethylbenzene	134		5.00	2.50	3.75	ug/L	1		07/25/24 08:20
o-Xylene	3.85	J	5.00	2.50	3.75	ug/L	1		07/25/24 08:20
P & M -Xylene	128		5.00	2.50	3.75	ug/L	1		07/25/24 08:20
Toluene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 08:20
Xylenes (total)	132		5.00	2.50	3.75	ug/L	1		07/25/24 08:20
Surrogates									
1,4-Difluorobenzene (surr)	111		77-115			%	1		07/25/24 08:20

Batch Information

Analytical Batch: VFC16906
Analytical Method: SW8021B
Analyst: EJB
Analytical Date/Time: 07/25/24 08:20
Container ID: 1243825016-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **Trip Blank 02**

Client Sample ID: **Trip Blank 02**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825017
Lab Project ID: 1243825

Collection Date: 07/19/24 08:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 22:43
1,1,1-Trichloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
1,1,2,2-Tetrachloroethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 22:43
1,1,2-Trichloroethane	0.300	U	0.400	0.120	0.300	ug/L	1		07/31/24 22:43
1,1-Dichloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
1,1-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
1,1-Dichloropropene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
1,2,3-Trichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
1,2,3-Trichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
1,2,4-Trichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
1,2,4-Trimethylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
1,2-Dibromo-3-chloropropane	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 22:43
1,2-Dibromoethane	0.0562	U	0.0750	0.0180	0.0562	ug/L	1		07/31/24 22:43
1,2-Dichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
1,2-Dichloroethane	0.375	U	0.500	0.200	0.375	ug/L	1		07/31/24 22:43
1,2-Dichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
1,3,5-Trimethylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
1,3-Dichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
1,3-Dichloropropane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 22:43
1,4-Dichlorobenzene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 22:43
2,2-Dichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
2-Butanone (MEK)	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 22:43
2-Chlorotoluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
2-Hexanone	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 22:43
4-Chlorotoluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
4-Isopropyltoluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
4-Methyl-2-pentanone (MIBK)	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 22:43
Benzene	0.300	U	0.400	0.120	0.300	ug/L	1		07/31/24 22:43
Bromobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
Bromochloromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
Bromodichloromethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 22:43
Bromoform	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
Bromomethane	4.50	U	6.00	3.00	4.50	ug/L	1		07/31/24 22:43
Carbon disulfide	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 22:43
Carbon tetrachloride	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
Chlorobenzene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 22:43

Results of **Trip Blank 02**

Client Sample ID: **Trip Blank 02**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825017
Lab Project ID: 1243825

Collection Date: 07/19/24 08:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
Chloroform	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
Chloromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
cis-1,2-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
cis-1,3-Dichloropropene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 22:43
Dibromochloromethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 22:43
Dibromomethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
Dichlorodifluoromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
Ethylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
Freon-113	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 22:43
Hexachlorobutadiene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
Isopropylbenzene (Cumene)	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
Methylene chloride	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 22:43
Methyl-t-butyl ether	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 22:43
Naphthalene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
n-Butylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
n-Propylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
o-Xylene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
P & M -Xylene	1.50	U	2.00	0.620	1.50	ug/L	1		07/31/24 22:43
sec-Butylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
Styrene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
tert-Butylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
Tetrachloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
Toluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
trans-1,2-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
trans-1,3-Dichloropropene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
Trichloroethene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 22:43
Trichlorofluoromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:43
Vinyl acetate	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 22:43
Vinyl chloride	0.112	U	0.150	0.0500	0.112	ug/L	1		07/31/24 22:43
Xylenes (total)	2.25	U	3.00	1.00	2.25	ug/L	1		07/31/24 22:43
Surrogates									
1,2-Dichloroethane-D4 (surr)	114		81-118			%	1		07/31/24 22:43
4-Bromofluorobenzene (surr)	99.2		85-114			%	1		07/31/24 22:43
Toluene-d8 (surr)	99.6		89-112			%	1		07/31/24 22:43

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **Trip Blank 02**

Client Sample ID: **Trip Blank 02**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825017
Lab Project ID: 1243825

Collection Date: 07/19/24 08:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS23484
Analytical Method: SW8260D
Analyst: MZ
Analytical Date/Time: 07/31/24 22:43
Container ID: 1243825017-C

Prep Batch: VXX41584
Prep Method: SW5030B
Prep Date/Time: 07/31/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **MW10-071924**

Client Sample ID: **MW10-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825018
Lab Project ID: 1243825

Collection Date: 07/19/24 10:40
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	5.48		0.0481	0.0144	0.0361	ug/L	1		08/07/24 15:02
2-Methylnaphthalene	4.52		0.0481	0.0144	0.0361	ug/L	1		08/07/24 15:02
Acenaphthene	0.0578		0.0481	0.0144	0.0361	ug/L	1		08/07/24 15:02
Acenaphthylene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 15:02
Anthracene	0.126		0.0481	0.0144	0.0361	ug/L	1		08/07/24 15:02
Benzo(a)Anthracene	0.172		0.0481	0.0144	0.0361	ug/L	1		08/07/24 15:02
Benzo[a]pyrene	0.0633		0.0192	0.00596	0.0144	ug/L	1		08/07/24 15:02
Benzo[b]Fluoranthene	0.352		0.0481	0.0144	0.0361	ug/L	1		08/07/24 15:02
Benzo[g,h,i]perylene	0.754		0.0481	0.0144	0.0361	ug/L	1		08/07/24 15:02
Benzo[k]fluoranthene	0.800		0.0481	0.0144	0.0361	ug/L	1		08/07/24 15:02
Chrysene	0.216		0.0481	0.0144	0.0361	ug/L	1		08/07/24 15:02
Dibenzo[a,h]anthracene	0.253		0.0192	0.00596	0.0144	ug/L	1		08/07/24 15:02
Fluoranthene	1.83		0.0481	0.0144	0.0361	ug/L	1		08/07/24 15:02
Fluorene	0.0966		0.0481	0.0144	0.0361	ug/L	1		08/07/24 15:02
Indeno[1,2,3-c,d] pyrene	0.609		0.0481	0.0144	0.0361	ug/L	1		08/07/24 15:02
Naphthalene	37.8		0.481	0.149	0.361	ug/L	5		08/21/24 00:13
Phenanthrene	0.114		0.0962	0.0298	0.0721	ug/L	1		08/07/24 15:02
Pyrene	0.892		0.0481	0.0144	0.0361	ug/L	1		08/07/24 15:02
Surrogates									
2-Methylnaphthalene-d10 (surr)	66.8		38-100			%	1		08/07/24 15:02
Fluoranthene-d10 (surr)	38.8		30-111			%	1		08/07/24 15:02

Batch Information

Analytical Batch: XMS14427
Analytical Method: 8270E SIM LV (PAH)
Analyst: C.M
Analytical Date/Time: 08/21/24 00:13
Container ID: 1243825018-I

Prep Batch: XXX49906
Prep Method: SW3535A
Prep Date/Time: 07/25/24 14:12
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Analytical Batch: XMS14390
Analytical Method: 8270E SIM LV (PAH)
Analyst: HBL
Analytical Date/Time: 08/07/24 15:02
Container ID: 1243825018-I

Prep Batch: XXX49906
Prep Method: SW3535A
Prep Date/Time: 07/25/24 14:12
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW10-071924**

Client Sample ID: **MW10-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825018
Lab Project ID: 1243825

Collection Date: 07/19/24 10:40
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	7.21		0.577	0.192	0.433	mg/L	1		08/02/24 17:22
Surrogates									
5a Androstane (surr)	82.4		50-150			%	1		08/02/24 17:22

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 08/02/24 17:22
Container ID: 1243825018-G

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	2.19		0.481	0.192	0.361	mg/L	1		08/02/24 17:22
Surrogates									
n-Triacontane-d62 (surr)	98.6		50-150			%	1		08/02/24 17:22

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 08/02/24 17:22
Container ID: 1243825018-G

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **MW10-071924**

Client Sample ID: **MW10-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825018
Lab Project ID: 1243825

Collection Date: 07/19/24 10:40
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.773		0.100	0.0450	0.0750	mg/L	1		07/25/24 06:08
Surrogates									
4-Bromofluorobenzene (surr)	127		50-150			%	1		07/25/24 06:08

Batch Information

Analytical Batch: VFC16906
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/25/24 06:08
Container ID: 1243825018-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	67.4		0.600	0.150	0.450	ug/L	1		07/25/24 06:08
Ethylbenzene	52.5		5.00	2.50	3.75	ug/L	1		07/25/24 06:08
o-Xylene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 06:08
P & M -Xylene	86.0		5.00	2.50	3.75	ug/L	1		07/25/24 06:08
Toluene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 06:08
Xylenes (total)	87.5		5.00	2.50	3.75	ug/L	1		07/25/24 06:08
Surrogates									
1,4-Difluorobenzene (surr)	83.1		77-115			%	1		07/25/24 06:08

Batch Information

Analytical Batch: VFC16906
Analytical Method: SW8021B
Analyst: EJB
Analytical Date/Time: 07/25/24 06:08
Container ID: 1243825018-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **MW10-071924**

Client Sample ID: **MW10-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825018
Lab Project ID: 1243825

Collection Date: 07/19/24 10:40
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:43
1,1,1-Trichloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
1,1,2,2-Tetrachloroethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:43
1,1,2-Trichloroethane	0.300	U	0.400	0.120	0.300	ug/L	1		07/31/24 23:43
1,1-Dichloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
1,1-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
1,1-Dichloropropene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
1,2,3-Trichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
1,2,3-Trichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
1,2,4-Trichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
1,2,4-Trimethylbenzene	102		1.00	0.310	0.750	ug/L	1		07/31/24 23:43
1,2-Dibromo-3-chloropropane	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:43
1,2-Dibromoethane	0.0562	U	0.0750	0.0180	0.0562	ug/L	1		07/31/24 23:43
1,2-Dichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
1,2-Dichloroethane	0.440	J	0.500	0.200	0.375	ug/L	1		07/31/24 23:43
1,2-Dichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
1,3,5-Trimethylbenzene	33.8		1.00	0.310	0.750	ug/L	1		07/31/24 23:43
1,3-Dichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
1,3-Dichloropropane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:43
1,4-Dichlorobenzene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:43
2,2-Dichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
2-Butanone (MEK)	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:43
2-Chlorotoluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
2-Hexanone	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:43
4-Chlorotoluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
4-Isopropyltoluene	2.00		1.00	0.310	0.750	ug/L	1		07/31/24 23:43
4-Methyl-2-pentanone (MIBK)	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:43
Benzene	62.5		0.400	0.120	0.300	ug/L	1		07/31/24 23:43
Bromobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
Bromochloromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
Bromodichloromethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:43
Bromoform	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
Bromomethane	4.50	U	6.00	3.00	4.50	ug/L	1		07/31/24 23:43
Carbon disulfide	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:43
Carbon tetrachloride	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
Chlorobenzene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:43

Print Date: 08/22/2024 5:22:34PM

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Results of **MW10-071924**

Client Sample ID: **MW10-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825018
Lab Project ID: 1243825

Collection Date: 07/19/24 10:40
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
Chloroform	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
Chloromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
cis-1,2-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
cis-1,3-Dichloropropene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:43
Dibromochloromethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:43
Dibromomethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
Dichlorodifluoromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
Ethylbenzene	52.6		1.00	0.310	0.750	ug/L	1		07/31/24 23:43
Freon-113	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:43
Hexachlorobutadiene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
Isopropylbenzene (Cumene)	9.69		1.00	0.310	0.750	ug/L	1		07/31/24 23:43
Methylene chloride	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:43
Methyl-t-butyl ether	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:43
Naphthalene	101		1.00	0.310	0.750	ug/L	1		07/31/24 23:43
n-Butylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
n-Propylbenzene	8.53		1.00	0.310	0.750	ug/L	1		07/31/24 23:43
o-Xylene	1.48		1.00	0.310	0.750	ug/L	1		07/31/24 23:43
P & M -Xylene	86.0		2.00	0.620	1.50	ug/L	1		07/31/24 23:43
sec-Butylbenzene	1.11		1.00	0.310	0.750	ug/L	1		07/31/24 23:43
Styrene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
tert-Butylbenzene	0.430	J	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
Tetrachloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
Toluene	0.930	J	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
trans-1,2-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
trans-1,3-Dichloropropene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
Trichloroethene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:43
Trichlorofluoromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:43
Vinyl acetate	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:43
Vinyl chloride	0.112	U	0.150	0.0500	0.112	ug/L	1		07/31/24 23:43
Xylenes (total)	87.5		3.00	1.00	2.25	ug/L	1		07/31/24 23:43
Surrogates									
1,2-Dichloroethane-D4 (surr)	106		81-118			%	1		07/31/24 23:43
4-Bromofluorobenzene (surr)	97.5		85-114			%	1		07/31/24 23:43
Toluene-d8 (surr)	102		89-112			%	1		07/31/24 23:43

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Results of **MW10-071924**

Client Sample ID: **MW10-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825018
Lab Project ID: 1243825

Collection Date: 07/19/24 10:40
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS23484
Analytical Method: SW8260D
Analyst: MZ
Analytical Date/Time: 07/31/24 23:43
Container ID: 1243825018-D

Prep Batch: VXX41584
Prep Method: SW5030B
Prep Date/Time: 07/31/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **MW10-071924**

Client Sample ID: **MW10-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825018
Lab Project ID: 1243825

Collection Date: 07/19/24 10:40
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Sulfate	0.0660	J	0.200	0.0500	0.150	mg/L	1		07/27/24 07:06

Batch Information

Analytical Batch: WIC6607
Analytical Method: EPA 300.0
Analyst: BRP
Analytical Date/Time: 07/27/24 07:06
Container ID: 1243825018-L

Prep Batch: WXX15340
Prep Method: METHOD
Prep Date/Time: 07/26/24 11:30
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.351		0.200	0.0500	0.150	mg/L	2		07/26/24 13:07

Batch Information

Analytical Batch: WFI3132
Analytical Method: SM21 4500NO3-F
Analyst: AJP
Analytical Date/Time: 07/26/24 13:07
Container ID: 1243825018-K

Results of **MW27-071924**

Client Sample ID: **MW27-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825019
Lab Project ID: 1243825

Collection Date: 07/19/24 13:25
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0804		0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:39
2-Methylnaphthalene	0.0815	B	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:39
Acenaphthene	0.0154	J	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:39
Acenaphthylene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:39
Anthracene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:39
Benzo(a)Anthracene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:39
Benzo[a]pyrene	0.0144	U	0.0192	0.00596	0.0144	ug/L	1		08/07/24 16:39
Benzo[b]Fluoranthene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:39
Benzo[g,h,i]perylene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:39
Benzo[k]fluoranthene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:39
Chrysene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:39
Dibenzo[a,h]anthracene	0.0144	U	0.0192	0.00596	0.0144	ug/L	1		08/07/24 16:39
Fluoranthene	0.0155	J	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:39
Fluorene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:39
Indeno[1,2,3-c,d] pyrene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:39
Naphthalene	0.112		0.0962	0.0298	0.0721	ug/L	1		08/07/24 16:39
Phenanthrene	0.0721	U	0.0962	0.0298	0.0721	ug/L	1		08/07/24 16:39
Pyrene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:39
Surrogates									
2-Methylnaphthalene-d10 (surr)	47.7		38-100			%	1		08/07/24 16:39
Fluoranthene-d10 (surr)	40.8		30-111			%	1		08/07/24 16:39

Batch Information

Analytical Batch: XMS14390
Analytical Method: 8270E SIM LV (PAH)
Analyst: HBL
Analytical Date/Time: 08/07/24 16:39
Container ID: 1243825019-I

Prep Batch: XXX49906
Prep Method: SW3535A
Prep Date/Time: 07/25/24 14:12
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW27-071924**

Client Sample ID: **MW27-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825019
Lab Project ID: 1243825

Collection Date: 07/19/24 13:25
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1.43		0.577	0.192	0.433	mg/L	1		08/02/24 17:32
Surrogates									
5a Androstane (surr)	80.4		50-150			%	1		08/02/24 17:32

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 08/02/24 17:32
Container ID: 1243825019-G

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.573		0.481	0.192	0.361	mg/L	1		08/02/24 17:32
Surrogates									
n-Triacontane-d62 (surr)	105		50-150			%	1		08/02/24 17:32

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 08/02/24 17:32
Container ID: 1243825019-G

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **MW27-071924**

Client Sample ID: **MW27-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825019
Lab Project ID: 1243825

Collection Date: 07/19/24 13:25
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0750	U	0.100	0.0450	0.0750	mg/L	1		07/25/24 06:28
Surrogates									
4-Bromofluorobenzene (surr)	87.1		50-150			%	1		07/25/24 06:28

Batch Information

Analytical Batch: VFC16906
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/25/24 06:28
Container ID: 1243825019-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.450	U	0.600	0.150	0.450	ug/L	1		07/25/24 06:28
Ethylbenzene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 06:28
o-Xylene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 06:28
P & M -Xylene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 06:28
Toluene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 06:28
Xylenes (total)	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 06:28
Surrogates									
1,4-Difluorobenzene (surr)	89.4		77-115			%	1		07/25/24 06:28

Batch Information

Analytical Batch: VFC16906
Analytical Method: SW8021B
Analyst: EJB
Analytical Date/Time: 07/25/24 06:28
Container ID: 1243825019-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **MW27-071924**

Client Sample ID: **MW27-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825019
Lab Project ID: 1243825

Collection Date: 07/19/24 13:25
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:13
1,1,1-Trichloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
1,1,2,2-Tetrachloroethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:13
1,1,2-Trichloroethane	0.300	U	0.400	0.120	0.300	ug/L	1		07/31/24 23:13
1,1-Dichloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
1,1-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
1,1-Dichloropropene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
1,2,3-Trichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
1,2,3-Trichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
1,2,4-Trichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
1,2,4-Trimethylbenzene	0.310	J	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
1,2-Dibromo-3-chloropropane	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:13
1,2-Dibromoethane	0.0562	U	0.0750	0.0180	0.0562	ug/L	1		07/31/24 23:13
1,2-Dichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
1,2-Dichloroethane	0.375	U	0.500	0.200	0.375	ug/L	1		07/31/24 23:13
1,2-Dichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
1,3,5-Trimethylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
1,3-Dichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
1,3-Dichloropropane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:13
1,4-Dichlorobenzene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:13
2,2-Dichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
2-Butanone (MEK)	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:13
2-Chlorotoluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
2-Hexanone	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:13
4-Chlorotoluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
4-Isopropyltoluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
4-Methyl-2-pentanone (MIBK)	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:13
Benzene	0.440		0.400	0.120	0.300	ug/L	1		07/31/24 23:13
Bromobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
Bromochloromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
Bromodichloromethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:13
Bromoform	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
Bromomethane	4.50	U	6.00	3.00	4.50	ug/L	1		07/31/24 23:13
Carbon disulfide	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:13
Carbon tetrachloride	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
Chlorobenzene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:13

Results of **MW27-071924**

Client Sample ID: **MW27-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825019
Lab Project ID: 1243825

Collection Date: 07/19/24 13:25
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
Chloroform	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
Chloromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
cis-1,2-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
cis-1,3-Dichloropropene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:13
Dibromochloromethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:13
Dibromomethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
Dichlorodifluoromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
Ethylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
Freon-113	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:13
Hexachlorobutadiene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
Isopropylbenzene (Cumene)	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
Methylene chloride	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:13
Methyl-t-butyl ether	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:13
Naphthalene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
n-Butylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
n-Propylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
o-Xylene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
P & M -Xylene	1.50	U	2.00	0.620	1.50	ug/L	1		07/31/24 23:13
sec-Butylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
Styrene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
tert-Butylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
Tetrachloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
Toluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
trans-1,2-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
trans-1,3-Dichloropropene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
Trichloroethene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:13
Trichlorofluoromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:13
Vinyl acetate	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:13
Vinyl chloride	0.112	U	0.150	0.0500	0.112	ug/L	1		07/31/24 23:13
Xylenes (total)	2.25	U	3.00	1.00	2.25	ug/L	1		07/31/24 23:13
Surrogates									
1,2-Dichloroethane-D4 (surr)	110		81-118			%	1		07/31/24 23:13
4-Bromofluorobenzene (surr)	96.4		85-114			%	1		07/31/24 23:13
Toluene-d8 (surr)	99.1		89-112			%	1		07/31/24 23:13

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW27-071924**

Client Sample ID: **MW27-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825019
Lab Project ID: 1243825

Collection Date: 07/19/24 13:25
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS23484
Analytical Method: SW8260D
Analyst: MZ
Analytical Date/Time: 07/31/24 23:13
Container ID: 1243825019-D

Prep Batch: VXX41584
Prep Method: SW5030B
Prep Date/Time: 07/31/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **MW27-071924**

Client Sample ID: **MW27-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825019
Lab Project ID: 1243825

Collection Date: 07/19/24 13:25
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Sulfate	0.124	J	0.200	0.0500	0.150	mg/L	1		07/27/24 07:25

Batch Information

Analytical Batch: WIC6607
Analytical Method: EPA 300.0
Analyst: BRP
Analytical Date/Time: 07/27/24 07:25
Container ID: 1243825019-L

Prep Batch: WXX15340
Prep Method: METHOD
Prep Date/Time: 07/26/24 11:30
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.324		0.200	0.0500	0.150	mg/L	2		07/26/24 13:09

Batch Information

Analytical Batch: WFI3132
Analytical Method: SM21 4500NO3-F
Analyst: AJP
Analytical Date/Time: 07/26/24 13:09
Container ID: 1243825019-K

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW16-071924**

Client Sample ID: **MW16-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825020
Lab Project ID: 1243825

Collection Date: 07/19/24 15:15
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0391	J	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:23
2-Methylnaphthalene	0.0297	J	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:23
Acenaphthene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:23
Acenaphthylene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:23
Anthracene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:23
Benzo(a)Anthracene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:23
Benzo[a]pyrene	0.0144	U	0.0192	0.00596	0.0144	ug/L	1		08/07/24 16:23
Benzo[b]Fluoranthene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:23
Benzo[g,h,i]perylene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:23
Benzo[k]fluoranthene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:23
Chrysene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:23
Dibenzo[a,h]anthracene	0.0144	U	0.0192	0.00596	0.0144	ug/L	1		08/07/24 16:23
Fluoranthene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:23
Fluorene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:23
Indeno[1,2,3-c,d] pyrene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:23
Naphthalene	0.0422	J	0.0962	0.0298	0.0721	ug/L	1		08/07/24 16:23
Phenanthrene	0.0721	U	0.0962	0.0298	0.0721	ug/L	1		08/07/24 16:23
Pyrene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 16:23
Surrogates									
2-Methylnaphthalene-d10 (surr)	74.8		38-100			%	1		08/07/24 16:23
Fluoranthene-d10 (surr)	79.5		30-111			%	1		08/07/24 16:23

Batch Information

Analytical Batch: XMS14390
Analytical Method: 8270E SIM LV (PAH)
Analyst: HBL
Analytical Date/Time: 08/07/24 16:23
Container ID: 1243825020-I

Prep Batch: XXX49906
Prep Method: SW3535A
Prep Date/Time: 07/25/24 14:12
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **MW16-071924**

Client Sample ID: **MW16-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825020
Lab Project ID: 1243825

Collection Date: 07/19/24 15:15
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1.23		0.577	0.192	0.433	mg/L	1		08/02/24 17:43
Surrogates									
5a Androstane (surr)	83.9		50-150			%	1		08/02/24 17:43

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 08/02/24 17:43
Container ID: 1243825020-G

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.638		0.481	0.192	0.361	mg/L	1		08/02/24 17:43
Surrogates									
n-Triacontane-d62 (surr)	106		50-150			%	1		08/02/24 17:43

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 08/02/24 17:43
Container ID: 1243825020-G

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **MW16-071924**

Client Sample ID: **MW16-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825020
Lab Project ID: 1243825

Collection Date: 07/19/24 15:15
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.134		0.100	0.0450	0.0750	mg/L	1		07/25/24 06:47
Surrogates									
4-Bromofluorobenzene (surr)	88.1		50-150			%	1		07/25/24 06:47

Batch Information

Analytical Batch: VFC16906
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/25/24 06:47
Container ID: 1243825020-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	6.28		0.600	0.150	0.450	ug/L	1		07/25/24 06:47
Ethylbenzene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 06:47
o-Xylene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 06:47
P & M -Xylene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 06:47
Toluene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 06:47
Xylenes (total)	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 06:47
Surrogates									
1,4-Difluorobenzene (surr)	83.1		77-115			%	1		07/25/24 06:47

Batch Information

Analytical Batch: VFC16906
Analytical Method: SW8021B
Analyst: EJB
Analytical Date/Time: 07/25/24 06:47
Container ID: 1243825020-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **MW16-071924**

Client Sample ID: **MW16-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825020
Lab Project ID: 1243825

Collection Date: 07/19/24 15:15
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:28
1,1,1-Trichloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
1,1,2,2-Tetrachloroethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:28
1,1,2-Trichloroethane	0.300	U	0.400	0.120	0.300	ug/L	1		07/31/24 23:28
1,1-Dichloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
1,1-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
1,1-Dichloropropene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
1,2,3-Trichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
1,2,3-Trichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
1,2,4-Trichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
1,2,4-Trimethylbenzene	0.360	J	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
1,2-Dibromo-3-chloropropane	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:28
1,2-Dibromoethane	0.0562	U	0.0750	0.0180	0.0562	ug/L	1		07/31/24 23:28
1,2-Dichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
1,2-Dichloroethane	0.370	J	0.500	0.200	0.375	ug/L	1		07/31/24 23:28
1,2-Dichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
1,3,5-Trimethylbenzene	0.350	J	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
1,3-Dichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
1,3-Dichloropropane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:28
1,4-Dichlorobenzene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:28
2,2-Dichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
2-Butanone (MEK)	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:28
2-Chlorotoluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
2-Hexanone	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:28
4-Chlorotoluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
4-Isopropyltoluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
4-Methyl-2-pentanone (MIBK)	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:28
Benzene	6.18		0.400	0.120	0.300	ug/L	1		07/31/24 23:28
Bromobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
Bromochloromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
Bromodichloromethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:28
Bromoform	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
Bromomethane	4.50	U	6.00	3.00	4.50	ug/L	1		07/31/24 23:28
Carbon disulfide	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:28
Carbon tetrachloride	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
Chlorobenzene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:28

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Results of **MW16-071924**

Client Sample ID: **MW16-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825020
Lab Project ID: 1243825

Collection Date: 07/19/24 15:15
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
Chloroform	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
Chloromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
cis-1,2-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
cis-1,3-Dichloropropene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:28
Dibromochloromethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:28
Dibromomethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
Dichlorodifluoromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
Ethylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
Freon-113	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:28
Hexachlorobutadiene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
Isopropylbenzene (Cumene)	0.490	J	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
Methylene chloride	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:28
Methyl-t-butyl ether	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:28
Naphthalene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
n-Butylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
n-Propylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
o-Xylene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
P & M -Xylene	1.50	U	2.00	0.620	1.50	ug/L	1		07/31/24 23:28
sec-Butylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
Styrene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
tert-Butylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
Tetrachloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
Toluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
trans-1,2-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
trans-1,3-Dichloropropene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
Trichloroethene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:28
Trichlorofluoromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:28
Vinyl acetate	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:28
Vinyl chloride	0.112	U	0.150	0.0500	0.112	ug/L	1		07/31/24 23:28
Xylenes (total)	2.25	U	3.00	1.00	2.25	ug/L	1		07/31/24 23:28
Surrogates									
1,2-Dichloroethane-D4 (surr)	107		81-118			%	1		07/31/24 23:28
4-Bromofluorobenzene (surr)	96.1		85-114			%	1		07/31/24 23:28
Toluene-d8 (surr)	100		89-112			%	1		07/31/24 23:28

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J flagging is activated

Results of **MW16-071924**

Client Sample ID: **MW16-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825020
Lab Project ID: 1243825

Collection Date: 07/19/24 15:15
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS23484
Analytical Method: SW8260D
Analyst: MZ
Analytical Date/Time: 07/31/24 23:28
Container ID: 1243825020-D

Prep Batch: VXX41584
Prep Method: SW5030B
Prep Date/Time: 07/31/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **MW16-071924**

Client Sample ID: **MW16-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825020
Lab Project ID: 1243825

Collection Date: 07/19/24 15:15
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Sulfate	6.73		0.200	0.0500	0.150	mg/L	1		07/27/24 07:43

Batch Information

Analytical Batch: WIC6607
Analytical Method: EPA 300.0
Analyst: BRP
Analytical Date/Time: 07/27/24 07:43
Container ID: 1243825020-L

Prep Batch: WXX15340
Prep Method: METHOD
Prep Date/Time: 07/26/24 11:30
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.283		0.200	0.0500	0.150	mg/L	2		07/26/24 13:11

Batch Information

Analytical Batch: WFI3132
Analytical Method: SM21 4500NO3-F
Analyst: AJP
Analytical Date/Time: 07/26/24 13:11
Container ID: 1243825020-K

Results of **MW11R-071924**

Client Sample ID: **MW11R-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825021
Lab Project ID: 1243825

Collection Date: 07/19/24 19:10
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.0340	J	0.0481	0.0144	0.0361	ug/L	1		08/07/24 17:11
2-Methylnaphthalene	0.0336	J	0.0481	0.0144	0.0361	ug/L	1		08/07/24 17:11
Acenaphthene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 17:11
Acenaphthylene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 17:11
Anthracene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 17:11
Benzo(a)Anthracene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 17:11
Benzo[a]pyrene	0.0144	U	0.0192	0.00596	0.0144	ug/L	1		08/07/24 17:11
Benzo[b]Fluoranthene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 17:11
Benzo[g,h,i]perylene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 17:11
Benzo[k]fluoranthene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 17:11
Chrysene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 17:11
Dibenzo[a,h]anthracene	0.0144	U	0.0192	0.00596	0.0144	ug/L	1		08/07/24 17:11
Fluoranthene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 17:11
Fluorene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 17:11
Indeno[1,2,3-c,d] pyrene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 17:11
Naphthalene	0.0558	J	0.0962	0.0298	0.0721	ug/L	1		08/07/24 17:11
Phenanthrene	0.0721	U	0.0962	0.0298	0.0721	ug/L	1		08/07/24 17:11
Pyrene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/07/24 17:11
Surrogates									
2-Methylnaphthalene-d10 (surr)	65.7		38-100			%	1		08/07/24 17:11
Fluoranthene-d10 (surr)	58.7		30-111			%	1		08/07/24 17:11

Batch Information

Analytical Batch: XMS14390
Analytical Method: 8270E SIM LV (PAH)
Analyst: HBL
Analytical Date/Time: 08/07/24 17:11
Container ID: 1243825021-I

Prep Batch: XXX49906
Prep Method: SW3535A
Prep Date/Time: 07/25/24 14:12
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW11R-071924**

Client Sample ID: **MW11R-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825021
Lab Project ID: 1243825

Collection Date: 07/19/24 19:10
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.432	J	0.577	0.192	0.433	mg/L	1		08/02/24 17:54
Surrogates									
5a Androstane (surr)	82.8		50-150			%	1		08/02/24 17:54

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 08/02/24 17:54
Container ID: 1243825021-G

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.368	J	0.481	0.192	0.361	mg/L	1		08/02/24 17:54
Surrogates									
n-Triacontane-d62 (surr)	103		50-150			%	1		08/02/24 17:54

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 08/02/24 17:54
Container ID: 1243825021-G

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **MW11R-071924**

Client Sample ID: **MW11R-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825021
Lab Project ID: 1243825

Collection Date: 07/19/24 19:10
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.256		0.100	0.0450	0.0750	mg/L	1		07/25/24 07:05
Surrogates									
4-Bromofluorobenzene (surr)	86.6		50-150			%	1		07/25/24 07:05

Batch Information

Analytical Batch: VFC16906
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/25/24 07:05
Container ID: 1243825021-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	91.8		0.600	0.150	0.450	ug/L	1		07/25/24 07:05
Ethylbenzene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 07:05
o-Xylene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 07:05
P & M -Xylene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 07:05
Toluene	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 07:05
Xylenes (total)	3.75	U	5.00	2.50	3.75	ug/L	1		07/25/24 07:05
Surrogates									
1,4-Difluorobenzene (surr)	83.2		77-115			%	1		07/25/24 07:05

Batch Information

Analytical Batch: VFC16906
Analytical Method: SW8021B
Analyst: EJB
Analytical Date/Time: 07/25/24 07:05
Container ID: 1243825021-A

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 07/24/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW11R-071924**

Client Sample ID: **MW11R-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825021
Lab Project ID: 1243825

Collection Date: 07/19/24 19:10
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 22:58
1,1,1-Trichloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
1,1,2,2-Tetrachloroethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 22:58
1,1,2-Trichloroethane	0.300	U	0.400	0.120	0.300	ug/L	1		07/31/24 22:58
1,1-Dichloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
1,1-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
1,1-Dichloropropene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
1,2,3-Trichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
1,2,3-Trichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
1,2,4-Trichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
1,2,4-Trimethylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
1,2-Dibromo-3-chloropropane	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 22:58
1,2-Dibromoethane	0.0562	U	0.0750	0.0180	0.0562	ug/L	1		07/31/24 22:58
1,2-Dichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
1,2-Dichloroethane	0.375	U	0.500	0.200	0.375	ug/L	1		07/31/24 22:58
1,2-Dichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
1,3,5-Trimethylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
1,3-Dichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
1,3-Dichloropropane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 22:58
1,4-Dichlorobenzene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 22:58
2,2-Dichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
2-Butanone (MEK)	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 22:58
2-Chlorotoluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
2-Hexanone	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 22:58
4-Chlorotoluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
4-Isopropyltoluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
4-Methyl-2-pentanone (MIBK)	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 22:58
Benzene	79.8		0.400	0.120	0.300	ug/L	1		07/31/24 22:58
Bromobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
Bromochloromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
Bromodichloromethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 22:58
Bromoform	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
Bromomethane	4.50	U	6.00	3.00	4.50	ug/L	1		07/31/24 22:58
Carbon disulfide	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 22:58
Carbon tetrachloride	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
Chlorobenzene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 22:58

Results of **MW11R-071924**

Client Sample ID: **MW11R-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825021
Lab Project ID: 1243825

Collection Date: 07/19/24 19:10
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
Chloroform	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
Chloromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
cis-1,2-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
cis-1,3-Dichloropropene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 22:58
Dibromochloromethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 22:58
Dibromomethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
Dichlorodifluoromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
Ethylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
Freon-113	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 22:58
Hexachlorobutadiene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
Isopropylbenzene (Cumene)	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
Methylene chloride	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 22:58
Methyl-t-butyl ether	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 22:58
Naphthalene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
n-Butylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
n-Propylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
o-Xylene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
P & M -Xylene	1.50	U	2.00	0.620	1.50	ug/L	1		07/31/24 22:58
sec-Butylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
Styrene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
tert-Butylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
Tetrachloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
Toluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
trans-1,2-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
trans-1,3-Dichloropropene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
Trichloroethene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 22:58
Trichlorofluoromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 22:58
Vinyl acetate	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 22:58
Vinyl chloride	0.112	U	0.150	0.0500	0.112	ug/L	1		07/31/24 22:58
Xylenes (total)	2.25	U	3.00	1.00	2.25	ug/L	1		07/31/24 22:58
Surrogates									
1,2-Dichloroethane-D4 (surr)	108		81-118			%	1		07/31/24 22:58
4-Bromofluorobenzene (surr)	95.1		85-114			%	1		07/31/24 22:58
Toluene-d8 (surr)	101		89-112			%	1		07/31/24 22:58

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW11R-071924**

Client Sample ID: **MW11R-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825021
Lab Project ID: 1243825

Collection Date: 07/19/24 19:10
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS23484
Analytical Method: SW8260D
Analyst: MZ
Analytical Date/Time: 07/31/24 22:58
Container ID: 1243825021-D

Prep Batch: VXX41584
Prep Method: SW5030B
Prep Date/Time: 07/31/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **MW11R-071924**

Client Sample ID: **MW11R-071924**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825021
Lab Project ID: 1243825

Collection Date: 07/19/24 19:10
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Sulfate	4.50		0.200	0.0500	0.150	mg/L	1		07/27/24 08:02

Batch Information

Analytical Batch: WIC6607
Analytical Method: EPA 300.0
Analyst: BRP
Analytical Date/Time: 07/27/24 08:02
Container ID: 1243825021-L

Prep Batch: WXX15340
Prep Method: METHOD
Prep Date/Time: 07/26/24 11:30
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.0784	J	0.200	0.0500	0.150	mg/L	2		07/26/24 13:12

Batch Information

Analytical Batch: WFI3132
Analytical Method: SM21 4500NO3-F
Analyst: AJP
Analytical Date/Time: 07/26/24 13:12
Container ID: 1243825021-K

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW14-072024**

Client Sample ID: **MW14-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825022
Lab Project ID: 1243825

Collection Date: 07/20/24 10:45
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	6.84		0.577	0.192	0.433	mg/L	1		08/02/24 18:04
Surrogates									
5a Androstane (surr)	93.6		50-150			%	1		08/02/24 18:04

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 08/02/24 18:04
Container ID: 1243825022-D

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	1.27		0.481	0.192	0.361	mg/L	1		08/02/24 18:04
Surrogates									
n-Triacontane-d62 (surr)	110		50-150			%	1		08/02/24 18:04

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 08/02/24 18:04
Container ID: 1243825022-D

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **MW14-072024**

Client Sample ID: **MW14-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825022
Lab Project ID: 1243825

Collection Date: 07/20/24 10:45
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.187		0.100	0.0450	0.0750	mg/L	1		07/26/24 05:23
Surrogates									
4-Bromofluorobenzene (surr)	89		50-150			%	1		07/26/24 05:23

Batch Information

Analytical Batch: VFC16909
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/26/24 05:23
Container ID: 1243825022-A

Prep Batch: VXX41545
Prep Method: SW5030B
Prep Date/Time: 07/25/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	1.37		0.600	0.150	0.450	ug/L	1		07/30/24 05:04
Ethylbenzene	3.75	U	5.00	2.50	3.75	ug/L	1		07/30/24 05:04
o-Xylene	3.22	J	5.00	2.50	3.75	ug/L	1		07/30/24 05:04
P & M -Xylene	3.75	U	5.00	2.50	3.75	ug/L	1		07/30/24 05:04
Toluene	3.75	U	5.00	2.50	3.75	ug/L	1		07/30/24 05:04
Xylenes (total)	4.81	J	5.00	2.50	3.75	ug/L	1		07/30/24 05:04
Surrogates									
1,4-Difluorobenzene (surr)	109		77-115			%	1		07/30/24 05:04

Batch Information

Analytical Batch: VFC16916
Analytical Method: SW8021B
Analyst: T.L
Analytical Date/Time: 07/30/24 05:04
Container ID: 1243825022-B

Prep Batch: VXX41574
Prep Method: SW5030B
Prep Date/Time: 07/29/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **MW26-072024**

Client Sample ID: **MW26-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825023
Lab Project ID: 1243825

Collection Date: 07/20/24 14:25
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	29.1		0.0521	0.0156	0.0391	ug/L	1		08/18/24 06:31
2-Methylnaphthalene	0.962		0.0521	0.0156	0.0391	ug/L	1		08/18/24 06:31
Acenaphthene	0.484		0.0521	0.0156	0.0391	ug/L	1		08/18/24 06:31
Acenaphthylene	0.113		0.0521	0.0156	0.0391	ug/L	1		08/18/24 06:31
Anthracene	0.0976		0.0521	0.0156	0.0391	ug/L	1		08/18/24 06:31
Benzo(a)Anthracene	0.0440	J	0.0521	0.0156	0.0391	ug/L	1		08/18/24 06:31
Benzo[a]pyrene	0.0174	J	0.0208	0.00646	0.0156	ug/L	1		08/18/24 06:31
Benzo[b]Fluoranthene	0.0620		0.0521	0.0156	0.0391	ug/L	1		08/18/24 06:31
Benzo[g,h,i]perylene	0.0832		0.0521	0.0156	0.0391	ug/L	1		08/18/24 06:31
Benzo[k]fluoranthene	0.128		0.0521	0.0156	0.0391	ug/L	1		08/18/24 06:31
Chrysene	0.0473	J	0.0521	0.0156	0.0391	ug/L	1		08/18/24 06:31
Dibenzo[a,h]anthracene	0.0397		0.0208	0.00646	0.0156	ug/L	1		08/18/24 06:31
Fluoranthene	0.447		0.0521	0.0156	0.0391	ug/L	1		08/18/24 06:31
Fluorene	1.80		0.0521	0.0156	0.0391	ug/L	1		08/18/24 06:31
Indeno[1,2,3-c,d] pyrene	0.0884		0.0521	0.0156	0.0391	ug/L	1		08/18/24 06:31
Naphthalene	42.1		0.104	0.0323	0.0780	ug/L	1		08/18/24 06:31
Phenanthrene	0.749		0.104	0.0323	0.0780	ug/L	1		08/18/24 06:31
Pyrene	0.204		0.0521	0.0156	0.0391	ug/L	1		08/18/24 06:31
Surrogates									
2-Methylnaphthalene-d10 (surr)	52.6		38-100			%	1		08/18/24 06:31
Fluoranthene-d10 (surr)	67		30-111			%	1		08/18/24 06:31

Batch Information

Analytical Batch: XMS14416
Analytical Method: 8270E SIM LV (PAH)
Analyst: HBL
Analytical Date/Time: 08/18/24 06:31
Container ID: 1243825023-I

Prep Batch: XXX49919
Prep Method: SW3535A
Prep Date/Time: 07/26/24 15:06
Prep Initial Wt./Vol.: 240 mL
Prep Extract Vol: 1 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW26-072024**

Client Sample ID: **MW26-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825023
Lab Project ID: 1243825

Collection Date: 07/20/24 14:25
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	2.12		0.577	0.192	0.433	mg/L	1		08/02/24 18:14
Surrogates									
5a Androstane (surr)	83.4		50-150			%	1		08/02/24 18:14

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 08/02/24 18:14
Container ID: 1243825023-G

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.789		0.481	0.192	0.361	mg/L	1		08/02/24 18:14
Surrogates									
n-Triacontane-d62 (surr)	105		50-150			%	1		08/02/24 18:14

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 08/02/24 18:14
Container ID: 1243825023-G

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **MW26-072024**

Client Sample ID: **MW26-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825023
Lab Project ID: 1243825

Collection Date: 07/20/24 14:25
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	5.58		0.200	0.0900	0.150	mg/L	2		07/30/24 08:46
Surrogates									
4-Bromofluorobenzene (surr)	152	*	50-150			%	2		07/30/24 08:46

Batch Information

Analytical Batch: VFC16916
Analytical Method: AK101
Analyst: T.L
Analytical Date/Time: 07/30/24 08:46
Container ID: 1243825023-C

Prep Batch: VXX41574
Prep Method: SW5030B
Prep Date/Time: 07/29/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	2.94		1.20	0.300	0.900	ug/L	2		07/30/24 08:46
Ethylbenzene	91.0		10.0	5.00	7.50	ug/L	2		07/30/24 08:46
o-Xylene	7.50	U	10.0	5.00	7.50	ug/L	2		07/30/24 08:46
P & M -Xylene	581		10.0	5.00	7.50	ug/L	2		07/30/24 08:46
Toluene	7.50	U	10.0	5.00	7.50	ug/L	2		07/30/24 08:46
Xylenes (total)	584		10.0	5.00	7.50	ug/L	2		07/30/24 08:46
Surrogates									
1,4-Difluorobenzene (surr)	148	*	77-115			%	2		07/30/24 08:46

Batch Information

Analytical Batch: VFC16916
Analytical Method: SW8021B
Analyst: T.L
Analytical Date/Time: 07/30/24 08:46
Container ID: 1243825023-C

Prep Batch: VXX41574
Prep Method: SW5030B
Prep Date/Time: 07/29/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW26-072024**

Client Sample ID: **MW26-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825023
Lab Project ID: 1243825

Collection Date: 07/20/24 14:25
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:58
1,1,1-Trichloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
1,1,2,2-Tetrachloroethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:58
1,1,2-Trichloroethane	0.300	U	0.400	0.120	0.300	ug/L	1		07/31/24 23:58
1,1-Dichloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
1,1-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
1,1-Dichloropropene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
1,2,3-Trichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
1,2,3-Trichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
1,2,4-Trichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
1,2,4-Trimethylbenzene	160		1.00	0.310	0.750	ug/L	1		07/31/24 23:58
1,2-Dibromo-3-chloropropane	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:58
1,2-Dibromoethane	0.0562	U	0.0750	0.0180	0.0562	ug/L	1		07/31/24 23:58
1,2-Dichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
1,2-Dichloroethane	0.375	U	0.500	0.200	0.375	ug/L	1		07/31/24 23:58
1,2-Dichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
1,3,5-Trimethylbenzene	49.6		1.00	0.310	0.750	ug/L	1		07/31/24 23:58
1,3-Dichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
1,3-Dichloropropane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:58
1,4-Dichlorobenzene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:58
2,2-Dichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
2-Butanone (MEK)	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:58
2-Chlorotoluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
2-Hexanone	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:58
4-Chlorotoluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
4-Isopropyltoluene	4.60		1.00	0.310	0.750	ug/L	1		07/31/24 23:58
4-Methyl-2-pentanone (MIBK)	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:58
Benzene	3.00		0.400	0.120	0.300	ug/L	1		07/31/24 23:58
Bromobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
Bromochloromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
Bromodichloromethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:58
Bromoform	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
Bromomethane	4.50	U	6.00	3.00	4.50	ug/L	1		07/31/24 23:58
Carbon disulfide	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:58
Carbon tetrachloride	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
Chlorobenzene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:58

Results of **MW26-072024**

Client Sample ID: **MW26-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825023
Lab Project ID: 1243825

Collection Date: 07/20/24 14:25
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
Chloroform	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
Chloromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
cis-1,2-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
cis-1,3-Dichloropropene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:58
Dibromochloromethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:58
Dibromomethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
Dichlorodifluoromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
Ethylbenzene	87.6		1.00	0.310	0.750	ug/L	1		07/31/24 23:58
Freon-113	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:58
Hexachlorobutadiene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
Isopropylbenzene (Cumene)	9.63		1.00	0.310	0.750	ug/L	1		07/31/24 23:58
Methylene chloride	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:58
Methyl-t-butyl ether	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:58
Naphthalene	110		1.00	0.310	0.750	ug/L	1		07/31/24 23:58
n-Butylbenzene	1.30		1.00	0.310	0.750	ug/L	1		07/31/24 23:58
n-Propylbenzene	14.8		1.00	0.310	0.750	ug/L	1		07/31/24 23:58
o-Xylene	1.56	J	2.00	0.620	1.50	ug/L	2		08/03/24 22:55
P & M -Xylene	520		4.00	1.24	3.00	ug/L	2		08/03/24 22:55
sec-Butylbenzene	2.72		1.00	0.310	0.750	ug/L	1		07/31/24 23:58
Styrene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
tert-Butylbenzene	0.570	J	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
Tetrachloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
Toluene	2.90		1.00	0.310	0.750	ug/L	1		07/31/24 23:58
trans-1,2-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
trans-1,3-Dichloropropene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
Trichloroethene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 23:58
Trichlorofluoromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 23:58
Vinyl acetate	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 23:58
Vinyl chloride	0.112	U	0.150	0.0500	0.112	ug/L	1		07/31/24 23:58
Xylenes (total)	522		6.00	2.00	4.50	ug/L	2		08/03/24 22:55
Surrogates									
1,2-Dichloroethane-D4 (surr)	99		81-118			%	1		07/31/24 23:58
4-Bromofluorobenzene (surr)	99		85-114			%	1		07/31/24 23:58
Toluene-d8 (surr)	104		89-112			%	1		07/31/24 23:58

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW26-072024**

Client Sample ID: **MW26-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825023
Lab Project ID: 1243825

Collection Date: 07/20/24 14:25
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS23486
Analytical Method: SW8260D
Analyst: MZ
Analytical Date/Time: 08/03/24 22:55
Container ID: 1243825023-F

Prep Batch: VXX41595
Prep Method: SW5030B
Prep Date/Time: 08/03/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Analytical Batch: VMS23484
Analytical Method: SW8260D
Analyst: MZ
Analytical Date/Time: 07/31/24 23:58
Container ID: 1243825023-D

Prep Batch: VXX41584
Prep Method: SW5030B
Prep Date/Time: 07/31/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **MW26-072024**

Client Sample ID: **MW26-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825023
Lab Project ID: 1243825

Collection Date: 07/20/24 14:25
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Sulfate	0.737		0.200	0.0500	0.150	mg/L	1		07/27/24 08:20

Batch Information

Analytical Batch: WIC6607
Analytical Method: EPA 300.0
Analyst: BRP
Analytical Date/Time: 07/27/24 08:20
Container ID: 1243825023-L

Prep Batch: WXX15340
Prep Method: METHOD
Prep Date/Time: 07/26/24 11:30
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.128	J	0.200	0.0500	0.150	mg/L	2		07/26/24 13:14

Batch Information

Analytical Batch: WFI3132
Analytical Method: SM21 4500NO3-F
Analyst: AJP
Analytical Date/Time: 07/26/24 13:14
Container ID: 1243825023-K

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW29-072024**

Client Sample ID: **MW29-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825024
Lab Project ID: 1243825

Collection Date: 07/20/24 17:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual		LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	8.52			0.0481	0.0144	0.0361	ug/L	1		08/18/24 06:52
2-Methylnaphthalene	15.1			0.0481	0.0144	0.0361	ug/L	1		08/18/24 06:52
Acenaphthene	0.227			0.0481	0.0144	0.0361	ug/L	1		08/18/24 06:52
Acenaphthylene	0.0361	U		0.0481	0.0144	0.0361	ug/L	1		08/18/24 06:52
Anthracene	0.0361	U		0.0481	0.0144	0.0361	ug/L	1		08/18/24 06:52
Benzo(a)Anthracene	0.0361	U		0.0481	0.0144	0.0361	ug/L	1		08/18/24 06:52
Benzo[a]pyrene	0.0144	U		0.0192	0.00596	0.0144	ug/L	1		08/18/24 06:52
Benzo[b]Fluoranthene	0.0361	U		0.0481	0.0144	0.0361	ug/L	1		08/18/24 06:52
Benzo[g,h,i]perylene	0.0361	U		0.0481	0.0144	0.0361	ug/L	1		08/18/24 06:52
Benzo[k]fluoranthene	0.0361	U		0.0481	0.0144	0.0361	ug/L	1		08/18/24 06:52
Chrysene	0.0361	U		0.0481	0.0144	0.0361	ug/L	1		08/18/24 06:52
Dibenzo[a,h]anthracene	0.0144	U		0.0192	0.00596	0.0144	ug/L	1		08/18/24 06:52
Fluoranthene	0.0361	U		0.0481	0.0144	0.0361	ug/L	1		08/18/24 06:52
Fluorene	0.0808			0.0481	0.0144	0.0361	ug/L	1		08/18/24 06:52
Indeno[1,2,3-c,d] pyrene	0.0361	U		0.0481	0.0144	0.0361	ug/L	1		08/18/24 06:52
Naphthalene	25.7			0.0962	0.0298	0.0721	ug/L	1		08/18/24 06:52
Phenanthrene	0.0721	U		0.0962	0.0298	0.0721	ug/L	1		08/18/24 06:52
Pyrene	0.0361	U		0.0481	0.0144	0.0361	ug/L	1		08/18/24 06:52
Surrogates										
2-Methylnaphthalene-d10 (surr)	24.2		*	38-100			%	1		08/18/24 06:52
Fluoranthene-d10 (surr)	24.1		*	30-111			%	1		08/18/24 06:52

Batch Information

Analytical Batch: XMS14416
Analytical Method: 8270E SIM LV (PAH)
Analyst: HBL
Analytical Date/Time: 08/18/24 06:52
Container ID: 1243825024-I

Prep Batch: XXX49919
Prep Method: SW3535A
Prep Date/Time: 07/26/24 15:06
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **MW29-072024**

Client Sample ID: **MW29-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825024
Lab Project ID: 1243825

Collection Date: 07/20/24 17:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	3.92		0.577	0.192	0.433	mg/L	1		08/02/24 18:24
Surrogates									
5a Androstane (surr)	69		50-150			%	1		08/02/24 18:24

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 08/02/24 18:24
Container ID: 1243825024-G

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.974		0.481	0.192	0.361	mg/L	1		08/02/24 18:24
Surrogates									
n-Triacontane-d62 (surr)	87.3		50-150			%	1		08/02/24 18:24

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 08/02/24 18:24
Container ID: 1243825024-G

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **MW29-072024**

Client Sample ID: **MW29-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825024
Lab Project ID: 1243825

Collection Date: 07/20/24 17:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	4.77		0.200	0.0900	0.150	mg/L	2		07/30/24 09:05
Surrogates									
4-Bromofluorobenzene (surr)	182	*	50-150			%	2		07/30/24 09:05

Batch Information

Analytical Batch: VFC16916
Analytical Method: AK101
Analyst: T.L
Analytical Date/Time: 07/30/24 09:05
Container ID: 1243825024-C

Prep Batch: VXX41574
Prep Method: SW5030B
Prep Date/Time: 07/29/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	83.4		1.20	0.300	0.900	ug/L	2		07/30/24 09:05
Ethylbenzene	88.9		10.0	5.00	7.50	ug/L	2		07/30/24 09:05
o-Xylene	48.0		10.0	5.00	7.50	ug/L	2		07/30/24 09:05
P & M -Xylene	368		10.0	5.00	7.50	ug/L	2		07/30/24 09:05
Toluene	22.6		10.0	5.00	7.50	ug/L	2		07/30/24 09:05
Xylenes (total)	416		10.0	5.00	7.50	ug/L	2		07/30/24 09:05
Surrogates									
1,4-Difluorobenzene (surr)	140	*	77-115			%	2		07/30/24 09:05

Batch Information

Analytical Batch: VFC16916
Analytical Method: SW8021B
Analyst: T.L
Analytical Date/Time: 07/30/24 09:05
Container ID: 1243825024-C

Prep Batch: VXX41574
Prep Method: SW5030B
Prep Date/Time: 07/29/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW29-072024**

Client Sample ID: **MW29-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825024
Lab Project ID: 1243825

Collection Date: 07/20/24 17:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:14
1,1,1-Trichloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
1,1,2,2-Tetrachloroethane	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:14
1,1,2-Trichloroethane	0.300	U	0.400	0.120	0.300	ug/L	1		08/01/24 00:14
1,1-Dichloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
1,1-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
1,1-Dichloropropene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
1,2,3-Trichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
1,2,3-Trichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
1,2,4-Trichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
1,2,4-Trimethylbenzene	174		1.00	0.310	0.750	ug/L	1		08/01/24 00:14
1,2-Dibromo-3-chloropropane	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:14
1,2-Dibromoethane	0.0562	U	0.0750	0.0180	0.0562	ug/L	1		08/01/24 00:14
1,2-Dichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
1,2-Dichloroethane	0.375	U	0.500	0.200	0.375	ug/L	1		08/01/24 00:14
1,2-Dichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
1,3,5-Trimethylbenzene	66.3		1.00	0.310	0.750	ug/L	1		08/01/24 00:14
1,3-Dichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
1,3-Dichloropropane	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:14
1,4-Dichlorobenzene	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:14
2,2-Dichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
2-Butanone (MEK)	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:14
2-Chlorotoluene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
2-Hexanone	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:14
4-Chlorotoluene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
4-Isopropyltoluene	4.95		1.00	0.310	0.750	ug/L	1		08/01/24 00:14
4-Methyl-2-pentanone (MIBK)	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:14
Benzene	66.4		0.400	0.120	0.300	ug/L	1		08/01/24 00:14
Bromobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
Bromochloromethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
Bromodichloromethane	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:14
Bromoform	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
Bromomethane	4.50	U	6.00	3.00	4.50	ug/L	1		08/01/24 00:14
Carbon disulfide	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:14
Carbon tetrachloride	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
Chlorobenzene	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:14

Results of **MW29-072024**

Client Sample ID: **MW29-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825024
Lab Project ID: 1243825

Collection Date: 07/20/24 17:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
Chloroform	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
Chloromethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
cis-1,2-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
cis-1,3-Dichloropropene	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:14
Dibromochloromethane	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:14
Dibromomethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
Dichlorodifluoromethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
Ethylbenzene	69.2		1.00	0.310	0.750	ug/L	1		08/01/24 00:14
Freon-113	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:14
Hexachlorobutadiene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
Isopropylbenzene (Cumene)	10.1		1.00	0.310	0.750	ug/L	1		08/01/24 00:14
Methylene chloride	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:14
Methyl-t-butyl ether	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:14
Naphthalene	67.7		1.00	0.310	0.750	ug/L	1		08/01/24 00:14
n-Butylbenzene	3.36		1.00	0.310	0.750	ug/L	1		08/01/24 00:14
n-Propylbenzene	21.8		1.00	0.310	0.750	ug/L	1		08/01/24 00:14
o-Xylene	29.6		1.00	0.310	0.750	ug/L	1		08/01/24 00:14
P & M -Xylene	258		2.00	0.620	1.50	ug/L	1		08/01/24 00:14
sec-Butylbenzene	3.57		1.00	0.310	0.750	ug/L	1		08/01/24 00:14
Styrene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
tert-Butylbenzene	1.81		1.00	0.310	0.750	ug/L	1		08/01/24 00:14
Tetrachloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
Toluene	17.9		1.00	0.310	0.750	ug/L	1		08/01/24 00:14
trans-1,2-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
trans-1,3-Dichloropropene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
Trichloroethene	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:14
Trichlorofluoromethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:14
Vinyl acetate	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:14
Vinyl chloride	0.112	U	0.150	0.0500	0.112	ug/L	1		08/01/24 00:14
Xylenes (total)	288		3.00	1.00	2.25	ug/L	1		08/01/24 00:14
Surrogates									
1,2-Dichloroethane-D4 (surr)	98.6		81-118			%	1		08/01/24 00:14
4-Bromofluorobenzene (surr)	99.5		85-114			%	1		08/01/24 00:14
Toluene-d8 (surr)	103		89-112			%	1		08/01/24 00:14

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW29-072024**

Client Sample ID: **MW29-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825024
Lab Project ID: 1243825

Collection Date: 07/20/24 17:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS23484
Analytical Method: SW8260D
Analyst: MZ
Analytical Date/Time: 08/01/24 00:14
Container ID: 1243825024-D

Prep Batch: VXX41584
Prep Method: SW5030B
Prep Date/Time: 07/31/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **MW29-072024**

Client Sample ID: **MW29-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825024
Lab Project ID: 1243825

Collection Date: 07/20/24 17:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Sulfate	0.0580	J	0.200	0.0500	0.150	mg/L	1		07/27/24 08:39

Batch Information

Analytical Batch: WIC6607
Analytical Method: EPA 300.0
Analyst: BRP
Analytical Date/Time: 07/27/24 08:39
Container ID: 1243825024-L

Prep Batch: WXX15340
Prep Method: METHOD
Prep Date/Time: 07/26/24 11:30
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.197	J	0.200	0.0500	0.150	mg/L	2		07/26/24 13:16

Batch Information

Analytical Batch: WFI3132
Analytical Method: SM21 4500NO3-F
Analyst: AJP
Analytical Date/Time: 07/26/24 13:16
Container ID: 1243825024-K

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW30-072024**

Client Sample ID: **MW30-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825025
Lab Project ID: 1243825

Collection Date: 07/20/24 11:10
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	4.99		0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:13
2-Methylnaphthalene	6.34		0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:13
Acenaphthene	0.188		0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:13
Acenaphthylene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:13
Anthracene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:13
Benzo(a)Anthracene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:13
Benzo[a]pyrene	0.0144	U	0.0192	0.00596	0.0144	ug/L	1		08/18/24 07:13
Benzo[b]Fluoranthene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:13
Benzo[g,h,i]perylene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:13
Benzo[k]fluoranthene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:13
Chrysene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:13
Dibenzo[a,h]anthracene	0.0144	U	0.0192	0.00596	0.0144	ug/L	1		08/18/24 07:13
Fluoranthene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:13
Fluorene	0.105		0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:13
Indeno[1,2,3-c,d] pyrene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:13
Naphthalene	11.1		0.0962	0.0298	0.0721	ug/L	1		08/18/24 07:13
Phenanthrene	0.0537	J	0.0962	0.0298	0.0721	ug/L	1		08/18/24 07:13
Pyrene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:13
Surrogates									
2-Methylnaphthalene-d10 (surr)	55.1		38-100			%	1		08/18/24 07:13
Fluoranthene-d10 (surr)	55.5		30-111			%	1		08/18/24 07:13

Batch Information

Analytical Batch: XMS14416
Analytical Method: 8270E SIM LV (PAH)
Analyst: HBL
Analytical Date/Time: 08/18/24 07:13
Container ID: 1243825025-I

Prep Batch: XXX49919
Prep Method: SW3535A
Prep Date/Time: 07/26/24 15:06
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW30-072024**

Client Sample ID: **MW30-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825025
Lab Project ID: 1243825

Collection Date: 07/20/24 11:10
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1.22		0.566	0.189	0.424	mg/L	1		08/02/24 18:34
Surrogates									
5a Androstane (surr)	55.2		50-150			%	1		08/02/24 18:34

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 08/02/24 18:34
Container ID: 1243825025-G

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.608		0.472	0.189	0.354	mg/L	1		08/02/24 18:34
Surrogates									
n-Triacontane-d62 (surr)	76.2		50-150			%	1		08/02/24 18:34

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 08/02/24 18:34
Container ID: 1243825025-G

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 08/01/24 15:40
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Results of **MW30-072024**

Client Sample ID: **MW30-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825025
Lab Project ID: 1243825

Collection Date: 07/20/24 11:10
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	4.28		0.200	0.0900	0.150	mg/L	2		07/30/24 09:23
Surrogates									
4-Bromofluorobenzene (surr)	154	*	50-150			%	2		07/30/24 09:23

Batch Information

Analytical Batch: VFC16916
Analytical Method: AK101
Analyst: T.L
Analytical Date/Time: 07/30/24 09:23
Container ID: 1243825025-C

Prep Batch: VXX41574
Prep Method: SW5030B
Prep Date/Time: 07/29/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	73.8		1.20	0.300	0.900	ug/L	2		07/30/24 09:23
Ethylbenzene	46.8		10.0	5.00	7.50	ug/L	2		07/30/24 09:23
o-Xylene	11.2		10.0	5.00	7.50	ug/L	2		07/30/24 09:23
P & M -Xylene	208		10.0	5.00	7.50	ug/L	2		07/30/24 09:23
Toluene	6.64		5.00	2.50	3.75	ug/L	1		08/01/24 13:10
Xylenes (total)	220		10.0	5.00	7.50	ug/L	2		07/30/24 09:23
Surrogates									
1,4-Difluorobenzene (surr)	132	*	77-115			%	2		07/30/24 09:23

Batch Information

Analytical Batch: VFC16916
Analytical Method: SW8021B
Analyst: T.L
Analytical Date/Time: 07/30/24 09:23
Container ID: 1243825025-C

Prep Batch: VXX41574
Prep Method: SW5030B
Prep Date/Time: 07/29/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Analytical Batch: VFC16921
Analytical Method: SW8021B
Analyst: EJB
Analytical Date/Time: 08/01/24 13:10
Container ID: 1243825025-B

Prep Batch: VXX41585
Prep Method: SW5030B
Prep Date/Time: 07/31/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW30-072024**

Client Sample ID: **MW30-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825025
Lab Project ID: 1243825

Collection Date: 07/20/24 11:10
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:29
1,1,1-Trichloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
1,1,2,2-Tetrachloroethane	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:29
1,1,2-Trichloroethane	0.300	U	0.400	0.120	0.300	ug/L	1		08/01/24 00:29
1,1-Dichloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
1,1-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
1,1-Dichloropropene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
1,2,3-Trichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
1,2,3-Trichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
1,2,4-Trichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
1,2,4-Trimethylbenzene	132		1.00	0.310	0.750	ug/L	1		08/01/24 00:29
1,2-Dibromo-3-chloropropane	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:29
1,2-Dibromoethane	0.0562	U	0.0750	0.0180	0.0562	ug/L	1		08/01/24 00:29
1,2-Dichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
1,2-Dichloroethane	0.375	U	0.500	0.200	0.375	ug/L	1		08/01/24 00:29
1,2-Dichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
1,3,5-Trimethylbenzene	50.4		1.00	0.310	0.750	ug/L	1		08/01/24 00:29
1,3-Dichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
1,3-Dichloropropane	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:29
1,4-Dichlorobenzene	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:29
2,2-Dichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
2-Butanone (MEK)	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:29
2-Chlorotoluene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
2-Hexanone	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:29
4-Chlorotoluene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
4-Isopropyltoluene	5.26		1.00	0.310	0.750	ug/L	1		08/01/24 00:29
4-Methyl-2-pentanone (MIBK)	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:29
Benzene	62.5		0.400	0.120	0.300	ug/L	1		08/01/24 00:29
Bromobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
Bromochloromethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
Bromodichloromethane	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:29
Bromoform	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
Bromomethane	4.50	U	6.00	3.00	4.50	ug/L	1		08/01/24 00:29
Carbon disulfide	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:29
Carbon tetrachloride	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
Chlorobenzene	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:29

Results of **MW30-072024**

Client Sample ID: **MW30-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825025
Lab Project ID: 1243825

Collection Date: 07/20/24 11:10
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
Chloroform	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
Chloromethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
cis-1,2-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
cis-1,3-Dichloropropene	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:29
Dibromochloromethane	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:29
Dibromomethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
Dichlorodifluoromethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
Ethylbenzene	40.8		1.00	0.310	0.750	ug/L	1		08/01/24 00:29
Freon-113	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:29
Hexachlorobutadiene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
Isopropylbenzene (Cumene)	6.47		1.00	0.310	0.750	ug/L	1		08/01/24 00:29
Methylene chloride	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:29
Methyl-t-butyl ether	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:29
Naphthalene	24.8		1.00	0.310	0.750	ug/L	1		08/01/24 00:29
n-Butylbenzene	4.23		1.00	0.310	0.750	ug/L	1		08/01/24 00:29
n-Propylbenzene	15.0		1.00	0.310	0.750	ug/L	1		08/01/24 00:29
o-Xylene	7.14		1.00	0.310	0.750	ug/L	1		08/01/24 00:29
P & M -Xylene	174		2.00	0.620	1.50	ug/L	1		08/01/24 00:29
sec-Butylbenzene	2.58		1.00	0.310	0.750	ug/L	1		08/01/24 00:29
Styrene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
tert-Butylbenzene	1.40		1.00	0.310	0.750	ug/L	1		08/01/24 00:29
Tetrachloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
Toluene	6.59		1.00	0.310	0.750	ug/L	1		08/01/24 00:29
trans-1,2-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
trans-1,3-Dichloropropene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
Trichloroethene	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:29
Trichlorofluoromethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:29
Vinyl acetate	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:29
Vinyl chloride	0.112	U	0.150	0.0500	0.112	ug/L	1		08/01/24 00:29
Xylenes (total)	181		3.00	1.00	2.25	ug/L	1		08/01/24 00:29
Surrogates									
1,2-Dichloroethane-D4 (surr)	105		81-118			%	1		08/01/24 00:29
4-Bromofluorobenzene (surr)	98.8		85-114			%	1		08/01/24 00:29
Toluene-d8 (surr)	101		89-112			%	1		08/01/24 00:29

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **MW30-072024**

Client Sample ID: **MW30-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825025
Lab Project ID: 1243825

Collection Date: 07/20/24 11:10
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS23484
Analytical Method: SW8260D
Analyst: MZ
Analytical Date/Time: 08/01/24 00:29
Container ID: 1243825025-D

Prep Batch: VXX41584
Prep Method: SW5030B
Prep Date/Time: 07/31/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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200 West Potter Drive Anchorage, AK 95518
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Results of **MW30-072024**

Client Sample ID: **MW30-072024**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825025
Lab Project ID: 1243825

Collection Date: 07/20/24 11:10
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Sulfate	0.150	U	0.200	0.0500	0.150	mg/L	1		07/27/24 08:57

Batch Information

Analytical Batch: WIC6607
Analytical Method: EPA 300.0
Analyst: BRP
Analytical Date/Time: 07/27/24 08:57
Container ID: 1243825025-L

Prep Batch: WXX15340
Prep Method: METHOD
Prep Date/Time: 07/26/24 11:30
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.159	J	0.200	0.0500	0.150	mg/L	2		07/26/24 13:18

Batch Information

Analytical Batch: WFI3132
Analytical Method: SM21 4500NO3-F
Analyst: AJP
Analytical Date/Time: 07/26/24 13:18
Container ID: 1243825025-K

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **DUP003**

Client Sample ID: **DUP003**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825026
Lab Project ID: 1243825

Collection Date: 07/20/24 00:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	26.4		0.0500	0.0150	0.0375	ug/L	1		08/18/24 07:33
2-Methylnaphthalene	2.93		0.0500	0.0150	0.0375	ug/L	1		08/18/24 07:33
Acenaphthene	0.425		0.0500	0.0150	0.0375	ug/L	1		08/18/24 07:33
Acenaphthylene	0.0375	U	0.0500	0.0150	0.0375	ug/L	1		08/18/24 07:33
Anthracene	0.0375	U	0.0500	0.0150	0.0375	ug/L	1		08/18/24 07:33
Benzo(a)Anthracene	0.0375	U	0.0500	0.0150	0.0375	ug/L	1		08/18/24 07:33
Benzo[a]pyrene	0.0150	U	0.0200	0.00620	0.0150	ug/L	1		08/18/24 07:33
Benzo[b]Fluoranthene	0.0375	U	0.0500	0.0150	0.0375	ug/L	1		08/18/24 07:33
Benzo[g,h,i]perylene	0.0375	U	0.0500	0.0150	0.0375	ug/L	1		08/18/24 07:33
Benzo[k]fluoranthene	0.0375	U	0.0500	0.0150	0.0375	ug/L	1		08/18/24 07:33
Chrysene	0.0375	U	0.0500	0.0150	0.0375	ug/L	1		08/18/24 07:33
Dibenzo[a,h]anthracene	0.0150	U	0.0200	0.00620	0.0150	ug/L	1		08/18/24 07:33
Fluoranthene	0.0375	U	0.0500	0.0150	0.0375	ug/L	1		08/18/24 07:33
Fluorene	1.55		0.0500	0.0150	0.0375	ug/L	1		08/18/24 07:33
Indeno[1,2,3-c,d] pyrene	0.0375	U	0.0500	0.0150	0.0375	ug/L	1		08/18/24 07:33
Naphthalene	38.5		0.100	0.0310	0.0750	ug/L	1		08/18/24 07:33
Phenanthrene	0.664		0.100	0.0310	0.0750	ug/L	1		08/18/24 07:33
Pyrene	0.0375	U	0.0500	0.0150	0.0375	ug/L	1		08/18/24 07:33
Surrogates									
2-Methylnaphthalene-d10 (surr)	47.3		38-100			%	1		08/18/24 07:33
Fluoranthene-d10 (surr)	67.5		30-111			%	1		08/18/24 07:33

Batch Information

Analytical Batch: XMS14416
Analytical Method: 8270E SIM LV (PAH)
Analyst: HBL
Analytical Date/Time: 08/18/24 07:33
Container ID: 1243825026-I

Prep Batch: XXX49919
Prep Method: SW3535A
Prep Date/Time: 07/26/24 15:06
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Results of **DUP003**

Client Sample ID: **DUP003**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825026
Lab Project ID: 1243825

Collection Date: 07/20/24 00:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1.75		0.577	0.192	0.433	mg/L	1		08/02/24 17:22
Surrogates									
5a Androstane (surr)	70.4		50-150			%	1		08/02/24 17:22

Batch Information

Analytical Batch: XFC16977
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 08/02/24 17:22
Container ID: 1243825026-G

Prep Batch: XXX49959
Prep Method: SW3520C
Prep Date/Time: 08/01/24 18:55
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.504		0.481	0.192	0.361	mg/L	1		08/02/24 17:22
Surrogates									
n-Triacontane-d62 (surr)	90.4		50-150			%	1		08/02/24 17:22

Batch Information

Analytical Batch: XFC16977
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 08/02/24 17:22
Container ID: 1243825026-G

Prep Batch: XXX49959
Prep Method: SW3520C
Prep Date/Time: 08/01/24 18:55
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **DUP003**

Client Sample ID: **DUP003**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825026
Lab Project ID: 1243825

Collection Date: 07/20/24 00:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	5.75		0.500	0.225	0.375	mg/L	5		07/30/24 10:00
Surrogates									
4-Bromofluorobenzene (surr)	116		50-150			%	5		07/30/24 10:00

Batch Information

Analytical Batch: VFC16916
Analytical Method: AK101
Analyst: T.L
Analytical Date/Time: 07/30/24 10:00
Container ID: 1243825026-B

Prep Batch: VXX41574
Prep Method: SW5030B
Prep Date/Time: 07/29/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	3.30		3.00	0.750	2.25	ug/L	5		07/30/24 10:00
Ethylbenzene	87.3		25.0	12.5	18.8	ug/L	5		07/30/24 10:00
o-Xylene	7.50	U	10.0	5.00	7.50	ug/L	2		08/01/24 13:29
P & M -Xylene	612		10.0	5.00	7.50	ug/L	2		08/01/24 13:29
Toluene	7.50	U	10.0	5.00	7.50	ug/L	2		08/01/24 13:29
Xylenes (total)	617		10.0	5.00	7.50	ug/L	2		08/01/24 13:29
Surrogates									
1,4-Difluorobenzene (surr)	124	*	77-115			%	5		07/30/24 10:00

Batch Information

Analytical Batch: VFC16916
Analytical Method: SW8021B
Analyst: T.L
Analytical Date/Time: 07/30/24 10:00
Container ID: 1243825026-B

Prep Batch: VXX41574
Prep Method: SW5030B
Prep Date/Time: 07/29/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Analytical Batch: VFC16921
Analytical Method: SW8021B
Analyst: EJB
Analytical Date/Time: 08/01/24 13:29
Container ID: 1243825026-C

Prep Batch: VXX41585
Prep Method: SW5030B
Prep Date/Time: 07/31/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **DUP003**

Client Sample ID: **DUP003**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825026
Lab Project ID: 1243825

Collection Date: 07/20/24 00:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:44
1,1,1-Trichloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
1,1,2,2-Tetrachloroethane	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:44
1,1,2-Trichloroethane	0.300	U	0.400	0.120	0.300	ug/L	1		08/01/24 00:44
1,1-Dichloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
1,1-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
1,1-Dichloropropene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
1,2,3-Trichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
1,2,3-Trichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
1,2,4-Trichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
1,2,4-Trimethylbenzene	144		1.00	0.310	0.750	ug/L	1		08/01/24 00:44
1,2-Dibromo-3-chloropropane	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:44
1,2-Dibromoethane	0.0562	U	0.0750	0.0180	0.0562	ug/L	1		08/01/24 00:44
1,2-Dichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
1,2-Dichloroethane	0.375	U	0.500	0.200	0.375	ug/L	1		08/01/24 00:44
1,2-Dichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
1,3,5-Trimethylbenzene	44.6		1.00	0.310	0.750	ug/L	1		08/01/24 00:44
1,3-Dichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
1,3-Dichloropropane	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:44
1,4-Dichlorobenzene	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:44
2,2-Dichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
2-Butanone (MEK)	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:44
2-Chlorotoluene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
2-Hexanone	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:44
4-Chlorotoluene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
4-Isopropyltoluene	4.15		1.00	0.310	0.750	ug/L	1		08/01/24 00:44
4-Methyl-2-pentanone (MIBK)	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:44
Benzene	2.99		0.400	0.120	0.300	ug/L	1		08/01/24 00:44
Bromobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
Bromochloromethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
Bromodichloromethane	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:44
Bromoform	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
Bromomethane	4.50	U	6.00	3.00	4.50	ug/L	1		08/01/24 00:44
Carbon disulfide	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:44
Carbon tetrachloride	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
Chlorobenzene	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:44

Results of **DUP003**

Client Sample ID: **DUP003**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825026
Lab Project ID: 1243825

Collection Date: 07/20/24 00:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
Chloroform	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
Chloromethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
cis-1,2-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
cis-1,3-Dichloropropene	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:44
Dibromochloromethane	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:44
Dibromomethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
Dichlorodifluoromethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
Ethylbenzene	83.9		1.00	0.310	0.750	ug/L	1		08/01/24 00:44
Freon-113	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:44
Hexachlorobutadiene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
Isopropylbenzene (Cumene)	9.18		1.00	0.310	0.750	ug/L	1		08/01/24 00:44
Methylene chloride	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:44
Methyl-t-butyl ether	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:44
Naphthalene	103		1.00	0.310	0.750	ug/L	1		08/01/24 00:44
n-Butylbenzene	1.34		1.00	0.310	0.750	ug/L	1		08/01/24 00:44
n-Propylbenzene	13.2		1.00	0.310	0.750	ug/L	1		08/01/24 00:44
o-Xylene	1.38	J	2.00	0.620	1.50	ug/L	2		08/03/24 23:40
P & M -Xylene	490		4.00	1.24	3.00	ug/L	2		08/03/24 23:40
sec-Butylbenzene	2.46		1.00	0.310	0.750	ug/L	1		08/01/24 00:44
Styrene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
tert-Butylbenzene	0.510	J	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
Tetrachloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
Toluene	2.78		1.00	0.310	0.750	ug/L	1		08/01/24 00:44
trans-1,2-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
trans-1,3-Dichloropropene	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
Trichloroethene	0.375	U	0.500	0.150	0.375	ug/L	1		08/01/24 00:44
Trichlorofluoromethane	0.750	U	1.00	0.310	0.750	ug/L	1		08/01/24 00:44
Vinyl acetate	7.50	U	10.0	3.10	7.50	ug/L	1		08/01/24 00:44
Vinyl chloride	0.112	U	0.150	0.0500	0.112	ug/L	1		08/01/24 00:44
Xylenes (total)	491		6.00	2.00	4.50	ug/L	2		08/03/24 23:40
Surrogates									
1,2-Dichloroethane-D4 (surr)	105		81-118			%	1		08/01/24 00:44
4-Bromofluorobenzene (surr)	95.4		85-114			%	1		08/01/24 00:44
Toluene-d8 (surr)	102		89-112			%	1		08/01/24 00:44

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **DUP003**

Client Sample ID: **DUP003**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825026
Lab Project ID: 1243825

Collection Date: 07/20/24 00:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS23484
Analytical Method: SW8260D
Analyst: MZ
Analytical Date/Time: 08/01/24 00:44
Container ID: 1243825026-D

Prep Batch: VXX41584
Prep Method: SW5030B
Prep Date/Time: 07/31/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Analytical Batch: VMS23486
Analytical Method: SW8260D
Analyst: MZ
Analytical Date/Time: 08/03/24 23:40
Container ID: 1243825026-F

Prep Batch: VXX41595
Prep Method: SW5030B
Prep Date/Time: 08/03/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **DUP003**

Client Sample ID: **DUP003**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825026
Lab Project ID: 1243825

Collection Date: 07/20/24 00:00
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Sulfate	0.418		0.200	0.0500	0.150	mg/L	1		07/27/24 09:16

Batch Information

Analytical Batch: WIC6607
Analytical Method: EPA 300.0
Analyst: BRP
Analytical Date/Time: 07/27/24 09:16
Container ID: 1243825026-L

Prep Batch: WXX15340
Prep Method: METHOD
Prep Date/Time: 07/26/24 11:30
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.0837	J	0.100	0.0250	0.0750	mg/L	1		07/26/24 13:30

Batch Information

Analytical Batch: WFI3132
Analytical Method: SM21 4500NO3-F
Analyst: AJP
Analytical Date/Time: 07/26/24 13:30
Container ID: 1243825026-K

Results of **EB381-072124**

Client Sample ID: **EB381-072124**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825027
Lab Project ID: 1243825

Collection Date: 07/21/24 18:30
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1-Methylnaphthalene	0.143		0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:54
2-Methylnaphthalene	0.231		0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:54
Acenaphthene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:54
Acenaphthylene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:54
Anthracene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:54
Benzo(a)Anthracene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:54
Benzo[a]pyrene	0.0144	U	0.0192	0.00596	0.0144	ug/L	1		08/18/24 07:54
Benzo[b]Fluoranthene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:54
Benzo[g,h,i]perylene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:54
Benzo[k]fluoranthene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:54
Chrysene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:54
Dibenzo[a,h]anthracene	0.0144	U	0.0192	0.00596	0.0144	ug/L	1		08/18/24 07:54
Fluoranthene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:54
Fluorene	0.0148	J	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:54
Indeno[1,2,3-c,d] pyrene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:54
Naphthalene	0.0919	J	0.0962	0.0298	0.0721	ug/L	1		08/18/24 07:54
Phenanthrene	0.0721	U	0.0962	0.0298	0.0721	ug/L	1		08/18/24 07:54
Pyrene	0.0361	U	0.0481	0.0144	0.0361	ug/L	1		08/18/24 07:54
Surrogates									
2-Methylnaphthalene-d10 (surr)	54.9		38-100			%	1		08/18/24 07:54
Fluoranthene-d10 (surr)	62.8		30-111			%	1		08/18/24 07:54

Batch Information

Analytical Batch: XMS14416
Analytical Method: 8270E SIM LV (PAH)
Analyst: HBL
Analytical Date/Time: 08/18/24 07:54
Container ID: 1243825027-I

Prep Batch: XXX49919
Prep Method: SW3535A
Prep Date/Time: 07/26/24 15:06
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **EB381-072124**

Client Sample ID: **EB381-072124**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825027
Lab Project ID: 1243825

Collection Date: 07/21/24 18:30
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.433	U	0.577	0.192	0.433	mg/L	1		08/02/24 17:32
Surrogates									
5a Androstane (surr)	62		50-150			%	1		08/02/24 17:32

Batch Information

Analytical Batch: XFC16977
Analytical Method: AK102
Analyst: KFC
Analytical Date/Time: 08/02/24 17:32
Container ID: 1243825027-G

Prep Batch: XXX49959
Prep Method: SW3520C
Prep Date/Time: 08/01/24 18:55
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.361	U	0.481	0.192	0.361	mg/L	1		08/02/24 17:32
Surrogates									
n-Triacontane-d62 (surr)	84.7		50-150			%	1		08/02/24 17:32

Batch Information

Analytical Batch: XFC16977
Analytical Method: AK103
Analyst: KFC
Analytical Date/Time: 08/02/24 17:32
Container ID: 1243825027-G

Prep Batch: XXX49959
Prep Method: SW3520C
Prep Date/Time: 08/01/24 18:55
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **EB381-072124**

Client Sample ID: **EB381-072124**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825027
Lab Project ID: 1243825

Collection Date: 07/21/24 18:30
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0590	J	0.100	0.0450	0.0750	mg/L	1		07/26/24 02:37
Surrogates									
4-Bromofluorobenzene (surr)	79		50-150			%	1		07/26/24 02:37

Batch Information

Analytical Batch: VFC16909
Analytical Method: AK101
Analyst: EJB
Analytical Date/Time: 07/26/24 02:37
Container ID: 1243825027-A

Prep Batch: VXX41545
Prep Method: SW5030B
Prep Date/Time: 07/25/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.450	U	0.600	0.150	0.450	ug/L	1		07/30/24 03:32
Ethylbenzene	3.75	U	5.00	2.50	3.75	ug/L	1		07/30/24 03:32
o-Xylene	3.75	U	5.00	2.50	3.75	ug/L	1		07/30/24 03:32
P & M -Xylene	3.75	U	5.00	2.50	3.75	ug/L	1		07/30/24 03:32
Toluene	3.75	U	5.00	2.50	3.75	ug/L	1		07/30/24 03:32
Xylenes (total)	3.75	U	5.00	2.50	3.75	ug/L	1		07/30/24 03:32
Surrogates									
1,4-Difluorobenzene (surr)	101		77-115			%	1		07/30/24 03:32

Batch Information

Analytical Batch: VFC16916
Analytical Method: SW8021B
Analyst: T.L
Analytical Date/Time: 07/30/24 03:32
Container ID: 1243825027-B

Prep Batch: VXX41574
Prep Method: SW5030B
Prep Date/Time: 07/29/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **EB381-072124**

Client Sample ID: **EB381-072124**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825027
Lab Project ID: 1243825

Collection Date: 07/21/24 18:30
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
1,1,1,2-Tetrachloroethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 20:11
1,1,1-Trichloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
1,1,2,2-Tetrachloroethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 20:11
1,1,2-Trichloroethane	0.300	U	0.400	0.120	0.300	ug/L	1		07/31/24 20:11
1,1-Dichloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
1,1-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
1,1-Dichloropropene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
1,2,3-Trichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
1,2,3-Trichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
1,2,4-Trichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
1,2,4-Trimethylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
1,2-Dibromo-3-chloropropane	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 20:11
1,2-Dibromoethane	0.0562	U	0.0750	0.0180	0.0562	ug/L	1		07/31/24 20:11
1,2-Dichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
1,2-Dichloroethane	0.375	U	0.500	0.200	0.375	ug/L	1		07/31/24 20:11
1,2-Dichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
1,3,5-Trimethylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
1,3-Dichlorobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
1,3-Dichloropropane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 20:11
1,4-Dichlorobenzene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 20:11
2,2-Dichloropropane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
2-Butanone (MEK)	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 20:11
2-Chlorotoluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
2-Hexanone	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 20:11
4-Chlorotoluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
4-Isopropyltoluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
4-Methyl-2-pentanone (MIBK)	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 20:11
Benzene	0.300	U	0.400	0.120	0.300	ug/L	1		07/31/24 20:11
Bromobenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
Bromochloromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
Bromodichloromethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 20:11
Bromoform	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
Bromomethane	4.50	U	6.00	3.00	4.50	ug/L	1		07/31/24 20:11
Carbon disulfide	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 20:11
Carbon tetrachloride	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
Chlorobenzene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 20:11

Results of **EB381-072124**

Client Sample ID: **EB381-072124**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825027
Lab Project ID: 1243825

Collection Date: 07/21/24 18:30
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Chloroethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
Chloroform	0.350	J	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
Chloromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
cis-1,2-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
cis-1,3-Dichloropropene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 20:11
Dibromochloromethane	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 20:11
Dibromomethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
Dichlorodifluoromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
Ethylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
Freon-113	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 20:11
Hexachlorobutadiene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
Isopropylbenzene (Cumene)	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
Methylene chloride	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 20:11
Methyl-t-butyl ether	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 20:11
Naphthalene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
n-Butylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
n-Propylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
o-Xylene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
P & M -Xylene	1.50	U	2.00	0.620	1.50	ug/L	1		07/31/24 20:11
sec-Butylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
Styrene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
tert-Butylbenzene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
Tetrachloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
Toluene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
trans-1,2-Dichloroethene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
trans-1,3-Dichloropropene	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
Trichloroethene	0.375	U	0.500	0.150	0.375	ug/L	1		07/31/24 20:11
Trichlorofluoromethane	0.750	U	1.00	0.310	0.750	ug/L	1		07/31/24 20:11
Vinyl acetate	7.50	U	10.0	3.10	7.50	ug/L	1		07/31/24 20:11
Vinyl chloride	0.112	U	0.150	0.0500	0.112	ug/L	1		07/31/24 20:11
Xylenes (total)	2.25	U	3.00	1.00	2.25	ug/L	1		07/31/24 20:11
Surrogates									
1,2-Dichloroethane-D4 (surr)	112		81-118			%	1		07/31/24 20:11
4-Bromofluorobenzene (surr)	98.5		85-114			%	1		07/31/24 20:11
Toluene-d8 (surr)	100		89-112			%	1		07/31/24 20:11

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Results of **EB381-072124**

Client Sample ID: **EB381-072124**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825027
Lab Project ID: 1243825

Collection Date: 07/21/24 18:30
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS23484
Analytical Method: SW8260D
Analyst: MZ
Analytical Date/Time: 07/31/24 20:11
Container ID: 1243825027-D

Prep Batch: VXX41584
Prep Method: SW5030B
Prep Date/Time: 07/31/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **EB381-072124**

Client Sample ID: **EB381-072124**
Client Project ID: **Dillingham Task 24**
Lab Sample ID: 1243825027
Lab Project ID: 1243825

Collection Date: 07/21/24 18:30
Received Date: 07/22/24 16:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Sulfate	0.150	U	0.200	0.0500	0.150	mg/L	1		07/27/24 09:34

Batch Information

Analytical Batch: WIC6607
Analytical Method: EPA 300.0
Analyst: BRP
Analytical Date/Time: 07/27/24 09:34
Container ID: 1243825027-L

Prep Batch: WXX15340
Prep Method: METHOD
Prep Date/Time: 07/26/24 11:30
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.0750	U	0.100	0.0250	0.0750	mg/L	1		07/26/24 13:32

Batch Information

Analytical Batch: WFI3132
Analytical Method: SM21 4500NO3-F
Analyst: AJP
Analytical Date/Time: 07/26/24 13:32
Container ID: 1243825027-K

Print Date: 08/22/2024 5:22:34PM

J flagging is activated

Method Blank

Blank ID: MB for HBN 1895864 [VXX/41532]
Blank Lab ID: 1776844

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825004

Results by **AK101**

Parameter	Results	LOQ/CL	DL	LOD	Units
Gasoline Range Organics	0.0750U	0.100	0.0450	0.0750	mg/L
Surrogates					
4-Bromofluorobenzene (surr)	92.7	50-150		0	%

Batch Information

Analytical Batch: VFC16906
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: EJB
Analytical Date/Time: 7/24/2024 4:49:00PM

Prep Batch: VXX41532
Prep Method: SW5030B
Prep Date/Time: 7/24/2024 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [VXX41532]
Blank Spike Lab ID: 1776847
Date Analyzed: 07/24/2024 17:46

Spike Duplicate ID: LCSD for HBN 1243825 [VXX41532]
Spike Duplicate Lab ID: 1776848
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825004

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	1.06	106	1.00	1.05	105	(60-120)	1.30	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500		92	0.0500		93	(50-150)	0.80	

Batch Information

Analytical Batch: **VFC16906**
Analytical Method: **AK101**
Instrument: **Agilent 7890 PID/FID**
Analyst: **EJB**

Prep Batch: **VXX41532**
Prep Method: **SW5030B**
Prep Date/Time: **07/24/2024 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

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Method Blank

Blank ID: MB for HBN 1895864 [VXX/41532]
Blank Lab ID: 1776844

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825004

Results by **SW8021B**

Parameter	Results	LOQ/CL	DL	LOD	Units
Benzene	0.450U	0.600	0.150	0.450	ug/L
Ethylbenzene	3.75U	5.00	2.50	3.75	ug/L
o-Xylene	3.75U	5.00	2.50	3.75	ug/L
P & M -Xylene	3.75U	5.00	2.50	3.75	ug/L
Toluene	3.75U	5.00	2.50	3.75	ug/L
Xylenes (total)	3.75U	5.00	2.50	3.75	ug/L
Surrogates					
1,4-Difluorobenzene (surr)	91.1	77-115		0	%

Batch Information

Analytical Batch: VFC16906
Analytical Method: SW8021B
Instrument: Agilent 7890 PID/FID
Analyst: EJB
Analytical Date/Time: 7/24/2024 4:49:00PM

Prep Batch: VXX41532
Prep Method: SW5030B
Prep Date/Time: 7/24/2024 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 1243825 [VXX41532]
Blank Spike Lab ID: 1776845
Date Analyzed: 07/24/2024 17:27

Spike Duplicate ID: LCSD for HBN 1243825 [VXX41532]
Spike Duplicate Lab ID: 1776846
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825004

Results by **SW8021B**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Benzene	100	109	109	100	112	112	(80-120)	2.70	(< 20)
Ethylbenzene	100	101	101	100	103	103	(75-125)	2.60	(< 20)
o-Xylene	100	101	101	100	105	105	(80-120)	3.70	(< 20)
P & M -Xylene	200	202	101	200	208	104	(75-130)	2.70	(< 20)
Toluene	100	105	105	100	108	108	(75-120)	2.50	(< 20)
Xylenes (total)	300	303	101	300	313	104	(79-121)	3.00	(< 20)
Surrogates									
1,4-Difluorobenzene (surr)	50		97	50		97	(77-115)	0.41	

Batch Information

Analytical Batch: **VFC16906**
Analytical Method: **SW8021B**
Instrument: **Agilent 7890 PID/FID**
Analyst: **EJB**

Prep Batch: **VXX41532**
Prep Method: **SW5030B**
Prep Date/Time: **07/24/2024 06:00**
Spike Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1895865 [VXX/41533]
Blank Lab ID: 1776862

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825002, 1243825007, 1243825008, 1243825009, 1243825010, 1243825012, 1243825013, 1243825015, 1243825016, 1243825018, 1243825019, 1243825020, 1243825021

Results by **AK101**

Parameter	Results	LOQ/CL	DL	LOD	Units
Gasoline Range Organics	0.0750U	0.100	0.0450	0.0750	mg/L
Surrogates					
4-Bromofluorobenzene (surr)	86.7	50-150		0	%

Batch Information

Analytical Batch: VFC16906
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: EJB
Analytical Date/Time: 7/25/2024 4:34:00AM

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 7/24/2024 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [VXX41533]
Blank Spike Lab ID: 1776865
Date Analyzed: 07/25/2024 04:15

Spike Duplicate ID: LCSD for HBN 1243825 [VXX41533]
Spike Duplicate Lab ID: 1776866
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825002, 1243825007, 1243825008, 1243825009, 1243825010, 1243825012, 1243825013, 1243825015, 1243825016, 1243825018, 1243825019, 1243825020, 1243825021

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	0.989	99	(60-120)	5.80	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500		91	0.0500		93	(50-150)	2.30	

Batch Information

Analytical Batch: **VFC16906**
Analytical Method: **AK101**
Instrument: **Agilent 7890 PID/FID**
Analyst: **EJB**

Prep Batch: **VXX41533**
Prep Method: **SW5030B**
Prep Date/Time: **07/24/2024 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: 08/22/2024 5:22:58PM

Method Blank

Blank ID: MB for HBN 1895865 [VXX/41533]
Blank Lab ID: 1776862

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825002, 1243825007, 1243825008, 1243825009, 1243825010, 1243825012, 1243825013, 1243825015, 1243825016, 1243825018, 1243825019, 1243825020, 1243825021

Results by **SW8021B**

Parameter	Results	LOQ/CL	DL	LOD	Units
Benzene	0.450U	0.600	0.150	0.450	ug/L
Ethylbenzene	3.75U	5.00	2.50	3.75	ug/L
o-Xylene	3.75U	5.00	2.50	3.75	ug/L
P & M -Xylene	3.75U	5.00	2.50	3.75	ug/L
Toluene	3.75U	5.00	2.50	3.75	ug/L
Xylenes (total)	3.75U	5.00	2.50	3.75	ug/L
Surrogates					
1,4-Difluorobenzene (surr)	91.2	77-115		0	%

Batch Information

Analytical Batch: VFC16906
Analytical Method: SW8021B
Instrument: Agilent 7890 PID/FID
Analyst: EJB
Analytical Date/Time: 7/25/2024 4:34:00AM

Prep Batch: VXX41533
Prep Method: SW5030B
Prep Date/Time: 7/24/2024 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 1243825 [VXX41533]
Blank Spike Lab ID: 1776863
Date Analyzed: 07/25/2024 03:56

Spike Duplicate ID: LCSD for HBN 1243825 [VXX41533]
Spike Duplicate Lab ID: 1776864
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825002, 1243825007, 1243825008, 1243825009, 1243825010, 1243825012, 1243825013, 1243825015, 1243825016, 1243825018, 1243825019, 1243825020, 1243825021

Results by **SW8021B**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Benzene	100	114	114	100	115	115	(80-120)	0.75	(< 20)
Ethylbenzene	100	105	105	100	106	106	(75-125)	0.58	(< 20)
o-Xylene	100	105	105	100	107	107	(80-120)	1.40	(< 20)
P & M -Xylene	200	211	106	200	213	106	(75-130)	0.67	(< 20)
Toluene	100	110	110	100	110	110	(75-120)	0.41	(< 20)
Xylenes (total)	300	317	106	300	320	107	(79-121)	0.91	(< 20)
Surrogates									
1,4-Difluorobenzene (surr)	50		98	50		97	(77-115)	0.27	

Batch Information

Analytical Batch: **VFC16906**
Analytical Method: **SW8021B**
Instrument: **Agilent 7890 PID/FID**
Analyst: **EJB**

Prep Batch: **VXX41533**
Prep Method: **SW5030B**
Prep Date/Time: **07/24/2024 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: 08/22/2024 5:23:05PM

Method Blank

Blank ID: MB for HBN 1895935 [VXX/41545]
Blank Lab ID: 1777102

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825001, 1243825003, 1243825006, 1243825011, 1243825014, 1243825022, 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

Results by **AK101**

Parameter	Results	LOQ/CL	DL	LOD	Units
Gasoline Range Organics	0.0750U	0.100	0.0450	0.0750	mg/L
Surrogates					
4-Bromofluorobenzene (surr)	79.2	50-150		0	%

Batch Information

Analytical Batch: VFC16909
Analytical Method: AK101
Instrument: Agilent 7890A PID/FID
Analyst: EJB
Analytical Date/Time: 7/25/2024 8:08:00PM

Prep Batch: VXX41545
Prep Method: SW5030B
Prep Date/Time: 7/25/2024 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [VXX41545]
Blank Spike Lab ID: 1777105
Date Analyzed: 07/25/2024 21:04

Spike Duplicate ID: LCSD for HBN 1243825 [VXX41545]
Spike Duplicate Lab ID: 1777106
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825001, 1243825003, 1243825006, 1243825011, 1243825014, 1243825022, 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

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	1.20	120	1.00	1.16	116	(60-120)	3.40	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500		87	0.0500		83	(50-150)	4.00	

Batch Information

Analytical Batch: **VFC16909**
Analytical Method: **AK101**
Instrument: **Agilent 7890A PID/FID**
Analyst: **EJB**

Prep Batch: **VXX41545**
Prep Method: **SW5030B**
Prep Date/Time: **07/25/2024 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: 08/22/2024 5:23:11PM

Method Blank

Blank ID: MB for HBN 1895935 [VXX/41545]
Blank Lab ID: 1777102

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825001, 1243825003, 1243825006, 1243825011, 1243825014, 1243825022, 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

Results by **SW8021B**

Parameter	Results	LOQ/CL	DL	LOD	Units
Benzene	0.450U	0.600	0.150	0.450	ug/L
Ethylbenzene	3.75U	5.00	2.50	3.75	ug/L
o-Xylene	3.75U	5.00	2.50	3.75	ug/L
P & M -Xylene	3.75U	5.00	2.50	3.75	ug/L
Toluene	3.75U	5.00	2.50	3.75	ug/L
Xylenes (total)	3.75U	5.00	2.50	3.75	ug/L
Surrogates					
1,4-Difluorobenzene (surr)	108	77-115		0	%

Batch Information

Analytical Batch: VFC16909
Analytical Method: SW8021B
Instrument: Agilent 7890A PID/FID
Analyst: EJB
Analytical Date/Time: 7/25/2024 8:08:00PM

Prep Batch: VXX41545
Prep Method: SW5030B
Prep Date/Time: 7/25/2024 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 1243825 [VXX41545]
Blank Spike Lab ID: 1777103
Date Analyzed: 07/25/2024 20:45

Spike Duplicate ID: LCSD for HBN 1243825 [VXX41545]
Spike Duplicate Lab ID: 1777104
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825001, 1243825003, 1243825006, 1243825011, 1243825014, 1243825022, 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

Results by **SW8021B**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Benzene	100	120	120	100	121	121	* (80-120)	1.20	(< 20)
Ethylbenzene	100	89.3	89	100	90.7	91	(75-125)	1.60	(< 20)
o-Xylene	100	87.7	88	100	90.3	90	(80-120)	2.90	(< 20)
P & M -Xylene	200	176	88	200	180	90	(75-130)	2.60	(< 20)
Toluene	100	93.4	93	100	94.2	94	(75-120)	0.92	(< 20)
Xylenes (total)	300	263	88	300	271	90	(79-121)	2.70	(< 20)
Surrogates									
1,4-Difluorobenzene (surr)	50		115	50		118	* (77-115)	2.80	

Batch Information

Analytical Batch: **VFC16909**
Analytical Method: **SW8021B**
Instrument: **Agilent 7890A PID/FID**
Analyst: **EJB**

Prep Batch: **VXX41545**
Prep Method: **SW5030B**
Prep Date/Time: **07/25/2024 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: 08/22/2024 5:23:17PM

Method Blank

Blank ID: MB for HBN 1896220 [VXX/41558]
Blank Lab ID: 1777581

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825014

Results by **SW8021B**

Parameter	Results	LOQ/CL	DL	LOD	Units
Benzene	0.450U	0.600	0.150	0.450	ug/L
Ethylbenzene	3.75U	5.00	2.50	3.75	ug/L
o-Xylene	3.75U	5.00	2.50	3.75	ug/L
P & M -Xylene	3.75U	5.00	2.50	3.75	ug/L
Toluene	3.75U	5.00	2.50	3.75	ug/L
Xylenes (total)	3.75U	5.00	2.50	3.75	ug/L
Surrogates					
1,4-Difluorobenzene (surr)	89.8	77-115		0	%

Batch Information

Analytical Batch: VFC16912
Analytical Method: SW8021B
Instrument: Agilent 7890 PID/FID
Analyst: T.L
Analytical Date/Time: 7/27/2024 2:48:00AM

Prep Batch: VXX41558
Prep Method: SW5030B
Prep Date/Time: 7/26/2024 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 1243825 [VXX41558]
Blank Spike Lab ID: 1777582
Date Analyzed: 07/27/2024 00:36

Spike Duplicate ID: LCSD for HBN 1243825 [VXX41558]
Spike Duplicate Lab ID: 1777583
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825014

Results by **SW8021B**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Benzene	100	117	117	100	117	117	(80-120)	0.51	(< 20)
Ethylbenzene	100	108	108	100	108	108	(75-125)	0.10	(< 20)
o-Xylene	100	109	109	100	109	109	(80-120)	0.35	(< 20)
P & M -Xylene	200	218	109	200	218	109	(75-130)	0.07	(< 20)
Toluene	100	112	112	100	113	113	(75-120)	0.77	(< 20)
Xylenes (total)	300	327	109	300	327	109	(79-121)	0.07	(< 20)
Surrogates									
1,4-Difluorobenzene (surr)	50		97	50		96	(77-115)	0.60	

Batch Information

Analytical Batch: **VFC16912**
Analytical Method: **SW8021B**
Instrument: **Agilent 7890 PID/FID**
Analyst: **T.L**

Prep Batch: **VXX41558**
Prep Method: **SW5030B**
Prep Date/Time: **07/26/2024 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: 08/22/2024 5:23:22PM

Method Blank

Blank ID: MB for HBN 1896329 [VXX/41574]
Blank Lab ID: 1778030

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825003, 1243825005, 1243825006, 1243825011, 1243825022, 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

Results by **AK101**

Parameter	Results	LOQ/CL	DL	LOD	Units
Gasoline Range Organics	0.0750U	0.100	0.0450	0.0750	mg/L
Surrogates					
4-Bromofluorobenzene (surr)	94.9	50-150		0	%

Batch Information

Analytical Batch: VFC16916
Analytical Method: AK101
Instrument: Agilent 7890A PID/FID
Analyst: T.L
Analytical Date/Time: 7/30/2024 2:36:00AM

Prep Batch: VXX41574
Prep Method: SW5030B
Prep Date/Time: 7/29/2024 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [VXX41574]
Blank Spike Lab ID: 1778033
Date Analyzed: 07/30/2024 06:37

Spike Duplicate ID: LCSD for HBN 1243825 [VXX41574]
Spike Duplicate Lab ID: 1778034
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825003, 1243825005, 1243825006, 1243825011, 1243825022, 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

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	1.00	100	1.00	1.00	100	(60-120)	0.03	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500		108	0.0500		103	(50-150)	5.40	

Batch Information

Analytical Batch: **VFC16916**
Analytical Method: **AK101**
Instrument: **Agilent 7890A PID/FID**
Analyst: **T.L**

Prep Batch: **VXX41574**
Prep Method: **SW5030B**
Prep Date/Time: **07/29/2024 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: 08/22/2024 5:23:28PM

Method Blank

Blank ID: MB for HBN 1896329 [VXX/41574]
Blank Lab ID: 1778030

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825003, 1243825005, 1243825006, 1243825011, 1243825022, 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

Results by **SW8021B**

Parameter	Results	LOQ/CL	DL	LOD	Units
Benzene	0.450U	0.600	0.150	0.450	ug/L
Ethylbenzene	3.75U	5.00	2.50	3.75	ug/L
o-Xylene	3.75U	5.00	2.50	3.75	ug/L
P & M -Xylene	3.75U	5.00	2.50	3.75	ug/L
Toluene	3.75U	5.00	2.50	3.75	ug/L
Xylenes (total)	3.75U	5.00	2.50	3.75	ug/L
Surrogates					
1,4-Difluorobenzene (surr)	103	77-115		0	%

Batch Information

Analytical Batch: VFC16916
Analytical Method: SW8021B
Instrument: Agilent 7890A PID/FID
Analyst: T.L
Analytical Date/Time: 7/30/2024 2:36:00AM

Prep Batch: VXX41574
Prep Method: SW5030B
Prep Date/Time: 7/29/2024 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 1243825 [VXX41574]
Blank Spike Lab ID: 1778031
Date Analyzed: 07/30/2024 06:18

Spike Duplicate ID: LCSD for HBN 1243825 [VXX41574]
Spike Duplicate Lab ID: 1778032
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825003, 1243825005, 1243825006, 1243825011, 1243825022, 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

Results by **SW8021B**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Benzene	100	112	112	100	117	117	(80-120)	4.60	(< 20)
Ethylbenzene	100	108	108	100	110	110	(75-125)	1.90	(< 20)
o-Xylene	100	116	116	100	118	118	(80-120)	1.30	(< 20)
P & M -Xylene	200	224	112	200	228	114	(75-130)	1.70	(< 20)
Toluene	100	105	105	100	108	108	(75-120)	3.10	(< 20)
Xylenes (total)	300	340	113	300	345	115	(79-121)	1.60	(< 20)
Surrogates									
1,4-Difluorobenzene (surr)	50		110	50		113	(77-115)	3.40	

Batch Information

Analytical Batch: **VFC16916**
Analytical Method: **SW8021B**
Instrument: **Agilent 7890A PID/FID**
Analyst: **T.L**

Prep Batch: **VXX41574**
Prep Method: **SW5030B**
Prep Date/Time: **07/29/2024 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: 08/22/2024 5:23:34PM

Method Blank

Blank ID: MB for HBN 1896468 [VXX/41584]
Blank Lab ID: 1778335

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825017, 1243825018, 1243825019, 1243825020, 1243825021, 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

Results by **SW8260D**

Parameter	Results	LOQ/CL	DL	LOD	Units
1,1,1,2-Tetrachloroethane	0.375U	0.500	0.150	0.375	ug/L
1,1,1-Trichloroethane	0.750U	1.00	0.310	0.750	ug/L
1,1,2,2-Tetrachloroethane	0.375U	0.500	0.150	0.375	ug/L
1,1,2-Trichloroethane	0.300U	0.400	0.120	0.300	ug/L
1,1-Dichloroethane	0.750U	1.00	0.310	0.750	ug/L
1,1-Dichloroethene	0.750U	1.00	0.310	0.750	ug/L
1,1-Dichloropropene	0.750U	1.00	0.310	0.750	ug/L
1,2,3-Trichlorobenzene	0.750U	1.00	0.310	0.750	ug/L
1,2,3-Trichloropropane	0.750U	1.00	0.310	0.750	ug/L
1,2,4-Trichlorobenzene	0.750U	1.00	0.310	0.750	ug/L
1,2,4-Trimethylbenzene	0.750U	1.00	0.310	0.750	ug/L
1,2-Dibromo-3-chloropropane	7.50U	10.0	3.10	7.50	ug/L
1,2-Dibromoethane	0.0562U	0.0750	0.0180	0.0562	ug/L
1,2-Dichlorobenzene	0.750U	1.00	0.310	0.750	ug/L
1,2-Dichloroethane	0.375U	0.500	0.200	0.375	ug/L
1,2-Dichloropropane	0.750U	1.00	0.310	0.750	ug/L
1,3,5-Trimethylbenzene	0.750U	1.00	0.310	0.750	ug/L
1,3-Dichlorobenzene	0.750U	1.00	0.310	0.750	ug/L
1,3-Dichloropropane	0.375U	0.500	0.150	0.375	ug/L
1,4-Dichlorobenzene	0.375U	0.500	0.150	0.375	ug/L
2,2-Dichloropropane	0.750U	1.00	0.310	0.750	ug/L
2-Butanone (MEK)	7.50U	10.0	3.10	7.50	ug/L
2-Chlorotoluene	0.750U	1.00	0.310	0.750	ug/L
2-Hexanone	7.50U	10.0	3.10	7.50	ug/L
4-Chlorotoluene	0.750U	1.00	0.310	0.750	ug/L
4-Isopropyltoluene	0.750U	1.00	0.310	0.750	ug/L
4-Methyl-2-pentanone (MIBK)	7.50U	10.0	3.10	7.50	ug/L
Benzene	0.300U	0.400	0.120	0.300	ug/L
Bromobenzene	0.750U	1.00	0.310	0.750	ug/L
Bromochloromethane	0.750U	1.00	0.310	0.750	ug/L
Bromodichloromethane	0.375U	0.500	0.150	0.375	ug/L
Bromoform	0.750U	1.00	0.310	0.750	ug/L
Bromomethane	4.50U	6.00	3.00	4.50	ug/L
Carbon disulfide	7.50U	10.0	3.10	7.50	ug/L
Carbon tetrachloride	0.750U	1.00	0.310	0.750	ug/L
Chlorobenzene	0.375U	0.500	0.150	0.375	ug/L
Chloroethane	0.750U	1.00	0.310	0.750	ug/L
Chloroform	0.750U	1.00	0.310	0.750	ug/L
Chloromethane	0.750U	1.00	0.310	0.750	ug/L
cis-1,2-Dichloroethene	0.750U	1.00	0.310	0.750	ug/L
cis-1,3-Dichloropropene	0.375U	0.500	0.150	0.375	ug/L
Dibromochloromethane	0.375U	0.500	0.150	0.375	ug/L

Method Blank

Blank ID: MB for HBN 1896468 [VXX/41584]
Blank Lab ID: 1778335

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825017, 1243825018, 1243825019, 1243825020, 1243825021, 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

Results by **SW8260D**

Parameter	Results	LOQ/CL	DL	LOD	Units
Dibromomethane	0.750U	1.00	0.310	0.750	ug/L
Dichlorodifluoromethane	0.750U	1.00	0.310	0.750	ug/L
Ethylbenzene	0.750U	1.00	0.310	0.750	ug/L
Freon-113	7.50U	10.0	3.10	7.50	ug/L
Hexachlorobutadiene	0.750U	1.00	0.310	0.750	ug/L
Isopropylbenzene (Cumene)	0.750U	1.00	0.310	0.750	ug/L
Methylene chloride	7.50U	10.0	3.10	7.50	ug/L
Methyl-t-butyl ether	7.50U	10.0	3.10	7.50	ug/L
Naphthalene	0.750U	1.00	0.310	0.750	ug/L
n-Butylbenzene	0.750U	1.00	0.310	0.750	ug/L
n-Propylbenzene	0.750U	1.00	0.310	0.750	ug/L
o-Xylene	0.750U	1.00	0.310	0.750	ug/L
P & M -Xylene	1.50U	2.00	0.620	1.50	ug/L
sec-Butylbenzene	0.750U	1.00	0.310	0.750	ug/L
Styrene	0.750U	1.00	0.310	0.750	ug/L
tert-Butylbenzene	0.750U	1.00	0.310	0.750	ug/L
Tetrachloroethene	0.750U	1.00	0.310	0.750	ug/L
Toluene	0.750U	1.00	0.310	0.750	ug/L
trans-1,2-Dichloroethene	0.750U	1.00	0.310	0.750	ug/L
trans-1,3-Dichloropropene	0.750U	1.00	0.310	0.750	ug/L
Trichloroethene	0.375U	0.500	0.150	0.375	ug/L
Trichlorofluoromethane	0.750U	1.00	0.310	0.750	ug/L
Vinyl acetate	7.50U	10.0	3.10	7.50	ug/L
Vinyl chloride	0.112U	0.150	0.0500	0.112	ug/L
Xylenes (total)	2.25U	3.00	1.00	2.25	ug/L
Surrogates					
1,2-Dichloroethane-D4 (surr)	115	81-118		0	%
4-Bromofluorobenzene (surr)	97.5	85-114		0	%
Toluene-d8 (surr)	99.1	89-112		0	%

Batch Information

Analytical Batch: VMS23484
Analytical Method: SW8260D
Instrument: VPA 780/5975 GC/MS
Analyst: MZ
Analytical Date/Time: 7/31/2024 4:33:00PM

Prep Batch: VXX41584
Prep Method: SW5030B
Prep Date/Time: 7/31/2024 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [VXX41584]
Blank Spike Lab ID: 1778336
Date Analyzed: 07/31/2024 16:48

Spike Duplicate ID: LCSD for HBN 1243825 [VXX41584]
Spike Duplicate Lab ID: 1778337
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825017, 1243825018, 1243825019, 1243825020, 1243825021, 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

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	34.0	113	(78-124)	8.20	(< 20)
1,1,1-Trichloroethane	30	27.7	93	30	29.2	97	(74-131)	5.00	(< 20)
1,1,2,2-Tetrachloroethane	30	27.2	91	30	29.8	99	(71-121)	9.10	(< 20)
1,1,2-Trichloroethane	30	32.0	107	30	33.4	111	(80-119)	4.40	(< 20)
1,1-Dichloroethane	30	28.6	95	30	29.3	98	(77-125)	2.40	(< 20)
1,1-Dichloroethene	30	27.7	92	30	28.5	95	(71-131)	3.10	(< 20)
1,1-Dichloropropene	30	27.6	92	30	29.4	98	(79-125)	6.50	(< 20)
1,2,3-Trichlorobenzene	30	29.1	97	30	32.8	109	(69-129)	12.00	(< 20)
1,2,3-Trichloropropane	30	28.0	93	30	30.6	102	(73-122)	8.80	(< 20)
1,2,4-Trichlorobenzene	30	26.0	87	30	29.5	98	(69-130)	12.80	(< 20)
1,2,4-Trimethylbenzene	30	24.7	83	30	28.6	95	(79-124)	14.30	(< 20)
1,2-Dibromo-3-chloropropane	30	28.3	95	30	31.4	105	(62-128)	10.30	(< 20)
1,2-Dibromoethane	30	32.7	109	30	34.4	115	(77-121)	5.00	(< 20)
1,2-Dichlorobenzene	30	26.1	87	30	29.8	99	(80-119)	13.00	(< 20)
1,2-Dichloroethane	30	31.3	104	30	32.2	107	(73-128)	2.80	(< 20)
1,2-Dichloropropane	30	30.2	101	30	31.3	104	(78-122)	3.50	(< 20)
1,3,5-Trimethylbenzene	30	24.6	82	30	28.1	94	(75-124)	13.30	(< 20)
1,3-Dichlorobenzene	30	26.0	87	30	30.1	100	(80-119)	14.40	(< 20)
1,3-Dichloropropane	30	32.0	107	30	33.5	112	(80-119)	4.50	(< 20)
1,4-Dichlorobenzene	30	26.2	87	30	29.9	100	(79-118)	13.10	(< 20)
2,2-Dichloropropane	30	29.8	99	30	31.0	103	(60-139)	4.00	(< 20)
2-Butanone (MEK)	90	110	122	90	111	124	(56-143)	1.50	(< 20)
2-Chlorotoluene	30	24.9	83	30	28.4	95	(79-122)	13.40	(< 20)
2-Hexanone	90	97.8	109	90	102	113	(57-139)	4.10	(< 20)
4-Chlorotoluene	30	25.1	84	30	29.0	97	(78-122)	14.40	(< 20)
4-Isopropyltoluene	30	25.5	85	30	29.2	97	(77-127)	13.70	(< 20)
4-Methyl-2-pentanone (MIBK)	90	91.3	101	90	95.6	106	(67-130)	4.60	(< 20)
Benzene	30	29.1	97	30	30.5	102	(79-120)	4.80	(< 20)
Bromobenzene	30	26.0	87	30	29.1	97	(80-120)	11.20	(< 20)
Bromochloromethane	30	31.6	105	30	32.4	108	(78-123)	2.40	(< 20)
Bromodichloromethane	30	30.4	101	30	31.7	106	(79-125)	4.20	(< 20)
Bromoform	30	33.6	112	30	35.3	118	(66-130)	5.00	(< 20)
Bromomethane	30	35.4	118	30	37.5	125	(53-141)	5.80	(< 20)

Print Date: 08/22/2024 5:23:39PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [VXX41584]
Blank Spike Lab ID: 1778336
Date Analyzed: 07/31/2024 16:48

Spike Duplicate ID: LCSD for HBN 1243825 [VXX41584]
Spike Duplicate Lab ID: 1778337
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825017, 1243825018, 1243825019, 1243825020, 1243825021, 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

Results by **SW8260D**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Carbon disulfide	45	40.1	89	45	42.3	94	(64-133)	5.30	(< 20)
Carbon tetrachloride	30	29.2	97	30	31.6	105	(72-136)	7.80	(< 20)
Chlorobenzene	30	28.5	95	30	31.1	104	(82-118)	8.60	(< 20)
Chloroethane	30	29.4	98	30	30.1	100	(60-138)	2.20	(< 20)
Chloroform	30	28.4	95	30	29.0	97	(79-124)	2.20	(< 20)
Chloromethane	30	26.9	90	30	26.5	88	(50-139)	1.60	(< 20)
cis-1,2-Dichloroethene	30	28.6	95	30	29.9	100	(78-123)	4.30	(< 20)
cis-1,3-Dichloropropene	30	30.5	102	30	31.9	106	(75-124)	4.20	(< 20)
Dibromochloromethane	30	33.3	111	30	35.1	117	(74-126)	5.20	(< 20)
Dibromomethane	30	31.5	105	30	32.7	109	(79-123)	3.70	(< 20)
Dichlorodifluoromethane	30	28.3	94	30	30.0	100	(32-152)	5.90	(< 20)
Ethylbenzene	30	27.1	90	30	30.1	100	(79-121)	10.60	(< 20)
Freon-113	45	41.1	91	45	45.1	100	(70-136)	9.30	(< 20)
Hexachlorobutadiene	30	31.2	104	30	33.7	112	(66-134)	7.70	(< 20)
Isopropylbenzene (Cumene)	30	26.2	87	30	29.5	98	(72-131)	11.80	(< 20)
Methylene chloride	30	30.0	100	30	30.5	102	(74-124)	1.60	(< 20)
Methyl-t-butyl ether	45	49.1	109	45	50.2	112	(71-124)	2.20	(< 20)
Naphthalene	30	26.5	89	30	31.1	104	(61-128)	15.80	(< 20)
n-Butylbenzene	30	25.9	86	30	29.9	100	(75-128)	14.30	(< 20)
n-Propylbenzene	30	24.9	83	30	28.3	94	(76-126)	12.80	(< 20)
o-Xylene	30	27.7	92	30	30.4	101	(78-122)	9.40	(< 20)
P & M -Xylene	60	55.3	92	60	60.7	101	(80-121)	9.40	(< 20)
sec-Butylbenzene	30	24.7	82	30	28.1	94	(77-126)	13.10	(< 20)
Styrene	30	29.3	98	30	31.8	106	(78-123)	8.40	(< 20)
tert-Butylbenzene	30	24.3	81	30	27.9	93	(78-124)	13.80	(< 20)
Tetrachloroethene	30	27.7	93	30	31.1	104	(74-129)	11.50	(< 20)
Toluene	30	27.7	92	30	29.9	100	(80-121)	7.50	(< 20)
trans-1,2-Dichloroethene	30	28.3	94	30	29.1	97	(75-124)	2.90	(< 20)
trans-1,3-Dichloropropene	30	32.9	110	30	34.5	115	(73-127)	4.80	(< 20)
Trichloroethene	30	27.9	93	30	29.5	98	(79-123)	5.70	(< 20)
Trichlorofluoromethane	30	27.5	92	30	29.1	97	(65-141)	5.60	(< 20)
Vinyl acetate	30	33.0	110	30	33.7	112	(54-146)	2.00	(< 20)
Vinyl chloride	30	27.3	91	30	28.0	93	(58-137)	2.30	(< 20)

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [VXX41584]
Blank Spike Lab ID: 1778336
Date Analyzed: 07/31/2024 16:48

Spike Duplicate ID: LCSD for HBN 1243825 [VXX41584]
Spike Duplicate Lab ID: 1778337
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825017, 1243825018, 1243825019, 1243825020, 1243825021, 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

Results by **SW8260D**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Xylenes (total)	90	83.0	92	90	91.1	101	(79-121)	9.40	(< 20)
Surrogates									
1,2-Dichloroethane-D4 (surr)	30		113	30		110	(81-118)	3.10	
4-Bromofluorobenzene (surr)	30		93	30		94	(85-114)	0.82	
Toluene-d8 (surr)	30		101	30		102	(89-112)	0.53	

Batch Information

Analytical Batch: **VMS23484**
Analytical Method: **SW8260D**
Instrument: **VPA 780/5975 GC/MS**
Analyst: **MZ**

Prep Batch: **VXX41584**
Prep Method: **SW5030B**
Prep Date/Time: **07/31/2024 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 1896470 [VXX/41585]
Blank Lab ID: 1778349

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825025, 1243825026

Results by **SW8021B**

Parameter	Results	LOQ/CL	DL	LOD	Units
o-Xylene	3.75U	5.00	2.50	3.75	ug/L
P & M -Xylene	3.75U	5.00	2.50	3.75	ug/L
Toluene	3.75U	5.00	2.50	3.75	ug/L
Xylenes (total)	3.75U	5.00	2.50	3.75	ug/L
Surrogates					
1,4-Difluorobenzene (surr)	100	77-115		0	%

Batch Information

Analytical Batch: VFC16921
Analytical Method: SW8021B
Instrument: Agilent 7890A PID/FID
Analyst: EJB
Analytical Date/Time: 8/1/2024 5:27:00AM

Prep Batch: VXX41585
Prep Method: SW5030B
Prep Date/Time: 7/31/2024 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 1243825 [VXX41585]
Blank Spike Lab ID: 1778350
Date Analyzed: 08/01/2024 12:33

Spike Duplicate ID: LCSD for HBN 1243825 [VXX41585]
Spike Duplicate Lab ID: 1778351
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825025, 1243825026

Results by **SW8021B**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
o-Xylene	100	118	118	100	94.2	94	(80-120)	22.10	* (< 20)
P & M -Xylene	200	223	111	200	185	93	(75-130)	18.50	(< 20)
Toluene	100	108	108	100	86.9	87	(75-120)	21.20	* (< 20)
Xylenes (total)	300	340	113	300	279	93	(79-121)	19.70	(< 20)
Surrogates									
1,4-Difluorobenzene (surr)	50		110	50		115	(77-115)	3.70	

Batch Information

Analytical Batch: **VFC16921**
Analytical Method: **SW8021B**
Instrument: **Agilent 7890A PID/FID**
Analyst: **EJB**

Prep Batch: **VXX41585**
Prep Method: **SW5030B**
Prep Date/Time: **07/31/2024 06:00**
Spike Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1896755 [VXX/41595]
Blank Lab ID: 1778853

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825023, 1243825026

Results by **SW8260D**

Parameter	Results	LOQ/CL	DL	LOD	Units
o-Xylene	0.750U	1.00	0.310	0.750	ug/L
P & M -Xylene	1.50U	2.00	0.620	1.50	ug/L
Xylenes (total)	2.25U	3.00	1.00	2.25	ug/L
Surrogates					
1,2-Dichloroethane-D4 (surr)	109	81-118		0	%
4-Bromofluorobenzene (surr)	97.3	85-114		0	%
Toluene-d8 (surr)	100	89-112		0	%

Batch Information

Analytical Batch: VMS23486
Analytical Method: SW8260D
Instrument: VPA 780/5975 GC/MS
Analyst: MZ
Analytical Date/Time: 8/3/2024 6:39:00PM

Prep Batch: VXX41595
Prep Method: SW5030B
Prep Date/Time: 8/3/2024 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [VXX41595]
Blank Spike Lab ID: 1778854
Date Analyzed: 08/03/2024 18:54

Spike Duplicate ID: LCSD for HBN 1243825 [VXX41595]
Spike Duplicate Lab ID: 1778855
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825023, 1243825026

Results by **SW8260D**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
o-Xylene	30	27.9	93	30	26.1	87	(78-122)	6.60	(< 20)
P & M -Xylene	60	56.3	94	60	51.6	86	(80-121)	8.70	(< 20)
Xylenes (total)	90	84.2	94	90	77.7	86	(79-121)	8.00	(< 20)
Surrogates									
1,2-Dichloroethane-D4 (surr)	30		110	30		107	(81-118)	2.40	
4-Bromofluorobenzene (surr)	30		94	30		96	(85-114)	2.10	
Toluene-d8 (surr)	30		102	30		102	(89-112)	0.26	

Batch Information

Analytical Batch: **VMS23486**
Analytical Method: **SW8260D**
Instrument: **VPA 780/5975 GC/MS**
Analyst: **MZ**

Prep Batch: **VXX41595**
Prep Method: **SW5030B**
Prep Date/Time: **08/03/2024 06:00**
Spike Init Wt./Vol.: 90 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 90 ug/L Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1895900 (WFI/3132)
Blank Lab ID: 1777047

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825018, 1243825019, 1243825020, 1243825021, 1243825023, 1243825024, 1243825025

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	LOD	Units
Nitrate-N	0.150U	0.200	0.0500	0.150	mg/L
Nitrite-N	0.150U	0.200	0.0500	0.150	mg/L
Total Nitrate/Nitrite-N	0.150U	0.200	0.0500	0.150	mg/L

Batch Information

Analytical Batch: WFI3132
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AJP
Analytical Date/Time: 7/26/2024 12:34:28PM

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Method Blank

Blank ID: MB for HBN 1895900 (WFI/3132)
Blank Lab ID: 1777049

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825018, 1243825019, 1243825020, 1243825021, 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	LOD	Units
Nitrate-N	0.150U	0.200	0.0500	0.150	mg/L
Nitrite-N	0.150U	0.200	0.0500	0.150	mg/L
Total Nitrate/Nitrite-N	0.150U	0.200	0.0500	0.150	mg/L

Batch Information

Analytical Batch: WFI3132
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AJP
Analytical Date/Time: 7/26/2024 1:21:44PM

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Method Blank

Blank ID: MB for HBN 1895900 (WFI/3132)
Blank Lab ID: 1777051

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825026, 1243825027

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	LOD	Units
Nitrate-N	0.150U	0.200	0.0500	0.150	mg/L
Nitrite-N	0.150U	0.200	0.0500	0.150	mg/L
Total Nitrate/Nitrite-N	0.150U	0.200	0.0500	0.150	mg/L

Batch Information

Analytical Batch: WFI3132
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AJP
Analytical Date/Time: 7/26/2024 2:07:14PM

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Method Blank

Blank ID: MB for HBN 1895900 (WFI/3132)
Blank Lab ID: 1777053

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	LOD	Units
Nitrate-N	0.150U	0.200	0.0500	0.150	mg/L
Nitrite-N	0.150U	0.200	0.0500	0.150	mg/L
Total Nitrate/Nitrite-N	0.150U	0.200	0.0500	0.150	mg/L

Batch Information

Analytical Batch: WFI3132
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AJP
Analytical Date/Time: 7/26/2024 2:52:44PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [WFI3132]
Blank Spike Lab ID: 1777046
Date Analyzed: 07/26/2024 12:32

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825018, 1243825019, 1243825020, 1243825021, 1243825023, 1243825024, 1243825025

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.49	100	(70-130)
Nitrite-N	2.5	2.51	100	(90-110)
Total Nitrate/Nitrite-N	5	5.00	100	(90-110)

Batch Information

Analytical Batch: **WFI3132**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **AJP**

Print Date: 08/22/2024 5:23:58PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [WFI3132]
Blank Spike Lab ID: 1777048
Date Analyzed: 07/26/2024 13:19

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825018, 1243825019, 1243825020, 1243825021, 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.69	108	(70-130)
Nitrite-N	2.5	2.69	107	(90-110)
Total Nitrate/Nitrite-N	5	5.38	108	(90-110)

Batch Information

Analytical Batch: **WFI3132**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **AJP**

Print Date: 08/22/2024 5:23:58PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [WFI3132]
Blank Spike Lab ID: 1777050
Date Analyzed: 07/26/2024 14:05

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825026, 1243825027

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.71	108	(70-130)
Nitrite-N	2.5	2.61	105	(90-110)
Total Nitrate/Nitrite-N	5	5.33	107	(90-110)

Batch Information

Analytical Batch: **WFI3132**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **AJP**

Print Date: 08/22/2024 5:23:58PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [WFI3132]
Blank Spike Lab ID: 1777052
Date Analyzed: 07/26/2024 14:50

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.52	101	(70-130)
Nitrite-N	2.5	2.65	106	(90-110)
Total Nitrate/Nitrite-N	5	5.17	103	(90-110)

Batch Information

Analytical Batch: **WFI3132**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **AJP**

Print Date: 08/22/2024 5:23:58PM

Matrix Spike Summary

Original Sample ID: 1243755004
MS Sample ID: 1777021 MS
MSD Sample ID: 1777022 MSD

Analysis Date: 07/26/2024 12:39
Analysis Date: 07/26/2024 12:41
Analysis Date: 07/26/2024 12:43
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825018, 1243825019, 1243825020, 1243825021, 1243825023, 1243825024, 1243825025

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	0.200U	5.00	4.85	97	5.00	5.27	105	90-110	8.30	(< 25)

Batch Information

Analytical Batch: WFI3132
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AJP
Analytical Date/Time: 7/26/2024 12:41:00PM

Print Date: 08/22/2024 5:23:59PM

Matrix Spike Summary

Original Sample ID: 1243833001
MS Sample ID: 1777023 MS
MSD Sample ID: 1777024 MSD

Analysis Date: 07/26/2024 13:25
Analysis Date: 07/26/2024 13:26
Analysis Date: 07/26/2024 13:28
Matrix: Drinking Water

QC for Samples: 1243825018, 1243825019, 1243825020, 1243825021, 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

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	0.200U	5.00	4.92	98	5.00	4.95	99	90-110	0.66	(< 25)

Batch Information

Analytical Batch: WFI3132
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AJP
Analytical Date/Time: 7/26/2024 1:26:00PM

Print Date: 08/22/2024 5:23:59PM

Matrix Spike Summary

Original Sample ID: 1243862001
MS Sample ID: 1777025 MS
MSD Sample ID: 1777026 MSD

Analysis Date: 07/26/2024 14:10
Analysis Date: 07/26/2024 14:12
Analysis Date: 07/26/2024 14:14
Matrix: Drinking Water

QC for Samples: 1243825026, 1243825027

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	0.200U	5.00	5.7	114 *	5.00	5.57	111 *	90-110	2.40	(< 25)

Batch Information

Analytical Batch: WFI3132
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AJP
Analytical Date/Time: 7/26/2024 2:12:00PM

Print Date: 08/22/2024 5:23:59PM

Method Blank

Blank ID: MB for HBN 1896218 [WXX/15340]
Blank Lab ID: 1777574

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825018, 1243825019, 1243825020, 1243825021, 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

Results by **EPA 300.0**

Parameter	Results	LOQ/CL	DL	LOD	Units
Sulfate	0.150U	0.200	0.0500	0.150	mg/L

Batch Information

Analytical Batch: WIC6607
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: BRP
Analytical Date/Time: 7/27/2024 1:15:03AM

Prep Batch: WXX15340
Prep Method: METHOD
Prep Date/Time: 7/26/2024 11:30:00AM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [WXX15340]
Blank Spike Lab ID: 1777575
Date Analyzed: 07/27/2024 01:33

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825018, 1243825019, 1243825020, 1243825021, 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

Results by **EPA 300.0**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Sulfate	5	5.15	103	(90-110)

Batch Information

Analytical Batch: **WIC6607**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **BRP**

Prep Batch: **WXX15340**
Prep Method: **METHOD**
Prep Date/Time: **07/26/2024 11:30**
Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
Dupe Init Wt./Vol.: Extract Vol:

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Matrix Spike Summary

Original Sample ID: 1777558
MS Sample ID: 1777576 MS
MSD Sample ID:

Analysis Date: 07/27/2024 1:52
Analysis Date: 07/27/2024 2:10
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825018, 1243825019, 1243825020, 1243825021, 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

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	1.21	5.00	6.42	104				90-110		

Batch Information

Analytical Batch: WIC6607
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: BRP
Analytical Date/Time: 7/27/2024 2:10:33AM

Prep Batch: WXX15340
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 7/26/2024 11:30:00AM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 08/22/2024 5:24:08PM

Matrix Spike Summary

Original Sample ID: 1777565
MS Sample ID: 1777577 MS
MSD Sample ID:

Analysis Date: 07/27/2024 2:29
Analysis Date: 07/27/2024 3:24
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825018, 1243825019, 1243825020, 1243825021, 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

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	1.22	5.00	6.34	102				90-110		

Batch Information

Analytical Batch: WIC6607
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: BRP
Analytical Date/Time: 7/27/2024 3:24:38AM

Prep Batch: WXX15340
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 7/26/2024 11:30:00AM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 08/22/2024 5:24:08PM

Method Blank

Blank ID: MB for HBN 1895788 [XXX/49906]
Blank Lab ID: 1776675

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825018, 1243825019, 1243825020, 1243825021

Results by **8270E SIM LV (PAH)**

Parameter	Results	LOQ/CL	DL	LOD	Units
1-Methylnaphthalene	0.0375U	0.0500	0.0150	0.0375	ug/L
2-Methylnaphthalene	0.0310J	0.0500	0.0150	0.0375	ug/L
Acenaphthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Acenaphthylene	0.0375U	0.0500	0.0150	0.0375	ug/L
Anthracene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo(a)Anthracene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[a]pyrene	0.0150U	0.0200	0.00620	0.0150	ug/L
Benzo[b]Fluoranthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[g,h,i]perylene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[k]fluoranthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Chrysene	0.0375U	0.0500	0.0150	0.0375	ug/L
Dibenzo[a,h]anthracene	0.0150U	0.0200	0.00620	0.0150	ug/L
Fluoranthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Fluorene	0.0375U	0.0500	0.0150	0.0375	ug/L
Indeno[1,2,3-c,d] pyrene	0.0375U	0.0500	0.0150	0.0375	ug/L
Naphthalene	0.0750U	0.100	0.0310	0.0750	ug/L
Phenanthrene	0.0750U	0.100	0.0310	0.0750	ug/L
Pyrene	0.0375U	0.0500	0.0150	0.0375	ug/L
Surrogates					
2-Methylnaphthalene-d10 (surr)	70.8	38-100		0	%
Fluoranthene-d10 (surr)	77.6	30-111		0	%

Batch Information

Analytical Batch: XMS14390
Analytical Method: 8270E SIM LV (PAH)
Instrument: Agilent 8890 GC/MS SYA
Analyst: HBL
Analytical Date/Time: 8/7/2024 2:14:00PM

Prep Batch: XXX49906
Prep Method: SW3535A
Prep Date/Time: 7/25/2024 2:12:00PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [XXX49906]
Blank Spike Lab ID: 1776676
Date Analyzed: 08/07/2024 14:30

Spike Duplicate ID: LCSD for HBN 1243825 [XXX49906]
Spike Duplicate Lab ID: 1776677
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825018, 1243825019, 1243825020, 1243825021

Results by **8270E 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	1.08	54	2	1.07	53	(41-115)	1.20	(< 20)
2-Methylnaphthalene	2	1.14	57	2	1.11	56	(39-114)	2.00	(< 20)
Acenaphthene	2	1.21	61	2	1.23	61	(48-114)	1.20	(< 20)
Acenaphthylene	2	1.26	63	2	1.25	62	(35-121)	1.10	(< 20)
Anthracene	2	1.46	73	2	1.35	67	(53-119)	7.80	(< 20)
Benzo(a)Anthracene	2	1.50	75	2	1.49	75	(59-120)	0.05	(< 20)
Benzo[a]pyrene	2	1.56	78	2	1.55	78	(53-120)	0.77	(< 20)
Benzo[b]Fluoranthene	2	1.55	77	2	1.59	79	(53-126)	2.50	(< 20)
Benzo[g,h,i]perylene	2	1.72	86	2	1.69	85	(44-128)	1.40	(< 20)
Benzo[k]fluoranthene	2	1.59	79	2	1.57	78	(54-125)	1.40	(< 20)
Chrysene	2	1.50	75	2	1.47	74	(57-120)	1.80	(< 20)
Dibenzo[a,h]anthracene	2	1.70	85	2	1.67	84	(44-131)	1.60	(< 20)
Fluoranthene	2	1.43	72	2	1.30	65	(58-120)	9.60	(< 20)
Fluorene	2	1.28	64	2	1.23	62	(50-118)	3.90	(< 20)
Indeno[1,2,3-c,d] pyrene	2	1.64	82	2	1.64	82	(48-130)	0.07	(< 20)
Naphthalene	2	1.08	54	2	1.10	55	(43-114)	1.90	(< 20)
Phenanthrene	2	1.44	72	2	1.35	68	(53-115)	6.10	(< 20)
Pyrene	2	1.49	74	2	1.38	69	(53-121)	7.70	(< 20)
Surrogates									
2-Methylnaphthalene-d10 (surr)	2		55	2		56	(38-100)	2.10	
Fluoranthene-d10 (surr)	2		70	2		66	(30-111)	6.00	

Batch Information

Analytical Batch: **XMS14390**
Analytical Method: **8270E SIM LV (PAH)**
Instrument: **Agilent 8890 GC/MS SYA**
Analyst: **HBL**

Prep Batch: **XXX49906**
Prep Method: **SW3535A**
Prep Date/Time: **07/25/2024 14:12**
Spike Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL

Print Date: 08/22/2024 5:24:13PM

Method Blank

Blank ID: MB for HBN 1895899 [XXX/49919]
Blank Lab ID: 1777017

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825023, 1243825024, 1243825025, 1243825026, 1243825027

Results by **8270E SIM LV (PAH)**

Parameter	Results	LOQ/CL	DL	LOD	Units
1-Methylnaphthalene	0.0375U	0.0500	0.0150	0.0375	ug/L
2-Methylnaphthalene	0.0375U	0.0500	0.0150	0.0375	ug/L
Acenaphthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Acenaphthylene	0.0375U	0.0500	0.0150	0.0375	ug/L
Anthracene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo(a)Anthracene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[a]pyrene	0.0150U	0.0200	0.00620	0.0150	ug/L
Benzo[b]Fluoranthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[g,h,i]perylene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[k]fluoranthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Chrysene	0.0375U	0.0500	0.0150	0.0375	ug/L
Dibenzo[a,h]anthracene	0.0150U	0.0200	0.00620	0.0150	ug/L
Fluoranthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Fluorene	0.0375U	0.0500	0.0150	0.0375	ug/L
Indeno[1,2,3-c,d] pyrene	0.0375U	0.0500	0.0150	0.0375	ug/L
Naphthalene	0.0750U	0.100	0.0310	0.0750	ug/L
Phenanthrene	0.0750U	0.100	0.0310	0.0750	ug/L
Pyrene	0.0375U	0.0500	0.0150	0.0375	ug/L
Surrogates					
2-Methylnaphthalene-d10 (surr)	59.1	38-100		0	%
Fluoranthene-d10 (surr)	74.2	30-111		0	%

Batch Information

Analytical Batch: XMS14416
Analytical Method: 8270E SIM LV (PAH)
Instrument: Agilent GC 7890B/5977A SWA
Analyst: HBL
Analytical Date/Time: 8/18/2024 3:26:00AM

Prep Batch: XXX49919
Prep Method: SW3535A
Prep Date/Time: 7/26/2024 3:06:00PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [XXX49919]
Blank Spike Lab ID: 1777018
Date Analyzed: 08/18/2024 03:46

Spike Duplicate ID: LCSD for HBN 1243825 [XXX49919]
Spike Duplicate Lab ID: 1777019
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825023, 1243825024, 1243825025, 1243825026, 1243825027

Results by **8270E 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	0.710	36	*	2	1.08	54	(41-115)	41.10	* (< 20)
2-Methylnaphthalene	2	0.729	37	*	2	1.11	56	(39-114)	41.50	* (< 20)
Acenaphthene	2	0.790	40	*	2	1.21	61	(48-114)	42.30	* (< 20)
Acenaphthylene	2	0.814	41		2	1.26	63	(35-121)	43.30	* (< 20)
Anthracene	2	0.975	49	*	2	1.33	66	(53-119)	30.70	* (< 20)
Benzo(a)Anthracene	2	1.42	71		2	1.40	70	(59-120)	1.80	(< 20)
Benzo[a]pyrene	2	1.42	71		2	1.42	71	(53-120)	0.00	(< 20)
Benzo[b]Fluoranthene	2	1.44	72		2	1.42	71	(53-126)	1.60	(< 20)
Benzo[g,h,i]perylene	2	1.54	77		2	1.54	77	(44-128)	0.04	(< 20)
Benzo[k]fluoranthene	2	1.43	72		2	1.42	71	(54-125)	0.89	(< 20)
Chrysene	2	1.42	71		2	1.42	71	(57-120)	0.14	(< 20)
Dibenzo[a,h]anthracene	2	1.50	75		2	1.51	75	(44-131)	0.28	(< 20)
Fluoranthene	2	1.33	66		2	1.39	70	(58-120)	4.60	(< 20)
Fluorene	2	0.835	42	*	2	1.30	65	(50-118)	43.20	* (< 20)
Indeno[1,2,3-c,d] pyrene	2	1.47	74		2	1.48	74	(48-130)	0.29	(< 20)
Naphthalene	2	0.734	37	*	2	1.11	55	(43-114)	40.40	* (< 20)
Phenanthrene	2	0.937	47	*	2	1.30	65	(53-115)	32.40	* (< 20)
Pyrene	2	1.30	65		2	1.36	68	(53-121)	4.50	(< 20)
Surrogates										
2-Methylnaphthalene-d10 (surr)	2		35	*	2		55	(38-100)	44.70	
Fluoranthene-d10 (surr)	2		64		2		70	(30-111)	9.80	

Batch Information

Analytical Batch: **XMS14416**
Analytical Method: **8270E SIM LV (PAH)**
Instrument: **Agilent GC 7890B/5977A SWA**
Analyst: **HBL**

Prep Batch: **XXX49919**
Prep Method: **SW3535A**
Prep Date/Time: **07/26/2024 15:06**
Spike Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL

Print Date: 08/22/2024 5:24:20PM

Method Blank

Blank ID: MB for HBN 1896188 [XXX/49933]
Blank Lab ID: 1777395

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825002, 1243825003, 1243825004, 1243825005, 1243825006

Results by **AK102**

Parameter	Results	LOQ/CL	DL	LOD	Units
Diesel Range Organics	0.450U	0.600	0.200	0.450	mg/L
Surrogates					
5a Androstane (surr)	65.8	60-120		0	%

Batch Information

Analytical Batch: XFC16974
Analytical Method: AK102
Instrument: Agilent 7890B R
Analyst: KFC
Analytical Date/Time: 7/31/2024 1:07:00AM

Prep Batch: XXX49933
Prep Method: SW3520C
Prep Date/Time: 7/29/2024 7:26:00PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [XXX49933]
Blank Spike Lab ID: 1777396
Date Analyzed: 07/31/2024 01:16

Spike Duplicate ID: LCSD for HBN 1243825 [XXX49933]
Spike Duplicate Lab ID: 1777397
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825002, 1243825003, 1243825004, 1243825005, 1243825006

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	13.6	68	*	20	14.9	75	*	(75-125)	9.80	(< 20)
Surrogates											
5a Androstane (surr)	0.4		83		0.4		93		(60-120)	11.10	

Batch Information

Analytical Batch: **XFC16974**
Analytical Method: **AK102**
Instrument: **Agilent 7890B R**
Analyst: **KFC**

Prep Batch: **XXX49933**
Prep Method: **SW3520C**
Prep Date/Time: **07/29/2024 19:26**
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: 08/22/2024 5:24:28PM

Method Blank

Blank ID: MB for HBN 1896188 [XXX/49933]
Blank Lab ID: 1777395

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825002, 1243825003, 1243825004, 1243825005, 1243825006

Results by **AK103**

Parameter	Results	LOQ/CL	DL	LOD	Units
Residual Range Organics	0.375U	0.500	0.200	0.375	mg/L
Surrogates					
n-Triacontane-d62 (surr)	89.7	60-120		0	%

Batch Information

Analytical Batch: XFC16974
Analytical Method: AK103
Instrument: Agilent 7890B R
Analyst: KFC
Analytical Date/Time: 7/31/2024 1:07:00AM

Prep Batch: XXX49933
Prep Method: SW3520C
Prep Date/Time: 7/29/2024 7:26:00PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [XXX49933]
Blank Spike Lab ID: 1777396
Date Analyzed: 07/31/2024 01:16

Spike Duplicate ID: LCSD for HBN 1243825 [XXX49933]
Spike Duplicate Lab ID: 1777397
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825002, 1243825003, 1243825004, 1243825005, 1243825006

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	17.3	86	20	18.7	93	(60-120)	7.70	(< 20)
Surrogates									
n-Triacontane-d62 (surr)	0.4		80	0.4		90	(60-120)	12.00	

Batch Information

Analytical Batch: **XFC16974**
Analytical Method: **AK103**
Instrument: **Agilent 7890B R**
Analyst: **KFC**

Prep Batch: **XXX49933**
Prep Method: **SW3520C**
Prep Date/Time: **07/29/2024 19:26**
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 1896351 [XXX/49951]
Blank Lab ID: 1778164

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825007, 1243825008, 1243825009, 1243825010, 1243825011

Results by **AK102**

Parameter	Results	LOQ/CL	DL	LOD	Units
Diesel Range Organics	0.450U	0.600	0.200	0.450	mg/L
Surrogates					
5a Androstane (surr)	79.4	60-120		0	%

Batch Information

Analytical Batch: XFC16975
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: KFC
Analytical Date/Time: 8/1/2024 4:59:00PM

Prep Batch: XXX49951
Prep Method: SW3520C
Prep Date/Time: 7/31/2024 5:18:00PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [XXX49951]
Blank Spike Lab ID: 1778165
Date Analyzed: 08/01/2024 17:11

Spike Duplicate ID: LCSD for HBN 1243825 [XXX49951]
Spike Duplicate Lab ID: 1778166
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825007, 1243825008, 1243825009, 1243825010, 1243825011

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	16.3	82	20	15.3	76	(75-125)	6.50	(< 20)
Surrogates									
5a Androstane (surr)	0.4		108	0.4		104	(60-120)	4.10	

Batch Information

Analytical Batch: **XFC16975**
Analytical Method: **AK102**
Instrument: **Agilent 7890B F**
Analyst: **KFC**

Prep Batch: **XXX49951**
Prep Method: **SW3520C**
Prep Date/Time: **07/31/2024 17:18**
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: 08/22/2024 5:24:45PM

Method Blank

Blank ID: MB for HBN 1896351 [XXX/49951]
Blank Lab ID: 1778164

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825007, 1243825008, 1243825009, 1243825010, 1243825011

Results by **AK103**

Parameter	Results	LOQ/CL	DL	LOD	Units
Residual Range Organics	0.293J	0.500	0.200	0.375	mg/L
Surrogates					
n-Triacontane-d62 (surr)	111	60-120		0	%

Batch Information

Analytical Batch: XFC16975
Analytical Method: AK103
Instrument: Agilent 7890B F
Analyst: KFC
Analytical Date/Time: 8/1/2024 4:59:00PM

Prep Batch: XXX49951
Prep Method: SW3520C
Prep Date/Time: 7/31/2024 5:18:00PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [XXX49951]
Blank Spike Lab ID: 1778165
Date Analyzed: 08/01/2024 17:11

Spike Duplicate ID: LCSD for HBN 1243825 [XXX49951]
Spike Duplicate Lab ID: 1778166
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825007, 1243825008, 1243825009, 1243825010, 1243825011

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	22.0	110	20	20.2	101	(60-120)	8.20	(< 20)
Surrogates									
n-Triacontane-d62 (surr)	0.4		109	0.4		108	(60-120)	0.84	

Batch Information

Analytical Batch: **XFC16975**
Analytical Method: **AK103**
Instrument: **Agilent 7890B F**
Analyst: **KFC**

Prep Batch: **XXX49951**
Prep Method: **SW3520C**
Prep Date/Time: **07/31/2024 17:18**
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: 08/22/2024 5:24:51PM

Method Blank

Blank ID: MB for HBN 1896479 [XXX/49957]
Blank Lab ID: 1778429

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825012, 1243825013, 1243825014, 1243825015, 1243825016, 1243825018, 1243825019, 1243825020, 1243825021, 1243825022, 1243825023, 1243825024, 1243825025

Results by **AK102**

Parameter	Results	LOQ/CL	DL	LOD	Units
Diesel Range Organics	0.450U	0.600	0.200	0.450	mg/L
Surrogates					
5a Androstane (surr)	73.6	60-120		0	%

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: KFC
Analytical Date/Time: 8/2/2024 3:28:00PM

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 8/1/2024 3:40:00PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [XXX49957]
Blank Spike Lab ID: 1778430
Date Analyzed: 08/02/2024 15:38

Spike Duplicate ID: LCSD for HBN 1243825 [XXX49957]
Spike Duplicate Lab ID: 1778431
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825012, 1243825013, 1243825014, 1243825015, 1243825016, 1243825018, 1243825019, 1243825020, 1243825021, 1243825022, 1243825023, 1243825024, 1243825025

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	16.0	80	20	16.1	81	(75-125)	0.62	(< 20)
Surrogates									
5a Androstane (surr)	0.4		101	0.4		105	(60-120)	3.90	

Batch Information

Analytical Batch: **XFC16978**
Analytical Method: **AK102**
Instrument: **Agilent 7890B F**
Analyst: **KFC**

Prep Batch: **XXX49957**
Prep Method: **SW3520C**
Prep Date/Time: **08/01/2024 15:40**
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: 08/22/2024 5:24:56PM

Method Blank

Blank ID: MB for HBN 1896479 [XXX/49957]
Blank Lab ID: 1778429

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825012, 1243825013, 1243825014, 1243825015, 1243825016, 1243825018, 1243825019, 1243825020, 1243825021, 1243825022, 1243825023, 1243825024, 1243825025

Results by **AK103**

Parameter	Results	LOQ/CL	DL	LOD	Units
Residual Range Organics	0.324J	0.500	0.200	0.375	mg/L
Surrogates					
n-Triacontane-d62 (surr)	106	60-120		0	%

Batch Information

Analytical Batch: XFC16978
Analytical Method: AK103
Instrument: Agilent 7890B F
Analyst: KFC
Analytical Date/Time: 8/2/2024 3:28:00PM

Prep Batch: XXX49957
Prep Method: SW3520C
Prep Date/Time: 8/1/2024 3:40:00PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [XXX49957]
Blank Spike Lab ID: 1778430
Date Analyzed: 08/02/2024 15:38

Spike Duplicate ID: LCSD for HBN 1243825 [XXX49957]
Spike Duplicate Lab ID: 1778431
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825012, 1243825013, 1243825014, 1243825015, 1243825016, 1243825018, 1243825019, 1243825020, 1243825021, 1243825022, 1243825023, 1243825024, 1243825025

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	21.6	108	20	21.7	108	(60-120)	0.44	(< 20)
Surrogates									
n-Triacontane-d62 (surr)	0.4		99	0.4		104	(60-120)	4.30	

Batch Information

Analytical Batch: **XFC16978**
Analytical Method: **AK103**
Instrument: **Agilent 7890B F**
Analyst: **KFC**

Prep Batch: **XXX49957**
Prep Method: **SW3520C**
Prep Date/Time: **08/01/2024 15:40**
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 1896543 [XXX/49959]
Blank Lab ID: 1778531

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825026, 1243825027

Results by **AK102**

Parameter	Results	LOQ/CL	DL	LOD	Units
Diesel Range Organics	0.450U	0.600	0.200	0.450	mg/L
Surrogates					
5a Androstane (surr)	80.6	60-120		0	%

Batch Information

Analytical Batch: XFC16977
Analytical Method: AK102
Instrument: Agilent 7890B R
Analyst: KFC
Analytical Date/Time: 8/2/2024 3:28:00PM

Prep Batch: XXX49959
Prep Method: SW3520C
Prep Date/Time: 8/1/2024 6:55:00PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [XXX49959]
Blank Spike Lab ID: 1778532
Date Analyzed: 08/02/2024 15:38

Spike Duplicate ID: LCSD for HBN 1243825 [XXX49959]
Spike Duplicate Lab ID: 1778533
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825026, 1243825027

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	15.2	76	20	16.2	81	(75-125)	5.90	(< 20)
Surrogates									
5a Androstane (surr)	0.4		92	0.4		103	(60-120)	11.50	

Batch Information

Analytical Batch: **XFC16977**
Analytical Method: **AK102**
Instrument: **Agilent 7890B R**
Analyst: **KFC**

Prep Batch: **XXX49959**
Prep Method: **SW3520C**
Prep Date/Time: **08/01/2024 18:55**
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 1896543 [XXX/49959]
Blank Lab ID: 1778531

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1243825026, 1243825027

Results by **AK103**

Parameter	Results	LOQ/CL	DL	LOD	Units
Residual Range Organics	0.249J	0.500	0.200	0.375	mg/L
Surrogates					
n-Triacontane-d62 (surr)	99.8	60-120		0	%

Batch Information

Analytical Batch: XFC16977
Analytical Method: AK103
Instrument: Agilent 7890B R
Analyst: KFC
Analytical Date/Time: 8/2/2024 3:28:00PM

Prep Batch: XXX49959
Prep Method: SW3520C
Prep Date/Time: 8/1/2024 6:55:00PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1243825 [XXX49959]
Blank Spike Lab ID: 1778532
Date Analyzed: 08/02/2024 15:38

Spike Duplicate ID: LCSD for HBN 1243825 [XXX49959]
Spike Duplicate Lab ID: 1778533
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1243825026, 1243825027

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	18.4	92	20	21.4	107	(60-120)	14.80	(< 20)
Surrogates									
n-Triacontane-d62 (surr)	0.4		90	0.4		105	(60-120)	14.80	

Batch Information

Analytical Batch: **XFC16977**
Analytical Method: **AK103**
Instrument: **Agilent 7890B R**
Analyst: **KFC**

Prep Batch: **XXX49959**
Prep Method: **SW3520C**
Prep Date/Time: **08/01/2024 18:55**
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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CHAIN OF CUSTODY RECORD

1243825

Profile #: 352162 Int.: JG

Page 1 of 3

Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT: FARALLON CONSULTING	
CONTACT: RILEY PAUL	PHONE #: (907) 209-8603
PROJECT NAME: DILLINGHAM TASK 24	Project/Permit Number: / NPDL Number(DOD):
REPORTS TO: RILEY PAUL	E-MAIL: rpaul@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	Sample Type: Comp / Grab / MI	Analysis*: GRO/BTEX (HCl)	Analysis*: DRO/RRO (HCl)	REMARKS/LOC ID
1AC	TRIP BLANK-01	07/16/24	1200	AQ	3	—	3		
2AE	MW8-071624		1545	AQ	5	G	3	2	
3AE	B3MW-071624		1725	AQ	5	G	3	2	
4AE	B2MW-071724	07/17/24	1020	AQ	5	G	3	2	
5AE	B1MW-071724		1300	AQ	5	G	3	2	
6AE	MW13-071724		1440	AQ	5	G	3	2	
7AE	MW12-071724		1605	AQ	5	G	3	2	
8AE	MW5R-071724		1720	AQ	5	G	3	2	
9AE	MW20-071724		1900	AQ	5	G	3	2	
10AE	MW7-071824	07/18/24	0945	AQ	5	G	3	2	

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Comments:

Section 4

DOD Project? YES (NO)

Data Deliverables Requested: DataView, Level 4, SEDD, ERPIMS, EQUIS, Other:_____

Turnaround Time Requested

Standard

Rush

Requested Rush Report Date:_____

SGS Sample Receipt (Lab Use Only)

Delivery Method: (Client) Commercial

Did each cooler have a corresponding COC? (Yes) No

Chain of Custody Seal Condition: INTACT BROKEN (ABSENT)

COC Seal Location(s):_____

Cooler ID	Temperature (°C)	Therm. ID
1.	3.9	053
2.		
3.		

If more than three coolers are received, or for documentation of non-compliant coolers, use form FS-0029.

Note: If temp. is outside 0-6 ° and samples were not taken <8 hours ago OR are waste samples, Client or PM should initial here or attach an email change order to proceed with analysis. If ice is present, note on form F102B.

Intials:_____

Section 5

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
[signature]	07/22/24	0700	ACE AWB# 3288368
ACE	07/22/24	1535	[signature]
	7/22/24	1600	RECEIVED BY

Laboratory Use Only

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CHAIN OF CUSTODY RECORD

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Profile #: Int.:

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Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT: FARALLON CONSULTING

CONTACT: RILEY PAUL | PHONE #: (907)209-8603

PROJECT NAME: DILLINGHAM TASK 24 | Project/Permit Number: | NPDL Number(DOD):

REPORTS TO: RILEY PAUL | E-MAIL: rpaul@farallonconsulting.com

INVOICE TO: DELTA WESTERN | QUOTE #: | P.O. #:

Section 3

Preservative: HCl | HCl | HCl | None | H2SO4 | None

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Sample Type Comp Grab MI	Analysis* GRO/BTEX	DRO/RRO	VOCs	PAH	Nitrate/Nitrite	Sulfate					REMARKS/LOC ID
11AE	MW6-071824	07/18/24	1140	AQ	5	G	3	2									
12AE	MW19-071824		1320	AQ	5	G	3	2									
13AE	MW23-071824		1505	AQ	5	G	3	2									
14AE	MW24-071824		1730	AQ	5	G	3	2									
15AE	DUP001		9999	AQ	5	G	3	2									
16AE	DUP002		9999	AQ	5	G	3	2									
17AC	TRIP BLANK02	07/19/24	0800	AQ	3	—			3								
18AC	MW10-071924		1040	AQ	12	G	3	2	3	2	1	1					
19AC	MW27-071924		1325	AQ	12	G	3	2	3	2	1	1					
20AC	MW16-071924		1515	AQ	12	G	3	2	3	2	1	1					

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Comments:

Section 4

DOD Project? YES / NO

Data Deliverables Requested: DataView | SEDD | EQUIS | Level 4 | ERPIMS | Other:_____

Turnaround Time Requested: Standard | Rush | Requested Rush Report Date:_____

SGS Sample Receipt (Lab Use Only)

Delivery Method: Client / Commercial

Did each cooler have a corresponding COC? Yes / No

Chain of Custody Seal Condition: INTACT / BROKEN / ABSENT

COC Seal Location(s):_____

Section 5

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
	DATE	TIME	RECEIVED BY

Laboratory Use Only

Cooler ID	Temperature (°C)	Therm. ID
1.	1.3	D53
2.		
3.		

If more than three coolers are received, or for documentation of non-compliant coolers, use form FS-0029.

Note: If temp. is outside 0-6° and samples were not taken <8 hours ago OR are waste samples, Client or PM should initial here or attach an email change order to proceed with analysis. If ice is present, note on form F102B.

Intials:_____

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CHAIN OF CUSTODY RECORD

1243825

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Anc
eng
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Profile #: Int.:

Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT: FARALLON CONSULTING

CONTACT: RILEY PAUL | PHONE #: (907)209-8603

PROJECT NAME: DILLINGHAM TASK 24 | Project/Permit Number: | NPDL Number(DOD):

REPORTS TO: RILEY PAUL | E-MAIL: rpaul@farallonconsulting.com

INVOICE TO: DELTA WESTERN | QUOTE #: | P.O. #:

Section 3

Preservative: HCl | HCl | HCl | None | H_2SO_4 | None

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Sample Type Comp	Grab	MI	Analysis* GRO/BTEX	DRO/RRO	VOCs	PAH	Nitrate/Nitrite	Sulfate					REMARKS/LOC ID
21 AL	MW11R-071924	07/19/24	1910	AQ	12		G		3	2	3	2	1	1					
22 AL	MW14-072024	07/20/24	1045	AQ	5		G		3	2									
23 AL	MW26-072024		1425	AQ	12		G		3	2	3	2	1	1					
24 AL	MW29-072024		1700	AQ	12		G		3	2	3	2	1	1					
25 AL	MW30-072024		1910	AQ	12		G		3	2	3	2	1	1					
26 AL	DUP003		9999	AQ	12		G		3	2	3	2	1	1					
27 AL	EB381-072124	07/21/24	1830	AQ	12		G		3	2	3	2	1	1					

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Comments:

Section 4

DOD Project? YES (NO)

Data Deliverables Requested: DataView | SEDD | EQUIS | Level 4 | ERPIMS | Other:_____

Turnaround Time Requested

Standard

Rush

Requested Rush Report Date:_____

SGS Sample Receipt (Lab Use Only)

Delivery Method: (Client) | Commercial

Did each cooler have a corresponding COC? (Yes) No

Chain of Custody Seal Condition: INTACT | BROKEN | (ABSENT)

COC Seal Location(s):_____

Section 5

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
	DATE	TIME	RECEIVED BY

Laboratory Use Only

Cooler ID	Temperature (°C)	Therm. ID
1.	4.8	D53
2.		
3.		

If more than three coolers are received, or for documentation of non-compliant coolers, use form FS-0029.

Note: If temp. is outside 0-6 °and samples were not taken <8 hours ago OR are waste samples, Client or PM should initial here or attach an email change order to proceed with analysis. If ice is present, note on form F102B.

Intials:_____

http://www.sgs.com/terms-and-conditions

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1243825

SAMPLE RECEIPT FORM

Project Manager Completion				
Was all necessary information recorded on the COC upon receipt? (temperature, COC seals, etc.?)	Yes	No	N/A	
Was temperature between 0-6° C?	Yes	No	N/A	If "No", are the samples either exempt* or sampled <8 hours prior to receipt?
Were all analyses received within holding time*?	Yes	No	N/A	
Was a method specified for each analysis, where applicable? If no, please note correct methods.	Yes	No	N/A	
Are compound lists specified, where applicable? For project specific or special compound lists please note correct analysis code.	Yes	No	N/A	
If rush was requested by the client, was the requested TAT approved?	Yes	No	N/A	If "NO", what is the approved TAT?
If SEDD Deliverables are required, were Location ID's and an NPDL Number provided?	Yes	No	N/A	*If "NO", contact client for information.*
Sample Login Completion				
Do ID's on sample containers match COC?	Yes	No	N/A	
If provided on containers, do dates/times collected match COC?	Yes	No	N/A	Note: If times differ <1 hr., record details below and login per COC.
Were all sample containers received in good condition?	Yes	No	N/A	*
Were proper containers (type/mass/volume/preservative) received for all samples? **See form F-083 "Sample Guide"*	Yes	No	N/A	*Note: If 200.8/6020 Total Metals are received unpreserved, preserve and note HNO3 lot here: If 200.8/6020 Dissolved Metals are received unpreserved, log in for LABFILTER and do not preserve. For all non-metals methods, inform Project Manager.*
Were Trip Blanks (VOC, GRO, Low-Level Hg, etc.) received with samples, where applicable*?	Yes	No	N/A	
Were all VOA vials free of headspace >6mm?	Yes	No	N/A	
Were all soil VOA samples received field extracted with Methanol?	Yes	No	N/A	
Did all soil VOA samples have an accompanying unpreserved container for % solids?	Yes	No	N/A	
If special handling is required, were containers labelled appropriately? e.g. MI/ISM, foreign soils, lab filter, Ref Lab, limited volume	Yes	No	N/A	Limited volume
For Rush/Short Holding time, was the lab notified?	Yes	No	N/A	
For any question answered "NO", was the Project Manager notified?	Yes	No	N/A	PM Initials:
Was Peer Review of sample numbering/labelling completed?	Yes	No	N/A	Reviewer Initials:

Additional Notes/Clarification where Applicable, including resolution of "No" answers when a change order is not attached:

* Dup 003 lid broken & empty
MW20 one one GRO vile came in broken
MW16 VOA viles miss labeled viles say MW19-071924 ~~empty~~

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1243825001-A	HCL to pH < 2	OK	1243825011-B	HCL to pH < 2	OK
1243825001-B	HCL to pH < 2	OK	1243825011-C	HCL to pH < 2	OK
1243825001-C	HCL to pH < 2	OK	1243825011-D	HCL to pH < 2	OK
1243825002-A	HCL to pH < 2	OK	1243825011-E	HCL to pH < 2	OK
1243825002-B	HCL to pH < 2	OK	1243825012-A	HCL to pH < 2	OK
1243825002-C	HCL to pH < 2	OK	1243825012-B	HCL to pH < 2	OK
1243825002-D	HCL to pH < 2	OK	1243825012-C	HCL to pH < 2	OK
1243825002-E	HCL to pH < 2	OK	1243825012-D	HCL to pH < 2	OK
1243825003-A	HCL to pH < 2	OK	1243825012-E	HCL to pH < 2	OK
1243825003-B	HCL to pH < 2	OK	1243825013-A	HCL to pH < 2	OK
1243825003-C	HCL to pH < 2	OK	1243825013-B	HCL to pH < 2	OK
1243825003-D	HCL to pH < 2	OK	1243825013-C	HCL to pH < 2	OK
1243825003-E	HCL to pH < 2	OK	1243825013-D	HCL to pH < 2	OK
1243825004-A	HCL to pH < 2	OK	1243825013-E	HCL to pH < 2	OK
1243825004-B	HCL to pH < 2	OK	1243825014-A	HCL to pH < 2	OK
1243825004-C	HCL to pH < 2	OK	1243825014-B	HCL to pH < 2	OK
1243825004-D	HCL to pH < 2	OK	1243825014-C	HCL to pH < 2	OK
1243825004-E	HCL to pH < 2	OK	1243825014-D	HCL to pH < 2	OK
1243825005-A	HCL to pH < 2	OK	1243825014-E	HCL to pH < 2	OK
1243825005-B	HCL to pH < 2	OK	1243825015-A	HCL to pH < 2	OK
1243825005-C	HCL to pH < 2	OK	1243825015-B	HCL to pH < 2	OK
1243825005-D	HCL to pH < 2	OK	1243825015-C	HCL to pH < 2	OK
1243825005-E	HCL to pH < 2	OK	1243825015-D	HCL to pH < 2	OK
1243825006-A	HCL to pH < 2	OK	1243825015-E	HCL to pH < 2	OK
1243825006-B	HCL to pH < 2	OK	1243825016-A	HCL to pH < 2	OK
1243825006-C	HCL to pH < 2	OK	1243825016-B	HCL to pH < 2	OK
1243825006-D	HCL to pH < 2	OK	1243825016-C	HCL to pH < 2	OK
1243825006-E	HCL to pH < 2	OK	1243825016-D	HCL to pH < 2	OK
1243825007-A	HCL to pH < 2	OK	1243825016-E	HCL to pH < 2	OK
1243825007-B	HCL to pH < 2	OK	1243825017-A	HCL to pH < 2	OK
1243825007-C	HCL to pH < 2	OK	1243825017-B	HCL to pH < 2	OK
1243825007-D	HCL to pH < 2	OK	1243825017-C	HCL to pH < 2	OK
1243825007-E	HCL to pH < 2	OK	1243825018-A	HCL to pH < 2	OK
1243825008-A	HCL to pH < 2	OK	1243825018-B	HCL to pH < 2	OK
1243825008-B	HCL to pH < 2	OK	1243825018-C	HCL to pH < 2	OK
1243825008-C	HCL to pH < 2	OK	1243825018-D	HCL to pH < 2	OK
1243825008-D	HCL to pH < 2	OK	1243825018-E	HCL to pH < 2	OK
1243825008-E	HCL to pH < 2	OK	1243825018-F	HCL to pH < 2	OK
1243825009-A	HCL to pH < 2	OK	1243825018-G	HCL to pH < 2	OK
1243825009-B	HCL to pH < 2	OK	1243825018-H	HCL to pH < 2	OK
1243825009-C	HCL to pH < 2	DM	1243825018-I	No Preservative Required	OK
1243825009-D	HCL to pH < 2	OK	1243825018-J	No Preservative Required	OK
1243825009-E	HCL to pH < 2	OK	1243825018-K	H2SO4 to pH < 2	OK
1243825010-A	HCL to pH < 2	OK	1243825018-L	No Preservative Required	OK
1243825010-B	HCL to pH < 2	OK	1243825019-A	HCL to pH < 2	OK
1243825010-C	HCL to pH < 2	OK	1243825019-B	HCL to pH < 2	OK
1243825010-D	HCL to pH < 2	OK	1243825019-C	HCL to pH < 2	OK
1243825010-E	HCL to pH < 2	OK	1243825019-D	HCL to pH < 2	OK
1243825011-A	HCL to pH < 2	OK	1243825019-E	HCL to pH < 2	OK

Container Id	Preservative	Container Condition
1243825019-F	HCL to pH < 2	OK
1243825019-G	HCL to pH < 2	OK
1243825019-H	HCL to pH < 2	OK
1243825019-I	No Preservative Required	OK
1243825019-J	No Preservative Required	OK
1243825019-K	H2SO4 to pH < 2	OK
1243825019-L	No Preservative Required	OK
1243825020-A	HCL to pH < 2	OK
1243825020-B	HCL to pH < 2	OK
1243825020-C	HCL to pH < 2	OK
1243825020-D	HCL to pH < 2	OK
1243825020-E	HCL to pH < 2	OK
1243825020-F	HCL to pH < 2	OK
1243825020-G	HCL to pH < 2	OK
1243825020-H	HCL to pH < 2	OK
1243825020-I	No Preservative Required	OK
1243825020-J	No Preservative Required	OK
1243825020-K	H2SO4 to pH < 2	OK
1243825020-L	No Preservative Required	OK
1243825021-A	HCL to pH < 2	OK
1243825021-B	HCL to pH < 2	OK
1243825021-C	HCL to pH < 2	OK
1243825021-D	HCL to pH < 2	OK
1243825021-E	HCL to pH < 2	OK
1243825021-F	HCL to pH < 2	OK
1243825021-G	HCL to pH < 2	OK
1243825021-H	HCL to pH < 2	OK
1243825021-I	No Preservative Required	OK
1243825021-J	No Preservative Required	OK
1243825021-K	H2SO4 to pH < 2	OK
1243825021-L	No Preservative Required	OK
1243825022-A	HCL to pH < 2	OK
1243825022-B	HCL to pH < 2	OK
1243825022-C	HCL to pH < 2	OK
1243825022-D	HCL to pH < 2	OK
1243825022-E	HCL to pH < 2	OK
1243825023-A	HCL to pH < 2	OK
1243825023-B	HCL to pH < 2	OK
1243825023-C	HCL to pH < 2	OK
1243825023-D	HCL to pH < 2	OK
1243825023-E	HCL to pH < 2	OK
1243825023-F	HCL to pH < 2	OK
1243825023-G	HCL to pH < 2	OK
1243825023-H	HCL to pH < 2	OK
1243825023-I	No Preservative Required	OK
1243825023-J	No Preservative Required	OK
1243825023-K	H2SO4 to pH < 2	OK
1243825023-L	No Preservative Required	OK
1243825024-A	HCL to pH < 2	OK
1243825024-B	HCL to pH < 2	OK
1243825024-C	HCL to pH < 2	OK
1243825024-D	HCL to pH < 2	OK
1243825024-E	HCL to pH < 2	OK
1243825024-F	HCL to pH < 2	OK
1243825024-G	HCL to pH < 2	OK
1243825024-H	HCL to pH < 2	OK
1243825024-I	No Preservative Required	OK
1243825024-J	No Preservative Required	OK
1243825024-K	H2SO4 to pH < 2	OK
1243825024-L	No Preservative Required	OK
1243825025-A	HCL to pH < 2	OK
1243825025-B	HCL to pH < 2	OK
1243825025-C	HCL to pH < 2	OK
1243825025-D	HCL to pH < 2	OK
1243825025-E	HCL to pH < 2	OK
1243825025-F	HCL to pH < 2	OK
1243825025-G	HCL to pH < 2	OK
1243825025-H	HCL to pH < 2	OK
1243825025-I	No Preservative Required	OK
1243825025-J	No Preservative Required	OK
1243825025-K	H2SO4 to pH < 2	OK
1243825025-L	No Preservative Required	OK
1243825026-A	HCL to pH < 2	OK
1243825026-B	HCL to pH < 2	OK
1243825026-C	HCL to pH < 2	OK
1243825026-D	HCL to pH < 2	OK
1243825026-E	HCL to pH < 2	OK
1243825026-F	HCL to pH < 2	OK
1243825026-G	HCL to pH < 2	OK
1243825026-H	HCL to pH < 2	DM
1243825026-I	No Preservative Required	OK
1243825026-J	No Preservative Required	OK
1243825026-K	H2SO4 to pH < 2	OK
1243825026-L	No Preservative Required	OK
1243825027-A	HCL to pH < 2	OK
1243825027-B	HCL to pH < 2	OK
1243825027-C	HCL to pH < 2	OK
1243825027-D	HCL to pH < 2	OK
1243825027-E	HCL to pH < 2	OK
1243825027-F	HCL to pH < 2	OK
1243825027-G	HCL to pH < 2	OK
1243825027-H	HCL to pH < 2	OK
1243825027-I	No Preservative Required	OK
1243825027-J	No Preservative Required	OK
1243825027-K	H2SO4 to pH < 2	OK
1243825027-L	No Preservative Required	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.

APPENDIX B
LABORATORY DATA REVIEW CHECKLISTS AND TABLE B1

2024 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.:**	1243825
Consulting Firm:	Farallon Consulting, L.L.C.	**Hazard ID No.:**	23487 and 25770	**Lab Report Date:**	8/23/2024

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 for project samples: AK101, AK102, AK103, EPA 8021B, EPA 8260D, EPA 8270E/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): 3.9° C, 1.3° C, and 4.8° 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: The lab documented that one of the containers received for sample DUP003 was damaged. The lab was able to conduct the requested analyses using the other containers provided for sample DUP003. The lab documented that one of the VOA vials provided for sample MW20-071724 was received broken. The lab was able to conduct the requested analyses using the other containers provided for sample MW20-071724. The VOA vials for sample MW16-071924 were mislabeled as “MW19-071924”. The lab recorded the correct sample names on the containers.

e. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: None of the sample receipt issues identified above affected data quality.

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: Sample DUP003 was re-analyzed by Method 8260D one day past the holding time for xylenes. The m,p-xylene, o-xylene, and total xylenes results for this sample are qualified J as shown in Table 1.

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: The Method 8260D xylene results for sample DUP003 are qualified J as shown in Table 1.

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 three method blanks at concentrations less than the LOQ. The chemical 2-methylnaphthalene was detected in one method blank at a concentration 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. Where the concentration

was near the LOQ in samples associated with these method blanks, the results were qualified J+ as shown in Table 1.

iii. If above LoQ or RL, what samples are affected?
Comments: No detections in the method blanks were above the LOQ.

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: The %R of DRO in one of the LCS/LCSD for AK102 was below the lower control limits. The samples affected include B1MW-071724, B2MW-071724, B3MW-071624, MW8-071624, and MW13-071724. DRO results are qualified as shown in Table 1. The %R of benzene exceeded the upper control limit in one of the LCSD samples for Method 8021B. Benzene was not detected in the one sample associated with this LCSD, and no qualification of data is needed. The %R of 1-methylnaphthalene, 2-methylnaphthalene, acenaphthene, anthracene, fluorene, naphthalene, and phenanthrene were below the lower control limits in one of the LCS samples analyzed for Method 8270E/SIM. Sample results were qualified or rejected for the following samples as

shown in Table 1: DUP003, EB381-072124, MW26-072024, MW29-072024, and MW30-072024.

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: The toluene and o-xylene RPDs for Method 8021B exceeded control limits in one LCS/LCSD sample. The detected toluene and o-xylene results for the following samples were qualified as shown in Table 1: DUP003 and MW30-072024. The RPDs of 1-methylnaphthalene, 2-methylnaphthalene, acenaphthene, anthracene, fluorene, naphthalene, and phenanthrene exceeded control limits in the same LCS/LCSD pair where the %R of these same chemicals in the LCS was below the lower control limit. The same samples were affected as listed in Section 6.b.iii above. In addition, the RPD for acenaphthylene exceeded the control limit in this same LCS/LCSD pair. The detected acenaphthylene result for sample MW26-072024 was qualified J as shown in Table 1.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: The affected samples are listed in Section 6.b.iii. and Section 6.b.iv. above and in Table 1.

vi. 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 list of samples, affected data, and qualification flags.

vii. Is the data quality or usability affected?
Yes ☒ No ☐ N/A ☐
Comments: Sample results are rejected or qualified as shown in Table 1.

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 8270E SIM.

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. Three MS/MSDs were performed for Method SM 4500NO3-F.

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 %R of total nitrate/nitrite in one of the three MS and MSDs performed for Method 4500NO3-F exceeded the upper control limit; 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 %R exceeded the upper control limit 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 Methods AK101, 8021B, and 8270E/SIM 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: Click or tap here to enter text.

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: 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 blanks.

f. Field Duplicate

i. Are one field duplicate submitted per matrix, analysis, and 10 project samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Was the duplicate submitted blind to lab?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

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) except as noted below. 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. The sulfate RPD for sample MW26-072024 and DUP003 exceeded the project objective. The sulfate results for samples MW26-072024 and DUP003 are qualified J as shown in Table 1. The RPDs for several polycyclic aromatic hydrocarbons (PAHs) analyzed by Method 8270E/SIM for samples MW26-072024 and DUP003 exceeded project objectives. These data were qualified J or UJ as shown in Table 1.

iv. Is the data quality or usability affected? (Explain)
Yes ☒ No ☐ N/A ☐
Comments: Table 1 summarizes the data that were qualified based on field duplicate RPDs being greater than project objectives.

g. Decontamination or Equipment Blanks

i. Were decontamination or equipment blanks collected?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Are all results less than LoQ or RL?
Yes ☐ No ☒ N/A ☐
Comments: Two PAHs, 1-methylnaphthalene and 2-methylnaphthalene, were detected in the equipment blank analyzed by Method 8270E/SIM at concentrations exceeding the LOQ.

iii. If above LoQ or RL, specify what samples are affected.
Comments: The equipment blank was collected the day after sampling activities had ended and the results are not applicable to any project samples.

iv. Are data quality or usability affected?

Yes ☐ No ☒ N/A ☐

Comments: The equipment blank was collected after sampling activities had ended and the results are not representative of decontamination during the event and between sampling locations.

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
MW8-071624	1243825	Water	AK101	Gasoline Range Organics (GRO)	J+	Surrogate recovery exceeds the upper control limit.
MW19-071824	1243825	Water	AK101	Gasoline Range Organics (GRO)	J+	Surrogate recovery exceeds the upper control limit.
DUP002	1243825	Water	AK101	Gasoline Range Organics (GRO)	J+	Surrogate recovery exceeds the upper control limit.
MW26-072024	1243825	Water	AK101	Gasoline Range Organics (GRO)	J+	Surrogate recovery exceeds the upper control limit.
MW29-072024	1243825	Water	AK101	Gasoline Range Organics (GRO)	J+	Surrogate recovery exceeds the upper control limit.
MW30-072024	1243825	Water	AK101	Gasoline Range Organics (GRO)	J+	Surrogate recovery exceeds the upper control limit.
B1MW-071724	1243825	Water	AK102	Diesel Range Organics (DRO)	J	Percent recovery of DRO in the LCS/LCSD below the lower control limit.
B2MW-071724	1243825	Water	AK102	Diesel Range Organics (DRO)	J	Percent recovery of DRO in the LCS/LCSD below the lower control limit.
B3MW-071624	1243825	Water	AK102	Diesel Range Organics (DRO)	J	Percent recovery of DRO in the LCS/LCSD below the lower control limit.
MW8-071624	1243825	Water	AK102	Diesel Range Organics (DRO)	J	Percent recovery of DRO in the LCS/LCSD below the lower control limit.
MW13-071724	1243825	Water	AK102	Diesel Range Organics (DRO)	J	Percent recovery of DRO in the LCS/LCSD below the lower control limit.
DUP001	1243825	Water	AK103	Residual Range Organics (RRO)	0.481 UJ	Method blank contamination; report result at LOQ and qualify as non-detect.
DUP003	1243825	Water	AK103	Residual Range Organics (RRO)	J+	Method blank contamination.
MW7-071824	1243825	Water	AK103	Residual Range Organics (RRO)	J+	Method blank contamination.
MW11R-071924	1243825	Water	AK103	Residual Range Organics (RRO)	0.481 UJ	Method blank contamination; report result at LOQ and qualify as non-detect.
MW16-071924	1243825	Water	AK103	Residual Range Organics (RRO)	J+	Method blank contamination.
MW19-071824	1243825	Water	AK103	Residual Range Organics (RRO)	J+	Method blank contamination.
MW27-071924	1243825	Water	AK103	Residual Range Organics (RRO)	J+	Method blank contamination.
MW30-072024	1243825	Water	AK103	Residual Range Organics (RRO)	J+	Method blank contamination.
DUP003	1243825	Water	8021B	o-Xylene	J	LCS/LCSD RPD exceeded the control limit.
MW30-072024	1243825	Water	AK103	Residual Range Organics (RRO)	J+	Method blank contamination.
DUP003	1243825	Water	8021B	o-Xylene	J	LCS/LCSD RPD exceeded the control limit.
MW30-072024	1243825	Water	8021B	Toluene	J	LCS/LCSD RPD exceeded the control limit.
B1MW-071724	1243825	Water	8021B	Benzene	J+	Surrogate recovery exceeds the upper control limit.
B1MW-071724	1243825	Water	8021B	Toluene	J+	Surrogate recovery exceeds the upper control limit.
B1MW-071724	1243825	Water	8021B	Ethylbenzene	J+	Surrogate recovery exceeds the upper control limit.
B1MW-071724	1243825	Water	8021B	m,p-Xylene	J+	Surrogate recovery exceeds the upper control limit.
B1MW-071724	1243825	Water	8021B	o-Xylene	J+	Surrogate recovery exceeds the upper control limit.
B1MW-071724	1243825	Water	8021B	Xylenes (Total)	J+	Surrogate recovery exceeds the upper control limit.
MW23-071824	1243825	Water	8021B	Benzene	J+	Surrogate recovery exceeds the upper control limit.
MW23-071824	1243825	Water	8021B	Ethylbenzene	J+	Surrogate recovery exceeds the upper control limit.
MW23-071824	1243825	Water	8021B	m,p-Xylene	J+	Surrogate recovery exceeds the upper control limit.
MW23-071824	1243825	Water	8021B	o-Xylene	J+	Surrogate recovery exceeds the upper control limit.
MW23-071824	1243825	Water	8021B	Xylenes (Total)	J+	Surrogate recovery exceeds the upper control limit.
MW24-071824	1243825	Water	8021B	Benzene	J+	Surrogate recovery exceeds the upper control limit.
MW24-071824	1243825	Water	8021B	Toluene	J+	Surrogate recovery exceeds the upper control limit.
MW24-071824	1243825	Water	8021B	Ethylbenzene	J+	Surrogate recovery exceeds the upper control limit.
MW24-071824	1243825	Water	8021B	m,p-Xylene	J+	Surrogate recovery exceeds the upper control limit.
MW24-071824	1243825	Water	8021B	Xylenes (Total)	J+	Surrogate recovery exceeds the upper control limit.
MW26-072024	1243825	Water	8021B	Benzene	J+	Surrogate recovery exceeds the upper control limit.
MW26-072024	1243825	Water	8021B	Ethylbenzene	J+	Surrogate recovery exceeds the upper control limit.
MW26-072024	1243825	Water	8021B	m,p-Xylene	J+	Surrogate recovery exceeds the upper control limit.
MW26-072024	1243825	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
MW29-072024	1243825	Water	8021B	Benzene	J+	Surrogate recovery exceeds the upper control limit.
MW29-072024	1243825	Water	8021B	Toluene	J+	Surrogate recovery exceeds the upper control limit.
MW29-072024	1243825	Water	8021B	Ethylbenzene	J+	Surrogate recovery exceeds the upper control limit.
MW29-072024	1243825	Water	8021B	m,p-Xylene	J+	Surrogate recovery exceeds the upper control limit.
MW29-072024	1243825	Water	8021B	o-Xylene	J+	Surrogate recovery exceeds the upper control limit.
MW29-072024	1243825	Water	8021B	Xylenes (Total)	J+	Surrogate recovery exceeds the upper control limit.
MW30-072024	1243825	Water	8021B	Benzene	J+	Surrogate recovery exceeds the upper control limit.
MW30-072024	1243825	Water	8021B	Toluene	J+	Surrogate recovery exceeds the upper control limit.
MW30-072024	1243825	Water	8021B	Ethylbenzene	J+	Surrogate recovery exceeds the upper control limit.
MW30-072024	1243825	Water	8021B	m,p-Xylene	J+	Surrogate recovery exceeds the upper control limit.
MW30-072024	1243825	Water	8021B	o-Xylene	J+	Surrogate recovery exceeds the upper control limit.
MW30-072024	1243825	Water	8021B	Xylenes (Total)	J+	Surrogate recovery exceeds the upper control limit.
DUP003	1243825	Water	8021B	Benzene	J+	Surrogate recovery exceeds the upper control limit.
DUP003	1243825	Water	8021B	Ethylbenzene	J+	Surrogate recovery exceeds the upper control limit.
DUP003	1243825	Water	8021B	m,p-Xylene	J+	Surrogate recovery exceeds the upper control limit.
DUP003	1243825	Water	8021B	Xylenes (Total)	J+	Surrogate recovery exceeds the upper control limit.
DUP003	1243825	Water	8260D	m,p-Xylene	J	Sample analyzed one day outside of holding time.
DUP003	1243825	Water	8260D	o-Xylene	J	Sample analyzed one day outside of holding time.
DUP003	1243825	Water	8260D	Xylenes (Total)	J	Sample analyzed one day outside of holding time.
MW11R-071924	1243825	Water	8270E SIM	2-Methylnaphthalene	0.0481 U	Method blank contamination; report result at LOQ and qualify as non-detect.
MW16-071924	1243825	Water	8270E SIM	2-Methylnaphthalene	0.0481 U	Method blank contamination; report result at LOQ and qualify as non-detect.
DUP003	1243825	Water	8270E SIM	1-Methylnaphthalene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit.
EB381-072124	1243825	Water	8270E SIM	1-Methylnaphthalene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit.
MW26-072024	1243825	Water	8270E SIM	1-Methylnaphthalene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit.
MW29-072024	1243825	Water	8270E SIM	1-Methylnaphthalene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit. Surrogate recoveries below the lower control limits.
MW30-072024	1243825	Water	8270E SIM	1-Methylnaphthalene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit.
DUP003	1243825	Water	8270E SIM	2-Methylnaphthalene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit. Parent and field duplicate RPD exceeded project objective.
EB381-072124	1243825	Water	8270E SIM	2-Methylnaphthalene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit.
MW26-072024	1243825	Water	8270E SIM	2-Methylnaphthalene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit. Parent and field duplicate RPD exceeded project objective.
MW29-072024	1243825	Water	8270E SIM	2-Methylnaphthalene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit. Surrogate recoveries below the lower control limits.
MW30-072024	1243825	Water	8270E SIM	2-Methylnaphthalene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit.
DUP003	1243825	Water	8270E SIM	Acenaphthene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit.
EB381-072124	1243825	Water	8270E SIM	Acenaphthene	R	LCS percent recovery below the lower control limit and analyte was not detected in the sample.
MW26-072024	1243825	Water	8270E SIM	Acenaphthene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit.
MW29-072024	1243825	Water	8270E SIM	Acenaphthene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit. Surrogate recoveries below the lower control limits.
MW30-072024	1243825	Water	8270E SIM	Acenaphthene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit.
DUP003	1243825	Water	8270E SIM	Anthracene	R	LCS percent recovery below the lower control limit and analyte was not detected in the sample. Parent and field duplicate RPD exceeded project objective.

Table B1
Summary of Qualified Data
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Sample Identification	SDG	Matrix	Method	Analyte	Qualifier	Reason
EB381-072124	1243825	Water	8270E SIM	Anthracene	R	LCS percent recovery below the lower control limit and analyte was not detected in the sample.
MW26-072024	1243825	Water	8270E SIM	Anthracene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit. Parent and field duplicate RPD exceeded project objective.
MW29-072024	1243825	Water	8270E SIM	Anthracene	R	LCS percent recovery below the lower control limit and analyte was not detected in the sample. Surrogate recoveries below the lower control limits.
MW30-072024	1243825	Water	8270E SIM	Anthracene	R	LCS percent recovery below the lower control limit and analyte was not detected in the sample.
DUP003	1243825	Water	8270E SIM	Fluorene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit.
EB381-072124	1243825	Water	8270E SIM	Fluorene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit.
MW26-072024	1243825	Water	8270E SIM	Fluorene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit.
MW29-072024	1243825	Water	8270E SIM	Fluorene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit. Surrogate recoveries below the lower control limits.
MW30-072024	1243825	Water	8270E SIM	Fluorene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit.
DUP003	1243825	Water	8270E SIM	Naphthalene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit.
EB381-072124	1243825	Water	8270E SIM	Naphthalene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit.
MW26-072024	1243825	Water	8270E SIM	Naphthalene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit.
MW29-072024	1243825	Water	8270E SIM	Naphthalene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit. Surrogate recoveries below the lower control limits.
MW30-072024	1243825	Water	8270E SIM	Naphthalene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit.
DUP003	1243825	Water	8270E SIM	Phenanthrene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit.
EB381-072124	1243825	Water	8270E SIM	Phenanthrene	R	LCS percent recovery below the lower control limit and analyte was not detected in the sample.
MW26-072024	1243825	Water	8270E SIM	Phenanthrene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit.
MW29-072024	1243825	Water	8270E SIM	Phenanthrene	R	LCS percent recovery below the lower control limit and analyte was not detected in the sample. Surrogate recoveries below the lower control limits.
MW30-072024	1243825	Water	8270E SIM	Phenanthrene	J-	LCS percent recovery below the lower control limit, and LCS/LCSD RPD exceeded control limit.
MW26-072024	1243825	Water	8270E SIM	Acenaphthylene	J	LCS/LCSD RPD exceeded control limit. Parent and field duplicate RPD exceeded project objective.
DUP003	1243825	Water	8270E SIM	Acenaphthylene	UJ	Parent and field duplicate RPD exceeded project objective.
MW26-072024	1243825	Water	8270E SIM	Benzo(g,h,i)Perylene	J	Parent and field duplicate RPD exceeded project objective.
DUP003	1243825	Water	8270E SIM	Benzo(g,h,i)Perylene	UJ	Parent and field duplicate RPD exceeded project objective.
MW26-072024	1243825	Water	8270E SIM	Benzo(k)Fluoranthene	J	Parent and field duplicate RPD exceeded project objective.
DUP003	1243825	Water	8270E SIM	Benzo(k)Fluoranthene	UJ	Parent and field duplicate RPD exceeded project objective.
MW26-072024	1243825	Water	8270E SIM	Dibenzo(a,h)Anthracene	J	Parent and field duplicate RPD exceeded project objective.
DUP003	1243825	Water	8270E SIM	Dibenzo(a,h)Anthracene	UJ	Parent and field duplicate RPD exceeded project objective.
MW26-072024	1243825	Water	8270E SIM	Indeno(1,2,3-cd)Pyrene	J	Parent and field duplicate RPD exceeded project objective.
DUP003	1243825	Water	8270E SIM	Indeno(1,2,3-cd)Pyrene	UJ	Parent and field duplicate RPD exceeded project objective.
MW26-072024	1243825	Water	8270E SIM	Pyrene	J	Parent and field duplicate RPD exceeded project objective.
DUP003	1243825	Water	8270E SIM	Pyrene	UJ	Parent and field duplicate RPD exceeded project objective.
MW29-072024	1243825	Water	8270E SIM	Acenaphthylene	UJ	Surrogate recoveries below the lower control limits.
MW29-072024	1243825	Water	8270E SIM	Benzo(a)Anthracene	UJ	Surrogate recoveries below the lower control limits.
MW29-072024	1243825	Water	8270E SIM	Benzo[a]pyrene	UJ	Surrogate recoveries below the lower control limits.
MW29-072024	1243825	Water	8270E SIM	Benzo[b]Fluoranthene	UJ	Surrogate recoveries below the lower control limits.
MW29-072024	1243825	Water	8270E SIM	Benzo[g,h,i]perylene	UJ	Surrogate recoveries below the lower control limits.
MW29-072024	1243825	Water	8270E SIM	Benzo[k]fluoranthene	UJ	Surrogate recoveries below the lower control limits.
MW29-072024	1243825	Water	8270E SIM	Chrysene	UJ	Surrogate recoveries below the lower control limits.

Table B1
Summary of Qualified Data
Delta Western Terminal
Dillingham, Alaska
Farallon PN: 1010-004

Sample Identification	SDG	Matrix	Method	Analyte	Qualifier	Reason
MW29-072024	1243825	Water	8270E SIM	Dibenzo[a,h]anthracene	UJ	Surrogate recoveries below the lower control limits.
MW29-072024	1243825	Water	8270E SIM	Fluoranthene	UJ	Surrogate recoveries below the lower control limits.
MW29-072024	1243825	Water	8270E SIM	Indeno[1,2,3-c,d] pyrene	UJ	Surrogate recoveries below the lower control limits.
MW29-072024	1243825	Water	8270E SIM	Pyrene	UJ	Surrogate recoveries below the lower control limits.
MW26-072024	1243825	Water	300.0	Sulfate	J	Parent and field duplicate RPD exceeded project objective.
DUP003	1243825	Water	300.0	Sulfate	J	Parent and field duplicate RPD exceeded project objective.

NOTES:
J+ = result is an estimate with a high bias
J- = result is an estimate with a low bias
J = result is an estimate
LOQ = limit of quantitation
ND = nondetect
R = result rejected due to serious deficiencies in meeting quality control criteria
RPD = relative percent difference
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 C
WASTEWATER DISPOSAL CERTIFICATE

2024 GROUNDWATER MONITORING REPORT
Delta Western Dillingham
Dillingham, Alaska

Farallon PN: 1010-004

BILL OF LADING

N° 35253

PRODUCT TRANSPORT MANIFEST

MARINE VACUUM SERVICE, INC.

24 HOUR EMERGENCY PHONE NUMBER (206) 762-0240

FAX NUMBER 206-763-8084

TRUCK NUMBER _____ DATE 10-8-24

TO
DESTINATION
NAME Marine Vacuum Service, Inc.
STREET 1516 South Graham Street
CITY/STATE Seattle, WA 98108

FROM
SHIPPER
NAME FORAGON - Delta Western
STREET 6110 W Marginal Way SW
CITY/STATE Seattle, WA

QUANTITY	PROPER SHIPPING NAME	UN (PLACARD) NUMBER
2 DRUMS	Purge Water Drums	
	SLUDGE	

RECEIVER [signature] DATE 10-8-24

SHIPPER [signature] DATE 10/8/24

NOTE:

Customer warrants that the waste petroleum products being transferred by the above collector do not contain any contaminates including without limitations, pesticides, chlorinated solvents at concentrations greater than 1000 PPM, any detectable levels of PCBs, or any other material classified as dangerous or hazardous waste by 40 CFR Part 261, Subpart C and D (implementing the Federal Resource Conservation and Recover Act), or by any equivalent state dangerous or hazardous substance classification programs. Should laboratory tests find this waste not in compliance with 40 CFR Part 261, customer (generator) agrees to pay for all disposal costs incurred.