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2021 ANNUAL HYDRAULIC CONTROL AND CONTAINMENT SYSTEM OPERATIONS REPORT

BNSF FORMER MAINTENANCE AND FUELING FACILITY SKYKOMISH, WASHINGTON CONSENT DECREE NO. 07-2-33672-9 SEA

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ACRONYMS AND ABBREVIATIONS

AECOM Environment

BNSF Railway Company

DRO total petroleum hydrocarbons as diesel-range organics

Ecology Washington State Department of Ecology

EPA U.S. Environmental Protection Agency

Farallon Farallon Consulting, L.L.C.

GAC granulated activated carbon

HCC Hydraulic Control and Containment

LNAPL light non-aqueous phase liquid

NWTPH-Dx the sum of diesel- and oil-range organics analyzed using Ecology

Method NWTPH-Dx

NPDES National Pollutant Discharge Elimination System

μg/l micrograms per liter

O&M operation and maintenance

ORO total petroleum hydrocarbons as oil-range organics

OWS oil-water separator

RL remediation level

TPH total petroleum hydrocarbons



EXECUTIVE SUMMARY

The 2021 Annual Hydraulic Control and Containment (HCC) System Operations Report describes the HCC system operation and the performance monitoring conducted during 2021 at the BNSF Railway Company (BNSF) Former Maintenance and Fueling Facility in Skykomish, Washington (herein referred to as the Site). The cleanup objective for the HCC system is to prevent light non-aqueous phase liquid (LNAPL) and groundwater with total petroleum hydrocarbon concentrations exceeding the Site-specific groundwater remediation level (RL) of 477 micrograms per liter (µg/l) from migrating from the BNSF railyard to the Skykomish River. Following completion of a 24-month passive operation pilot study, active operation of the HCC system was resumed in January 2021. Approximately 7.45 million gallons of groundwater was extracted and treated in 2021. No measurable LNAPL was recovered by the recovery well oil-skimmer storage tanks in 2021, as measurable LNAPL (greater than 0.01 foot thick) was not present.

The HCC system operated in conformance with National Pollutant Discharge Elimination System Permit No. WA0032123. The reported concentrations of lead, arsenic, and total petroleum hydrocarbons (quantified as NWTPH-Dx, defined herein as the sum of total petroleum hydrocarbons as diesel- and oil-range organics) in HCC water treatment system effluent samples were less than the respective discharge limits specified in National Pollutant Discharge Elimination System Permit No. WA0032123.

Liquid level gauging and groundwater sampling were performed to assess HCC system performance in March, June, September, and December 2021. North of the HCC system barrier wall, groundwater is inferred to generally flow toward the west and roughly parallel to the Skykomish River. South of the barrier wall, groundwater is inferred to generally flow toward the west-northwest. The inferred groundwater flow directions in 2021 were consistent with previous years following construction of the barrier wall. Based on groundwater elevations and previous HCC system pilot testing near the flow-through treatment gates in the barrier wall, groundwater is inferred to flow from south to north through three of the four gates. Previous pilot testing has shown that the Center Gate is blocked to groundwater flow due to biofouling.

LNAPL was observed in monitoring wells and piezometers up-gradient of and adjacent to the HCC system barrier wall, between the West Gate and Center Gate, which is consistent with previous years; measured LNAPL observations ranged from a light trace (i.e., less than 0.01 foot thick and thin coating of LNAPL and/or a sheen observed on the oil-water interface probe) to 1.89 feet thick. Over the lifecycle of the data record, LNAPL observations and thickness measurements in monitoring wells and piezometers up-gradient of and adjacent to the HCC system barrier wall have exhibited an overall decreasing or stable trend.

Reported concentrations of NWTPH-Dx in groundwater samples collected from monitoring wells immediately north of the HCC system barrier wall were less than the Site-specific groundwater RL of 477 μ g/l and absent of sheen, with the exception of the samples collected in March, September, and December 2021 from gate well GW-3, which is immediately north of the blocked,



biofouled Center Gate, and monitoring well 2A-W-41, which is proximate to and down-gradient of gate well GW-3. Results from gate well GW-3 and monitoring well 2A-W-41 were compared with silica gel/non-silica gel sample preparation methods and confirmed to be biased high due to biogenic and petroleum metabolite interference. Results of all samples analyzed following silica gel cleanup were less than the RL.



1.0 INTRODUCTION

The 2021 Annual Hydraulic Control and Containment (HCC) System Operations Report describes the HCC system operation and performance monitoring conducted during 2021 at the BNSF Railway Company (BNSF) Former Maintenance and Fueling Facility in Skykomish, Washington (herein referred to as the Site). The Site includes BNSF property and public and private properties within the Town of Skykomish in King County, Washington, and it encompasses an area of approximately 40 acres (Figure 1).

The HCC system was designed to meet the cleanup objective, as defined in the Cleanup Action Plan prepared by the Washington State Department of Ecology (Ecology), of preventing light nonaqueous-phase liquid (LNAPL) and groundwater with total petroleum hydrocarbon concentrations (quantified as the sum of diesel- and oil-range organics analyzed using Ecology Method NWTPH-Dx [NWTPH-Dx]) from exceeding the Site-specific remediation level (RL) of 477 micrograms per liter (µg/l) from migrating from the BNSF railyard to the Skykomish River (Ecology 2007). NWTPH-Dx is defined herein as the sum of total petroleum hydrocarbons as diesel-range organics (DRO) and as oil-range organics (ORO), based on analysis using Ecology Method NWTPH-Dx.

Site-wide groundwater monitoring and sampling events were conducted in March and September 2021 in accordance with the Long-Term Monitoring Plan (Farallon 2020). Quarterly HCC System groundwater monitoring was conducted in March, June, September, and December 2021 in accordance with the 2011 Operation and Maintenance Manual (AECOM 2011) and 2014 Addendum (Farallon 2014a).

1.1 BACKGROUND

The HCC system is part of an integrated and comprehensive cleanup action and is operated and maintained in accordance with the requirements of the Cleanup Action Plan (Ecology 2007). The HCC system design is documented in the Special Design Report (ENSR Corporation 2008b) and the 2008 Construction Plans and Specifications (ENSR Corporation 2008a). The HCC system was constructed as described in the 2008 As-Built Completion Report (AECOM 2009) and the 2009 As-Built Completion Report (AECOM 2010b).

A 24-month HCC system passive operation pilot study was completed in December 2020 in accordance with the 2018 Pilot Study Work Plan (Farallon 2018b) and emails from Ecology regarding extending the Pilot Study through 2020 (Ecology 2020a and 2020b). Active operation of the HCC system resumed on January 4, 2021 in accordance with an October 30, 2020 email from Ecology (Ecology 2020d).



1.2 REPORT ORGANIZATION

The remainder of this report is organized as follows:

- Section 2, HCC System Description and Performance Monitoring, provides a general description of the HCC system and a summary of the performance monitoring activities conducted during 2021, including the monitoring parameters, schedule, and results;
- **Section 3, Conclusions**, presents conclusions based on the HCC system operations and groundwater monitoring activities;
- Section 4, Proposed Passive Operations and Monitoring, describes HCC system operation, maintenance, and monitoring activities planned for 2022; and
- Section 5, References, provides a list of the documents used in preparing this report.



2.0 HCC SYSTEM DESCRIPTION AND PERFORMANCE MONITORING

This section provides a general description of the HCC system and a summary of the performance monitoring activities conducted during 2021, including the monitoring parameters, schedule, and results. HCC system performance monitoring is conducted to facilitate system performance, assess performance relative to the cleanup objective, and document compliance with the discharge limits specified in National Pollutant Discharge Elimination System (NPDES) Permit No. WA0032123 (NPDES Permit). The primary components of the HCC system are summarized in Section 2.1. The Passive Operation Pilot Study of the HCC System is summarized in Section 2.2. The HCC system performance monitoring activities and results are described in Sections 2.3 through 2.5.

2.1 HCC SYSTEM DESCRIPTION

A detailed description of the HCC system, and figures showing the HCC system layout and process and instrumentation diagrams, are provided in the HCC Operation and Maintenance (O&M) Manual (AECOM 2011).

The HCC system comprises the following primary components:

- A 1,183-foot-long groundwater barrier wall and interception trench with four flow-through treatment gates, which contain oil-water separators (OWS) and a mixture of granular activated carbon (GAC) and pea gravel media, along the northern boundary of the BNSF railyard;
- Nine groundwater extraction/LNAPL recovery wells;
- Fourteen piezometers;
- Twenty sentry wells;
- Eleven HCC system monitoring wells;
- Two groundwater injection wells;
- A water treatment system, which includes aboveground and underground water conveyance piping, an OWS, a hydrogen peroxide disinfectant system, sand filters, GAC vessels, a pH adjustment system, and influent and effluent water storage tanks; and
- A computer-based programmable logic controller that collects system operational data and is used to monitor, control, and adjust system operating parameters.

The groundwater injection wells were used intermittently in 2009 and 2010 to inject treated groundwater into the BNSF railyard subsurface. In September 2010, the discharge of treated groundwater to the injection wells ceased, and the discharge at one of the injection wells was rerouted to an up-gradient OWS chamber in the East Gate of the barrier wall. The discharge of treated groundwater to the East Gate OWS chamber was discontinued at the end of 2012. Since the end of 2012, all groundwater treated by the HCC system has been discharged to the municipal



storm sewer system (per the NPDES Permit), which discharges to the Skykomish River (Farallon 2018a).

2.2 HCC SYSTEM OPERATIONS MONITORING

HCC system operations monitoring was conducted in accordance with the HCC O&M Manual (AECOM 2011) and 2014 Addendum (Farallon 2014). HCC system operations monitoring consists of monitoring the following operational parameters and conducting inspections and sampling at the frequencies noted:

- System run-time (daily).
- Groundwater extraction and treated water discharge flow (daily).
- Influent equalization tank water level (daily).
- Effluent equalization tank water level (daily).
- Backwash-water holding tank water level (daily).
- Visual inspection of the effluent equalization tank for sheen (bimonthly).
- Visual inspection of the recovery wells and recovery well oil-skimmer storage tanks for accumulation of LNAPL (bimonthly).
- Water treatment system influent monitoring, which included sampling of primary and secondary GAC vessel influent (bimonthly). (Note: Secondary GAC vessel influent samples were collected to assess petroleum hydrocarbon loading of primary GAC vessel and are not discussed further in this report.)
- Water treatment system effluent monitoring (bimonthly):
 - o Sampling of treatment system effluent and analysis by Ecology Method NWTPH-Dx; monitoring of treatment system effluent pH; and sampling of treatment system effluent and analysis for total lead and total arsenic by U.S. Environmental Protection Agency (EPA) Method 200.8.
- Groundwater elevations in piezometers and recovery wells (recorded daily by in-well pressure transducers and gauged by field personnel bimonthly).

2.3 HCC SYSTEM GROUNDWATER MONITORING

The performance of the HCC system is assessed by monitoring the following wells, piezometers, and barrier wall gate OWS chamber vaults (Figures 1 and 2):

- The 11 HCC system monitoring wells, which include:
 - o Gate wells GW-1 through GW-4, installed immediately north of the barrier wall gates;



- o End wells EW-1 and EW-2A, installed near the western and eastern ends of the barrier wall, respectively; and
- o Monitoring wells 5-W-43, 2A-W-40, 2A-W-41, 1B-W-23, and 2A-W-42, installed along Railroad Avenue on the northern (down-gradient) side of the barrier wall;
- The 20 sentry wells (well groups S1 through S4, containing four to six wells each), installed in the GAC and pea gravel chambers of the barrier wall treatment gates;
- The six piezometer pairs (piezometers PZ-2S/PZ-2N through PZ-7S/PZ-7N), installed along the barrier wall and the two piezometers (piezometers PZ-1 and PZ-8) installed at the western and eastern ends of the barrier wall;
- The nine groundwater extraction/LNAPL recovery wells (wells RW-01 through RW-09), installed on the southern (up-gradient) side of the barrier wall; and
- The OWS chamber vaults in each vault of each barrier wall gate (Figure 2).

The HCC system monitoring wells are gauged and sampled quarterly in March, June, September, and December. The sentry wells are sampled semiannually in March and September. The piezometers, recovery wells, and barrier wall gate OWS chambers are gauged quarterly in March, June, September, and December for the presence or absence of LNAPL or sheen and are not sampled.

2.4 RESULTS OF HCC SYSTEM OPERATIONS MONITORING

The following sections summarize the results of the 2021 HCC system operations monitoring.

2.4.1 System Run-Time

The HCC water treatment system operated for approximately 8,290 hours (345.4 days) in 2021, which equates to an annual operational efficiency of approximately 95 percent. System operations were interrupted for short periods due to power outages or to perform maintenance, change out GAC and/or sand filter media, optimize system parameters, or make repairs. The system was shut down for a total of approximately 470 hours (20 days).

2.4.2 Groundwater Extraction and Treated Water Discharge Flow

Approximately 7.45 million gallons of groundwater was extracted and treated in 2021. All HCC system groundwater extracted and treated in 2021 was pumped from recovery wells RW-02, RW-03, RW-04, RW-06, RW-07, and RW-08. HCC system discharge flow rate data are summarized in Table 1.

2.4.3 Tank Water Levels

Influent equalization tank, effluent equalization tank, and backwash-water holding tank water levels were maintained within normal operating ranges.



2.4.4 Visual Inspection of Effluent Equalization Tank for Sheen

Water treatment system effluent water was monitored for the presence of sheen by visually observing the water in the effluent equalization tank, either during Site visits or via a remote video camera (i.e., web cam). No sheen was observed on the water in the effluent equalization tank.

2.4.5 Visual Inspection of Recovery Wells and Recovery Well Oil-Skimmer Tanks for Accumulation of LNAPL

Recovery wells and recovery well oil-skimmer storage tanks were inspected weekly for accumulation of LNAPL. The recovery well oil-skimmer storage tanks were pumped out as required (see Section 2.4.8, Recovered Light Nonaqueous-Phase Liquid Volumes).

2.4.6 Water Treatment System Influent Monitoring

Water treatment system influent was sampled bimonthly at the inlet to the primary GAC vessel and analyzed for NWTPH-Dx. Reported influent NWTPH-Dx concentrations ranged from 166 to 4,050 μ g/l; the average reported influent NWTPH-Dx concentration was 755 μ g/l. Influent NWTPH-Dx data are summarized in Table 2; laboratory analytical reports are provided in Appendix A.

2.4.7 Water Treatment System Effluent Monitoring

Water treatment system effluent was sampled bimonthly at the outlet of the secondary GAC vessel. The effluent samples were analyzed for NWTPH-Dx; one effluent sample collected during each month also was analyzed for total lead and total arsenic. In addition, the pH of the treatment system effluent was monitored weekly using a digital pH meter. The results of the effluent monitoring are summarized below:

- **NWTPH-Dx:** Reported NWTPH-Dx concentrations in the weekly treatment system effluent samples were less than the NPDES Permit discharge limit of 208 μg/l. Effluent NWTPH-Dx data are summarized in Table 2; laboratory analytical reports are provided in Appendix A.
- **pH:** Measured effluent pH ranged from 7.30 to 8.50 standard units; the average measured effluent pH was 7.66. The NPDES Permit discharge limit for pH is 6.5 to 8.5. Effluent pH data are summarized in Table 3.
- **Lead and Arsenic:** Reported total lead and total arsenic concentrations in the treatment system effluent samples were less than the respective NPDES Permit discharge limits of 17.5 and 360 μg/l. Effluent lead and arsenic data are summarized in Table 4; laboratory analytical reports are provided in Appendix A.

2.4.8 Recovered Light Nonaqueous-Phase Liquid Volumes

The belt-type oil skimmers in recovery wells RW-04, RW-07, and RW-08 were operated with approximately 2-minute run-times four to six times per day. No measurable LNAPL was recovered



by the recovery well oil skimmers in 2021, and no measurable LNAPL (greater than 0.01 foot thick) was observed in the oil skimmer storage tanks.

2.4.9 Differential Groundwater Elevations Across Barrier Wall

Six piezometer pairs installed along the barrier wall (piezometer pairs PZ-2S/PZ-2N through PZ-7S/PZ-7N) and two single piezometers, one at each end of the barrier wall (piezometers PZ-1 and PZ-8) (Figure 1), are used to monitor groundwater elevations adjacent to the barrier wall and near the flow-through treatment gates. One piezometer of each piezometer pair is on the southern (up-gradient) side of the barrier wall (designated PZ-2S, PZ-3S, etc.), and the other piezometer is on the northern (down-gradient) side of the barrier wall (designated PZ-2N, PZ-3N, etc.). Pressure transducers are installed within the piezometers and record groundwater elevation daily.

Daily groundwater elevation differentials across the barrier wall at each piezometer pair location were calculated by subtracting the groundwater elevation measured in the northern piezometer from the groundwater elevation measured in the southern piezometer. Barrier wall groundwater elevation data for the 2021 reporting period, including calculated elevation differentials at piezometer pairs, are presented in Table 5.

The largest differential elevations between piezometer pairs occurred during winter and (generally between November and January) during periods of higher groundwater elevations, and smaller differential elevations between piezometer pairs occurred during summer months (August and September). The differential elevations recorded during periods of high groundwater indicate that groundwater mounding is occurring on the southern (up-gradient) side of the barrier wall, which is expected and consistent with historical data. The differential groundwater elevation data demonstrate that the barrier wall effectively directed groundwater flow through the East Gate, West Gate, and Far West Gate during 2021. Previous pilot testing has shown that the Center Gate is blocked to groundwater flow due to the presence of iron bacteria biofouling in the up-gradient portions of the GAC and pea gravel media in this gate (Farallon 2017).

2.4.10 Service Interruptions

HCC system operations were occasionally interrupted for short periods during 2021 due to utility power outages or to perform maintenance, change out GAC and/or sand filter media, optimize system parameters, or make repairs. One service interruption exceeded 48 hours.

On October 26, 2021, the HCC system shut down with approval from Ecology's Toxic Cleanup Program (Ecology 2021), pending investigation of a reported exceedance of the total petroleum hydrocarbons (TPH) discharge limit of 208 µg/l in the effluent sample collected on October 14, 2021, and a routine change-out of the GAC in the treatment system. The system was restarted on November 4, 2021, following change-out of the GAC in the treatment system.

The effluent sample was reanalyzed using the same extraction as the original analysis. TPH was detected at a concentration of 187 μ g/l for the reanalyzed effluent sample collected on October 14, 2021, which is less than the discharge limit of 208 μ g/l. Based on the result from the reanalysis



and subsequent weekly sampling performed in October 2021, no exceedance of the discharge limit for TPH occurred.

2.5 RESULTS OF HCC SYSTEM GROUNDWATER MONITORING

The results of Site-wide groundwater monitoring conducted in 2021 are presented in the 2021 Annual Long-Term Monitoring Report (Farallon 2021). The results of groundwater monitoring conducted in 2021 to assess HCC system performance are summarized below.

North of the HCC system barrier wall, groundwater flows toward the west and roughly parallel to the Skykomish River. South of the barrier wall, groundwater flows toward the west and northwest. The groundwater flow directions were determined in 2021 to be consistent with previous years after construction of the barrier wall. Based on groundwater elevations and previous HCC system pilot testing near the flow-through treatment gates in the barrier wall, groundwater flows from south to north through three of the four gates. Groundwater elevation contours and interpreted groundwater flow directions derived from the Site-wide groundwater monitoring data for March and September 2021 are shown on Figures 3 and 5. Groundwater elevation contours were not prepared for the June and December 2021 monitoring events, as a limited subset of monitoring wells are gauged for those events and do not provide an accurate representation of groundwater flow at the Site.

The groundwater monitoring results for the locations used to monitor HCC system performance are summarized below. Groundwater field parameter data are summarized in Table 6. Groundwater analytical results for DRO, ORO, and NWTPH-Dx (i.e., the sum of DRO and ORO) are summarized in Table 7. Groundwater elevation and LNAPL thickness data from the quarterly and semiannual monitoring events are summarized in Table 8. Figures 3 through 6 show reported groundwater NWTPH-Dx concentrations and measured LNAPL thicknesses at the monitoring locations used to assess HCC system performance, as described above in Section 2.3.

2.5.1 Sentry Wells

The 20 sentry wells (wells S1-AU, S2-BD, etc.) were sampled during the March and September 2021 semiannual groundwater monitoring events. Sentry well pair S1-BD and S1-BU were also sampled in April 2021 to investigate an anomalous reported detection of NWTPH-Dx in the downgradient sentry well S1-BD sample collected in March 2021.

NWTPH-Dx was not detected exceeding the laboratory method reporting limit in 18 of 20 wells sampled. The two sentry wells (S1-BD and S2-BU) with reported detections during 2021 are described below:

• NWTPH-Dx was detected at a concentration of 233 µg/l in the March 2021 groundwater sample collected from down-gradient sentry well S1-BD in the west vault of the West Gate (Table 7; Figure 3). NWTPH-Dx was not detected exceeding the laboratory method reporting limits in S1-BD when the well was re-sampled in April 2021. NWTPH-Dx was not detected exceeding reporting limits at the corresponding up-gradient well S1-BU



- during either the March or April 2021 sampling events. The reported detection of NWTPH-Dx in the March 2021 sample from S1-BD is attributed to a labeling error in the field.
- NWTPH-Dx was detected at a concentration of 306 µg/l in the September 2021 groundwater sample collected from up-gradient sentry well S2-BU in the east vault of the West Gate (Table 7; Figure 3). S2-BU is in the up-gradient GAC and pea gravel chamber within its vault. All up-gradient sentry wells are paired with a down-gradient sentry well located in the down-gradient GAC and pea gravel chamber in the same vault to evaluate the effectiveness of groundwater treatment. NWTPH-Dx was not detected exceeding laboratory method reporting limits at the corresponding down-gradient well S2-BD during the September 2021 sampling event.

2.5.2 Gate Wells

All four gate wells (GW-1 through GW-4) were gauged and sampled during the groundwater monitoring events in March, June, September, and December 2021. Reported NWTPH-Dx concentrations in groundwater samples collected from the gate wells were less than the RL, with the exception of the samples collected in March, September, and December 2021 from gate well GW-3, which had reported concentrations of 770 μ g/l, 640 μ g/l, and 1,020 μ g/l, respectively (Table 7; Figures, 3, 5, and 6). The groundwater samples from gate well GW-3 were also analyzed by a silica gel cleanup preparation process, with reported concentrations of 113 μ g/l, 402 μ g/l, and 351 μ g/l, respectively. LNAPL or sheen was not observed in any of the gate wells (Table 8; Figures 3 through 6).

Gate well GW-3 is immediately north and down-gradient of the Center Gate, where substantial biofouling by iron bacteria has been observed with some degree of seasonality. Between June 2014 and December 2018, NWTPH-Dx concentrations ranged between 63 and 1,020 µg/l. Historically (between April 2009 and June 2014), NWTPH-Dx concentrations fluctuated over a smaller range of 34 to 184 µg/l. Increased concentration ranges in gate well GW-3 since June 2014 are the result of interference from biogenic substances and petroleum metabolites, as evidenced by split sampling with and without silica gel cleanup. NWTPH-Dx concentrations in all the silica gel–prepared samples were significantly less than the NWTPH-Dx concentrations in the non-silica gel–prepared samples, as shown on the trend plot included as Appendix B. These data demonstrate that the NWTPH-Dx results for the non-silica gel–prepared samples are biased high due to biogenic and petroleum metabolite interferences originating from the biofouled gate.

2.5.3 End Wells

The two end wells (wells EW-1 and EW-2A) were gauged and sampled during the March, June, September, and December 2021 groundwater monitoring events. NWTPH-Dx was not detected at concentrations exceeding the laboratory method reporting limit in groundwater samples collected from the end wells, with the exception of EW-1 in the December 2021 sampling event (Table 7, Figures 3 through 6). NWTPH-Dx was detected at a concentration of 94 μ g/l in the sample collected from EW-1 in December 2021, which is less than the RL of 477 μ g/l. LNAPL and sheen were not observed in either of the end wells (Table 8).



2.5.4 Monitoring Wells 5-W-43, 2A-W-40, 2A-W-41, 1B-W-23, and 2A-W-42

Reported NWTPH-Dx concentrations in groundwater samples collected from these wells were less than the RL, with the exception of the samples collected in March, September, and December 2021 from monitoring well 2A-W-41, which had reported concentrations of 1,130 μ g/l, 780 μ g/l, and 810 μ g/l, respectively (Table 7; Figures, 3, 5, and 6). The groundwater samples from gate well GW-3 were also analyzed following a silica gel cleanup preparation process, with reported concentrations of 216 μ g/l, 143 μ g/l, and non-detect at the laboratory method reporting limit of 57 μ g/l, respectively. LNAPL or sheen was not observed in any of the gate wells (Table 8; Figures 3 through 6). LNAPL and sheen were not observed in any of these monitoring wells.

Between September 2013 and December 2018, reported NWTPH-Dx detections in monitoring well 2A-W-41 fluctuated over a range of 56 to 1,100 µg/l, with three values exceeding the RL. Historically (between December 2009 and September 2013), NWTPH-Dx results from monitoring well 2A-W-41 fluctuated over a smaller range of 26 to 175 µg/l. Monitoring well 2A-W-41 is west and down-gradient of gate well GW-3 and the Center Gate, and is also affected by biogenic substances and petroleum metabolites, similar to gate well GW-3. NWTPH-Dx concentrations in all the silica gel–prepared samples were significantly less than the NWTPH-Dx concentrations in the non-silica gel–prepared samples, as shown on the trend plot included as Appendix B. These data demonstrate that the NWTPH-Dx results for the non-silica gel–prepared samples are biased high due to biogenic and petroleum metabolite interferences originating from the biofouled gate.

2.5.5 Piezometers

The 14 piezometers were gauged for the presence or absence of LNAPL and sheen during the March, June, September, and December 2021 groundwater monitoring events. Measurable LNAPL was observed in piezometers PZ-5S and PZ-6S on the southern (up-gradient) side of the barrier wall (Table 8):

- **PZ-5S.** Measurable LNAPL was recorded in March (1.89 feet), June (0.50 foot), September (0.55 foot), and December 2021 (0.18 foot). The measured LNAPL thicknesses in 2021 were an overall slight decrease in LNAPL thickness compared with observations from 2020. LNAPL was not observed in the down-gradient piezometer (PZ-5N) paired with PZ-5S.
- **PZ-6S.** A heavy trace of LNAPL was observed in March 2021, and measurable LNAPL was recorded in June (0.05 foot), September (0.20 foot), and December 2021 (0.08 foot). LNAPL observations at piezometer PZ-6S are consistent with observations from 2020. LNAPL was not observed in the down-gradient piezometer (PZ-6N) paired with PZ-6S.

LNAPL thickness trend plots for HCC system monitoring locations that historically have contained measurable LNAPL are included in Appendix C.

2.5.6 Recovery Wells

The nine recovery wells were gauged for the presence or absence of LNAPL and sheen during the March, June, September, and December 2021 groundwater monitoring events. There was no



measurable LNAPL in recovery wells RW-01 through RW-09, and LNAPL was observed only as a light to heavy trace during 2021 (Table 8). Measurable LNAPL was observed in recovery wells RW-07 and RW-08 (Table 8):

- **RW-07.** A light trace of LNAPL was observed in March and June 2021, and measurable LNAPL was recorded in September (0.08 foot) and December 2021 (0.25 foot). LNAPL thicknesses at RW-07 in 2021 are increased compared with observations from 2020, but are generally consistent with observations from 2016, 2017, and 2018.
- **RW-08.** A light to heavy trace of LNAPL was observed in March, June, and December 2021, and measurable LNAPL was recorded in September 2021 (0.14 foot). LNAPL observations at RW-08 are generally consistent with observations from 2020.

There was no measurable LNAPL in recovery wells RW-01 through RW-06, and RW-09, and LNAPL was observed only as a light to heavy trace at those locations during 2021 (Table 8).

LNAPL thickness trend plots for HCC system monitoring locations that historically have contained measurable LNAPL are included in Appendix C.

2.5.7 Barrier Wall Gate Oil-Water Separator Chambers

Each flow-through treatment gate in the HCC system barrier wall consists of two or three concrete vaults. Each gate contains an OWS chamber on the up-gradient side of the gate (as shown on Figure 7, which shows typical construction of a treatment gate). During the March, June, September, and December 2021 monitoring events, the gate OWS vaults were monitored for LNAPL and sheen (Table 8).

A light trace of LNAPL was observed in June and December 2021 in the south (up-gradient) chamber of the east vault OWS of the West Gate (location WG-EV-South Chamber). No measurable thickness of LNAPL requiring removal was present in any of the gate vault OWS chambers in 2021.



3.0 CONCLUSIONS AND RECOMMENDATIONS

The groundwater monitoring results from 2021 and previous years indicate that the HCC system, particularly the HCC system barrier wall, continues to be effective in meeting the cleanup objective. Therefore, passive operation of the HCC system would be effective in meeting the cleanup objective for the Site.

In 2021, measured LNAPL thicknesses decreased in piezometer PZ-5S, were generally stable in piezometer PZ-6S, increased in recovery well RW-07, and were generally stable in recovery well RW-08 compared with observations from 2020. Over the lifecycle of the data record, measured LNAPL thicknesses in these piezometers and wells have exhibited an overall decreasing or stable trend, with minor variability (Appendix C). Piezometers and recovery wells will continue to be monitored for LNAPL in 2022.

Groundwater samples collected from gate well GW-3 and monitoring well 2A-W-41 will continue to be analyzed both with and without the silica gel cleanup preparation process to gain additional perspective on biogenic and petroleum metabolite interferences affecting the analytical results from these wells. Gate well GW-3 and monitoring well 2A-W-41 will continue to be monitored in 2022.

Based on the groundwater monitoring results from 2021 and the results of the Passive Operation Pilot Study completed between January 2019 and December 2020 (Farallon 2018b), it is recommended that the HCC system be operated in a passive mode with groundwater monitoring conducted in accordance with the Long-Term Monitoring Plan. The Long-Term Monitoring Plan specifies that locations down-gradient of the HCC system gates and barrier wall (gate wells GW-1 through GW-4 and monitoring well 5-W-43) be gauged and sampled for NWTPH-Dx semiannually for 2 years and annually thereafter. No changes to the Long-Term Monitoring Plan would be required to implement passive operation of the HCC system. Changes to the O&M Manual would be necessary to address passive operations, and O&M tasks specific to passive operation.

BNSF and Ecology are reviewing Consent Decree and Cleanup Action Plan amendments to include operation of the system as needed, such that free product and groundwater exceeding the $477~\mu g/L$ NWTPH-Dx remediation level does not leave the BNSF railyard facility property boundary or exit any functional gates of the containment system. Alterations of the system will require (1) approval of passive operation from Ecology and (2) a demonstration illustrating the proposed operation will meet the remediation level as described above. The demonstration must be supported by analytical laboratory data. In addition, as part of ongoing HCC system operations, testing and changeout of GAC media in the West Gate will be performed in 2022 as described below.



3.1 PROPOSED GAC MEDIA TESTING AND CHANGEOUT

The GAC media in the West Gate will be sampled in the first quarter of 2022 and replaced if necessary. If the results of the GAC media analysis indicate a remaining lifespan greater than 1 year, replacement may be postponed, and the GAC media will be sampled and analyzed ahead of the newly calculated life expectancy date.

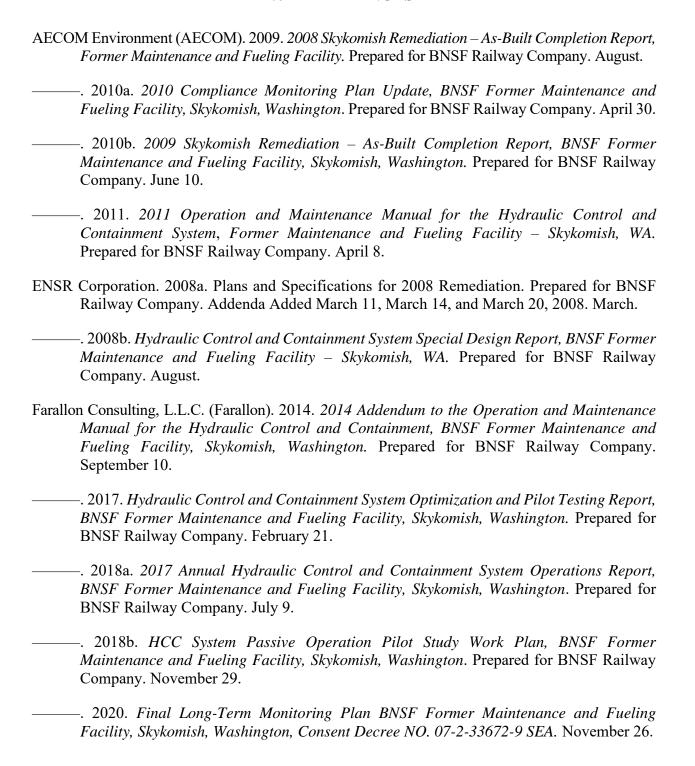
Following replacement of the GAC media, the media will be sampled again in 5 years. Subsequent sampling and analysis will be scheduled according to the estimated remaining capacity determined from the initial sampling results.

Additionally, the GAC media may be sampled if an exceedance of the Site-specific groundwater RL from down-gradient monitoring well 5-W-43 or gate wells GW-1 through GW-4 occurs, and investigation into the root cause indicates that the exceedance may be due to breakthrough.

GAC media replacement (when warranted) will be scheduled for summer or early fall during low-water conditions to minimize the volume of groundwater that would need to be managed. Active pumping and groundwater treatment will be used prior to and during replacement of the GAC media. Passive operation will resume upon replacement of GAC media.



4.0 REFERENCES





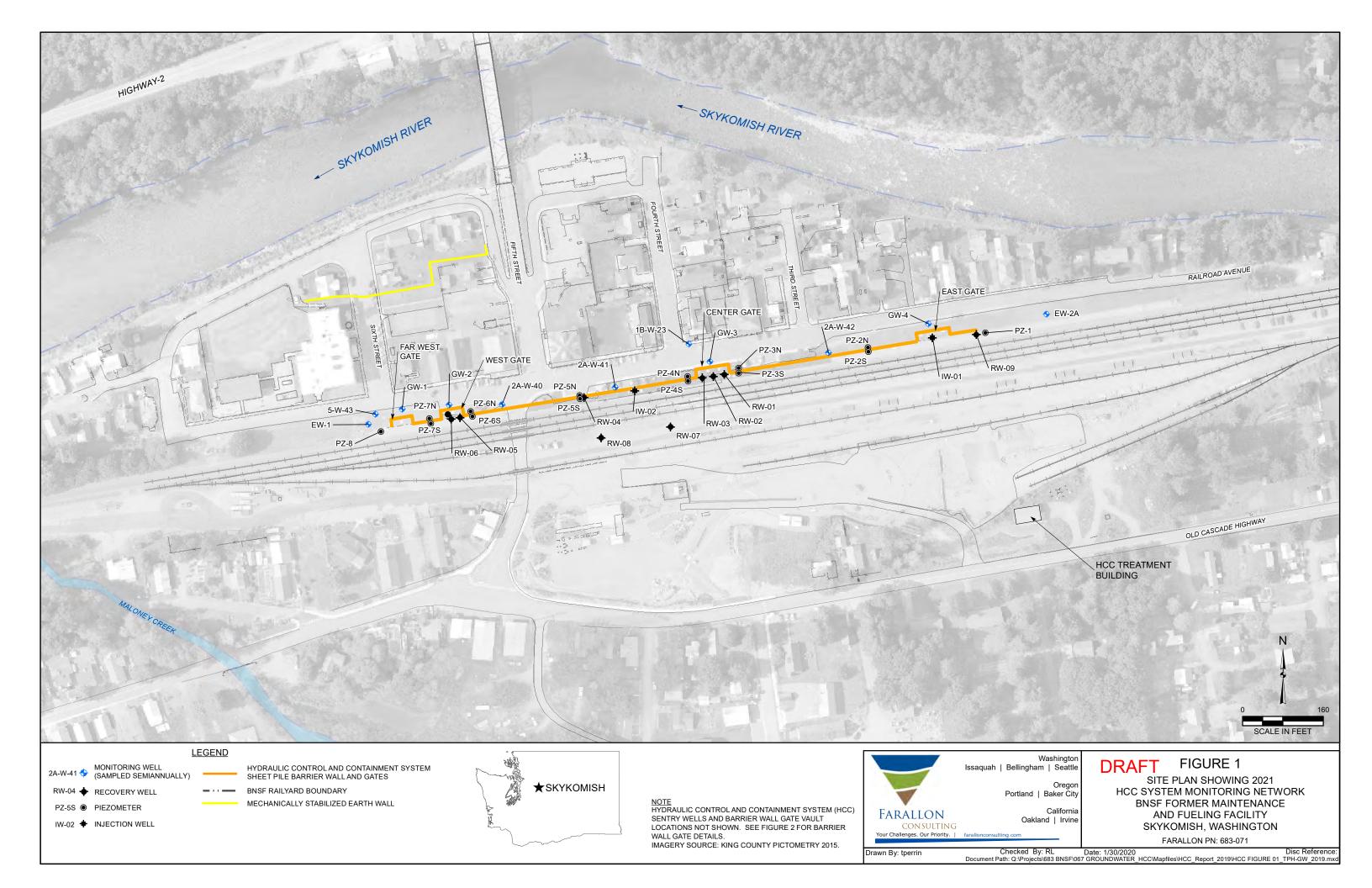
-. 2021a. Draft 2020 Site-Wide Groundwater Monitoring Report BNSF Former Maintenance and Fueling Facility, Skykomish, Washington, Consent Decree NO. 07-2-33672-9 SEA. March 30. U.S. Environmental Protection Agency. Greenhouse Gas Equivalencies Calculator Widget. September 6, 2018. https://developer.epa.gov/greenhouse-gas-equivalencies-calculator- widget/>. (January 28, 2021.) Washington State Department of Ecology (Ecology). 2007. Cleanup Action Plan for BNSF Former Maintenance and Fueling Facility, Skykomish, Washington. Exhibit B of Consent Decree No. 07-2-33672-9 SEA between the Washington State Department of Ecology and BNSF Railway Company. October. -. 2020a. Email Regarding Skykomish – HCC Operations. From Ronald Timm. To Shane DeGross, BNSF Railway Company; and Amy Essig Desai and Peter Kingston, Farallon. January 24. -. 2020b. Email Regarding Skykomish – HCC Operations. From Ronald Timm. To Shane DeGross, BNSF Railway Company. June 25. -. 2020c. Email Regarding RE: Skykomish - Revised Draft Long-Term Monitoring Plan. From Tanner Bushnell. To Shane DeGross, BNSF Railway Company. September 15. -. 2020d. Email Regarding Skykomish – Biosparge Pilot Study and Engineering Design Work Plan. From Tanner Bushnell. To Shane DeGross, BNSF Railway Company. October 30.

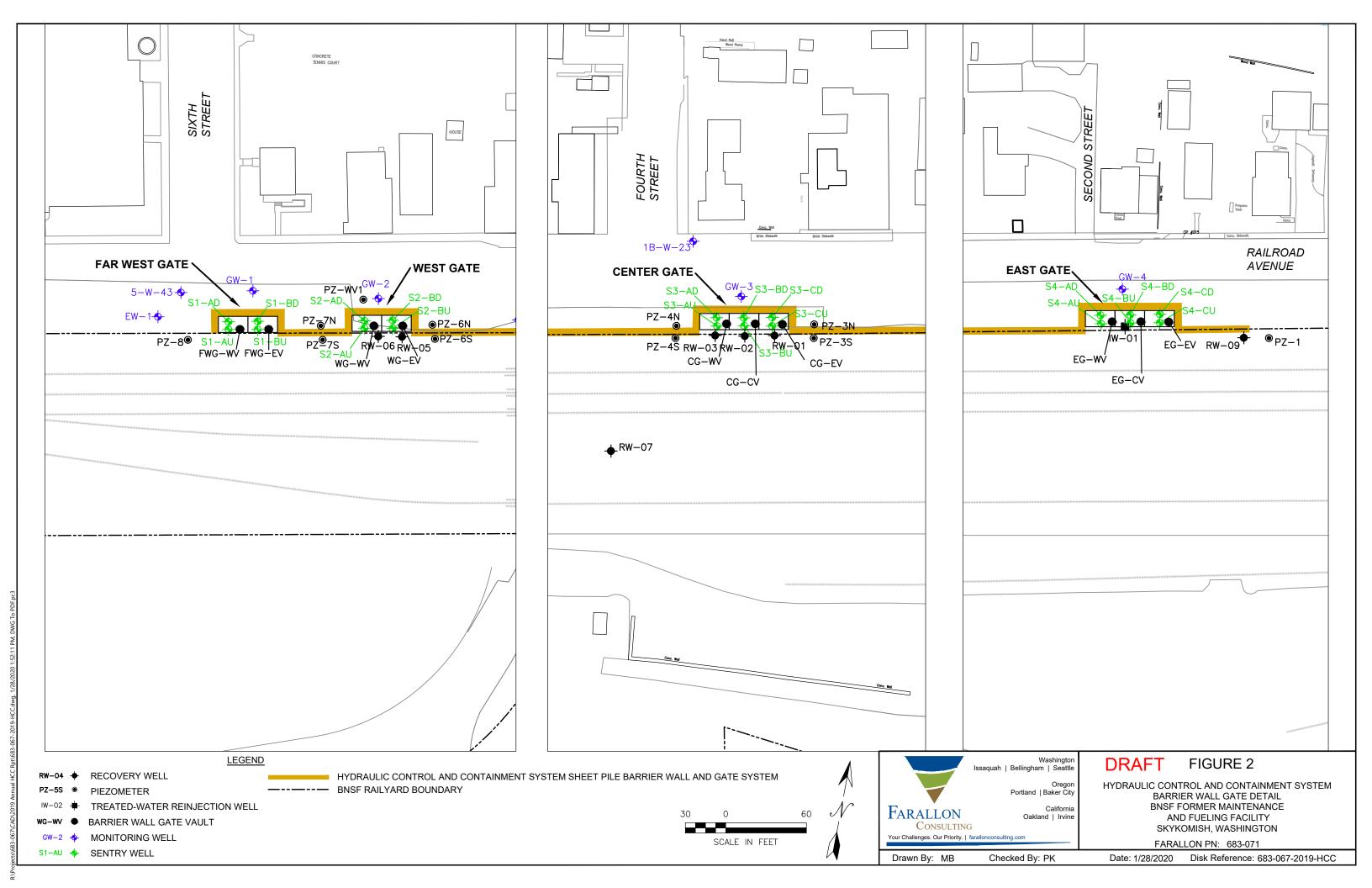
-. 2021. Email Regarding Skykomish System Shutdown Request. From Tanner Bushnell.

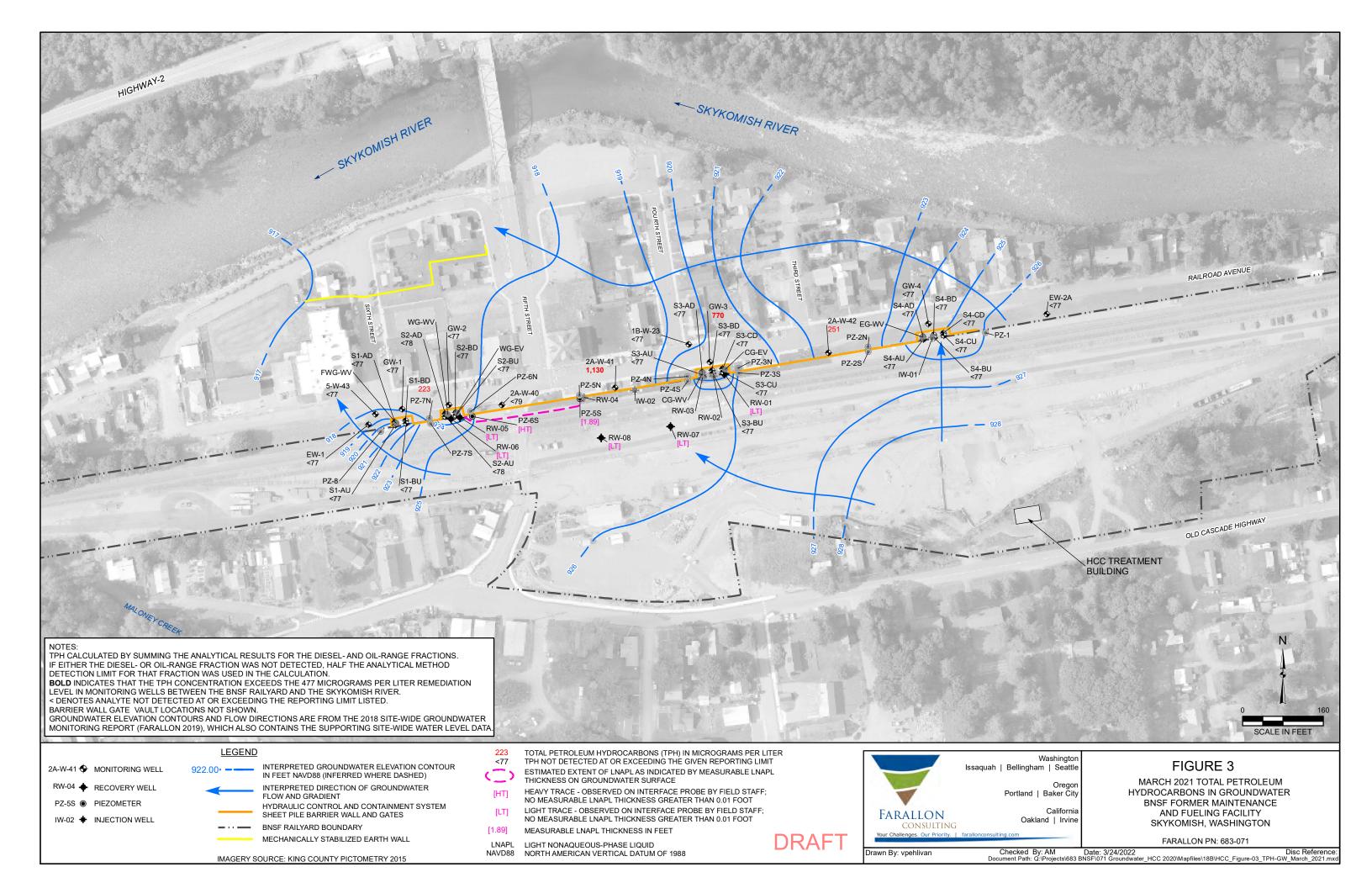
To Shane DeGross, BNSF Railway Company. October 26.

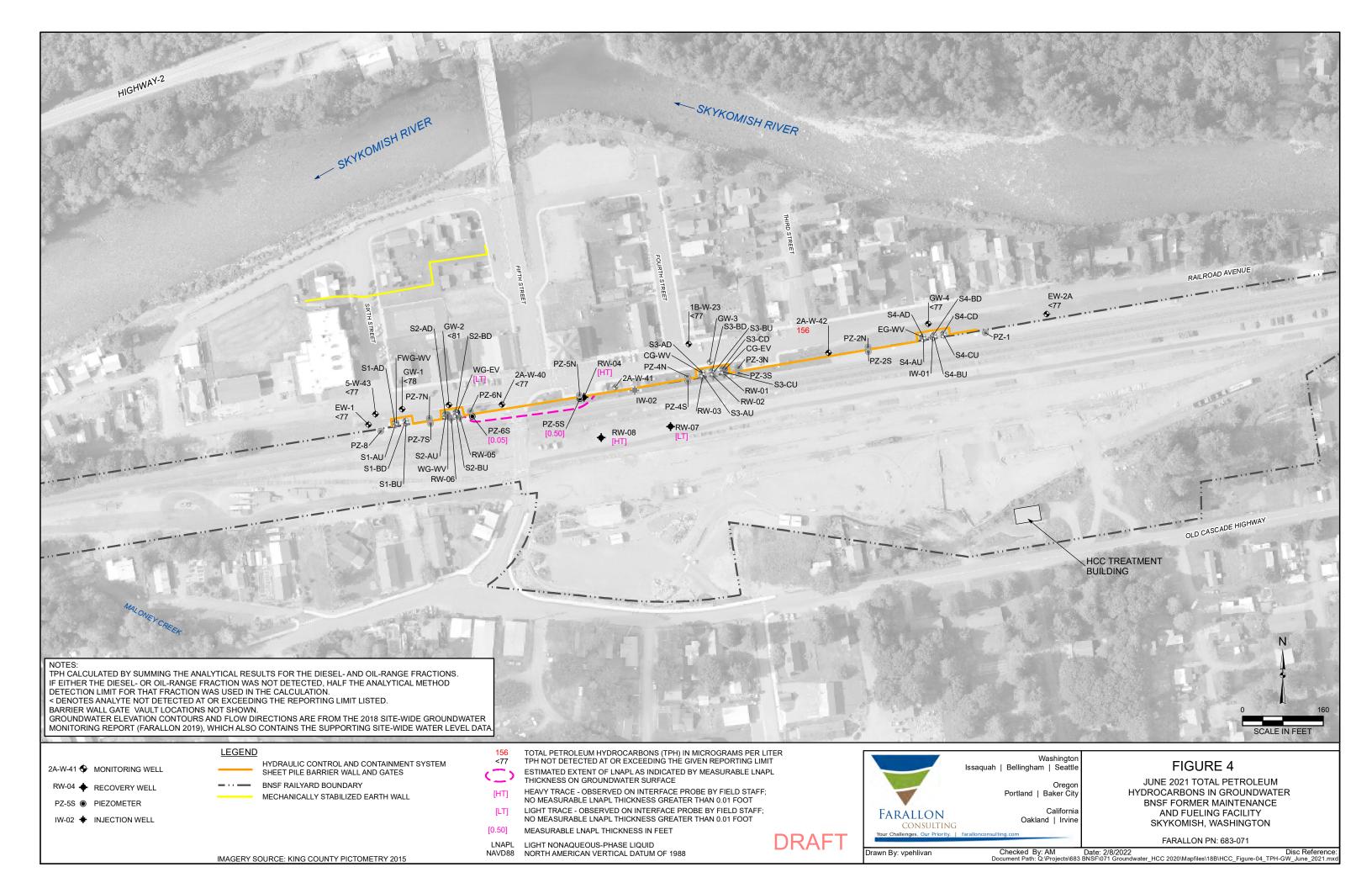
FIGURES

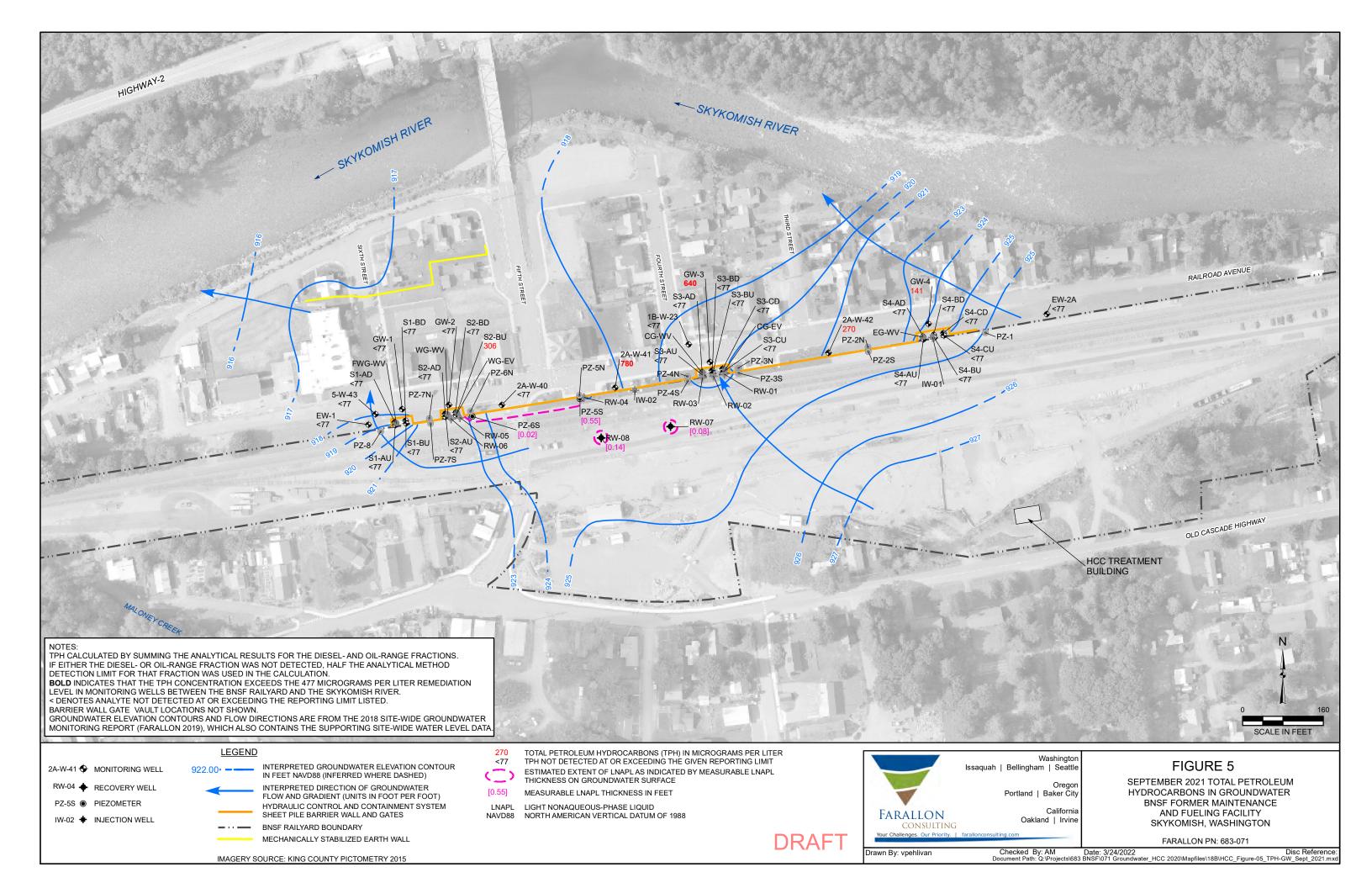
2021 ANNUAL HYDRAULIC CONTROL AND CONTAINMENT SYSTEM
OPERATIONS REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

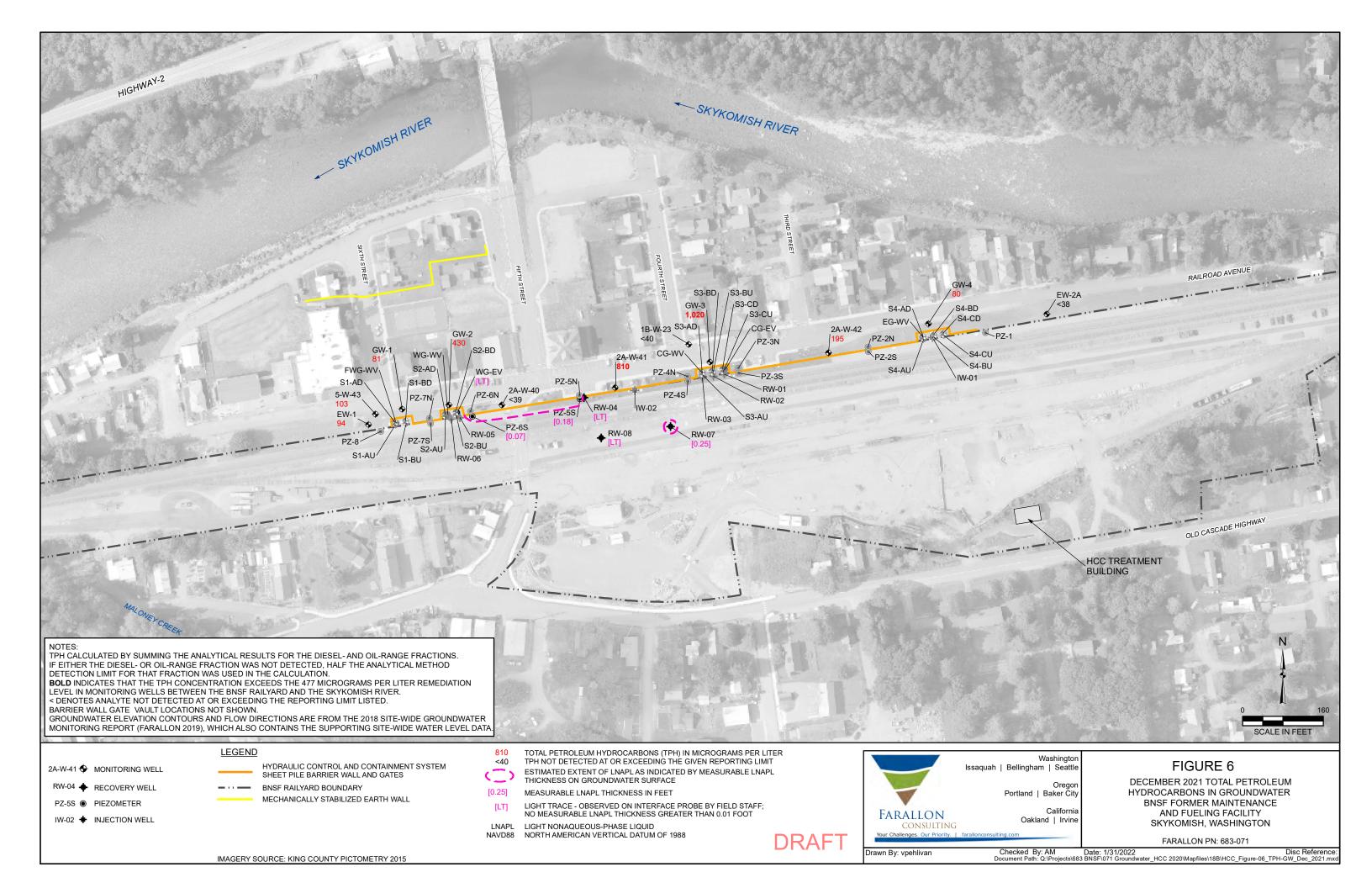


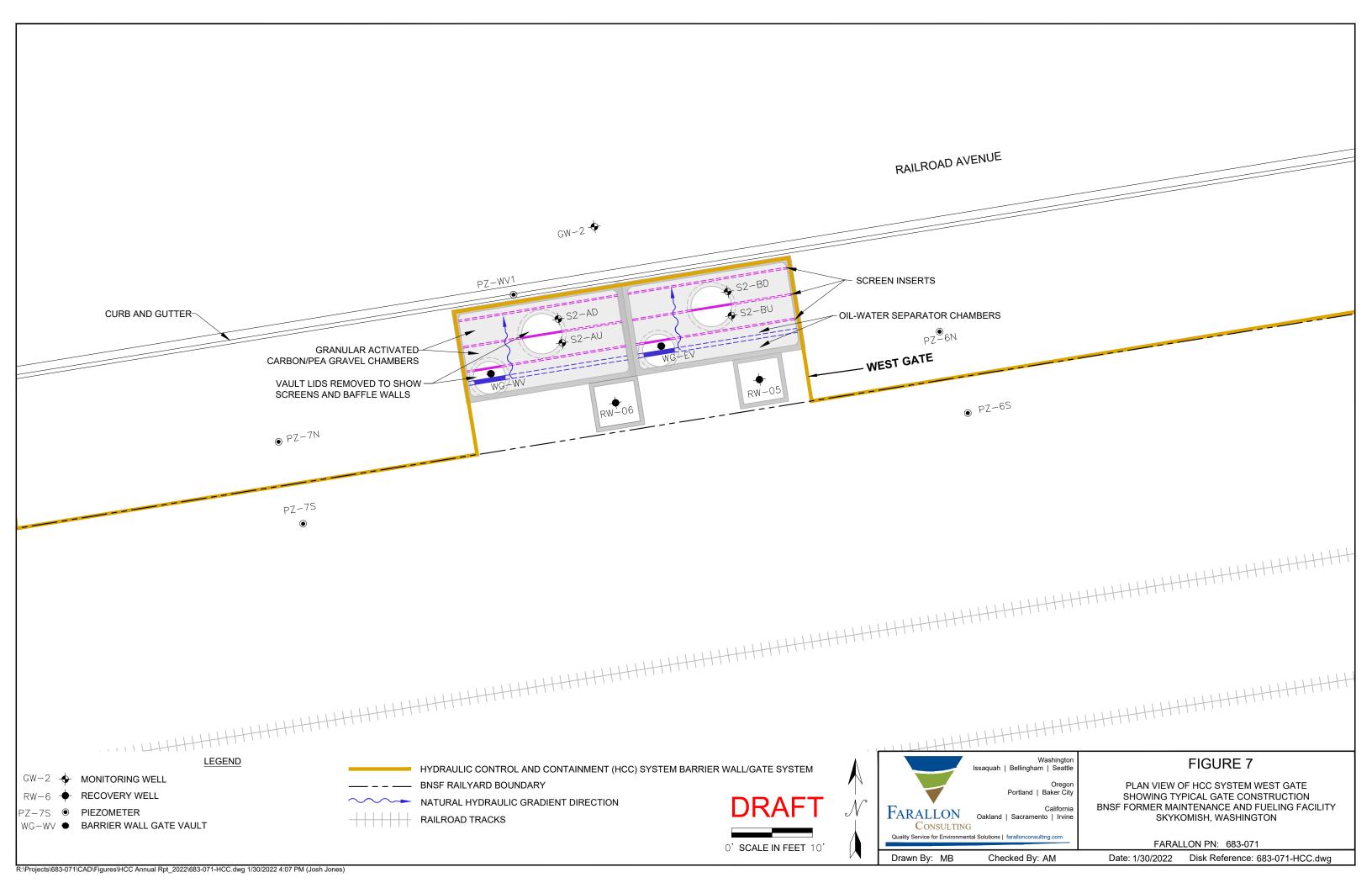












TABLES

2021 ANNUAL HYDRAULIC CONTROL AND CONTAINMENT SYSTEM
OPERATIONS REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

HCC Water Treatment System Discharge Flow Rates BNSF Former Maintenance and Fueling Facility Skykomish, Washington

Date	Cumulative Discharge Volume Since Water Treatment System Start-Up (gallons)	Calculated Average Daily Flow Rate ¹ (gallons per minute)
1/1/2021	135,891,267	0
1/2/2021	135,891,267	0
1/3/2021	135,891,267	0
1/4/2021	135,900,411	6
1/5/2021	135,930,667	21
1/6/2021	135,936,595	4
1/7/2021	135,936,595	0
1/8/2021	135,936,599	0
1/9/2021	135,968,603	22
1/10/2021	136,008,655	28
1/11/2021	136,048,571	28
1/12/2021	136,082,471	24
1/13/2021	136,095,911	28
1/14/2021	136,095,911	0
1/15/2021	136,110,239	5
1/16/2021	136,150,087	28
1/17/2021	136,189,291	27
1/18/2021	136,227,907	27
1/19/2021	136,266,003	26
1/20/2021	136,303,287	26
1/21/2021	136,340,099	26
1/22/2021	136,376,803	25
1/23/2021	136,413,371	25
1/24/2021	136,449,907	25
1/25/2021	136,486,387	25
1/26/2021	136,522,903	25
1/27/2021	136,559,487	25
1/28/2021	136,596,131	25
1/29/2021	136,632,727	25
1/30/2021	136,669,295	25
1/31/2021	136,706,359	26
2/1/2021	136,743,451	26
2/2/2021	136,783,007	27
2/3/2021	136,821,007	26
2/4/2021	136,858,555	26
2/5/2021	136,896,051	26
2/6/2021	136,932,655	25
2/7/2021	136,969,343	25
2/8/2021	136,980,275	7
2/9/2021	136,997,979	13
2/10/2021	137,025,171	19
2/11/2021	137,051,495	18
2/12/2021	137,076,951	18
2/13/2021	137,091,215	11
2/14/2021	137,114,499	16
2/15/2021	137,138,687	17
2/16/2021	137,162,159	16
PDES Permit Discharge L		100

HCC Water Treatment System Discharge Flow Rates BNSF Former Maintenance and Fueling Facility Skykomish, Washington

Date	Cumulative Discharge Volume Since Water Treatment System Start-Up (gallons)	Calculated Average Daily Flow Rate ¹ (gallons per minute)
2/17/2021	137,172,067	7
2/18/2021	137,191,771	14
2/19/2021	137,218,059	18
2/20/2021	137,244,627	18
2/21/2021	137,271,307	19
2/22/2021	137,296,655	18
2/23/2021	137,321,455	15
2/24/2021	137,349,091	19
2/25/2021	137,374,895	18
2/26/2021	137,399,803	17
2/27/2021	137,426,843	19
2/28/2021	137,451,587	17
3/1/2021	137,475,047	16
3/2/2021	137,497,195	15
3/3/2021	137,515,071	12
3/4/2021	137,534,899	14
3/5/2021	137,553,911	13
3/6/2021	137,572,319	13
3/7/2021	137,590,083	12
3/8/2021	137,607,263	12
3/9/2021	137,623,611	11
3/10/2021	137,640,111	11
3/11/2021	137,656,679	12
3/12/2021	137,670,403	11
3/13/2021	137,688,911	11
3/14/2021	137,702,955	11
3/15/2021	137,716,951	12
3/16/2021	137,737,455	11
3/17/2021	137,753,971	11
3/18/2021	137,770,571	12
3/19/2021	137,787,387	12
3/20/2021	137,804,351	12
3/21/2021	137,821,399	12
3/22/2021	137,838,795	12
3/23/2021	137,856,247	12
3/24/2021	137,873,847	12
3/25/2021	137,891,367	12
3/26/2021	137,908,663	12
3/27/2021	137,925,691	12
3/28/2021	137,941,839	11
3/29/2021	137,943,531	7
3/30/2021	137,943,531	0
3/31/2021	137,943,531	0
4/1/2021	137,960,387	12
4/2/2021	137,976,839	11
4/3/2021	137,993,187	11
4/4/2021	138,009,463	11
PDES Permit Discharge L		100

HCC Water Treatment System Discharge Flow Rates BNSF Former Maintenance and Fueling Facility Skykomish, Washington

Date	Cumulative Discharge Volume Since Water Treatment System Start-Up (gallons)	Calculated Average Daily Flow Rate ¹ (gallons per minute)
4/5/2021	138,028,571	13
4/6/2021	138,056,179	19
4/7/2021	138,083,323	19
4/8/2021	138,107,131	17
4/9/2021	138,122,435	11
4/10/2021	138,122,551	0
4/11/2021	138,122,555	0
4/12/2021	138,142,055	14
4/13/2021	138,164,679	16
4/14/2021	138,187,347	16
4/15/2021	138,209,987	16
4/16/2021	138,232,711	16
4/17/2021	138,255,663	16
4/18/2021	138,278,815	16
4/19/2021	138,302,127	16
4/20/2021	138,325,543	16
4/21/2021	138,348,851	16
4/22/2021	138,372,039	16
4/23/2021	138,395,163	16
4/24/2021	138,416,219	15
4/25/2021	138,433,307	12
4/26/2021	138,450,387	12
4/27/2021	138,467,615	12
4/28/2021	138,484,947	12
4/29/2021	138,502,183	12
4/30/2021	138,519,475	12
5/1/2021	138,536,823	12
5/2/2021	138,554,175	12
5/3/2021	138,571,531	12
5/4/2021	138,588,807	12
5/5/2021	138,608,279	14
5/6/2021	138,631,879	16
5/7/2021	138,651,331	14
5/8/2021	138,668,839	12
5/9/2021	138,686,031	12
5/10/2021	138,703,259	12
5/11/2021	138,720,623	12
5/12/2021	138,738,115	12
5/13/2021	138,755,591	12
5/14/2021	138,773,103	12
5/15/2021	138,790,547	12
5/16/2021	138,808,419	12
5/17/2021	138,827,319	13
5/18/2021	138,850,831	16
5/19/2021	138,874,203	16
5/20/2021	138,897,211	16
5/21/2021	138,919,819	16
VPDES Permit Discharge Li		100

HCC Water Treatment System Discharge Flow Rates BNSF Former Maintenance and Fueling Facility Skykomish, Washington

Date	Cumulative Discharge Volume Since Water Treatment System Start-Up (gallons)	Calculated Average Daily Flow Rate ¹ (gallons per minute)
5/22/2021	138,942,055	15
5/23/2021	138,963,915	15
5/24/2021	138,985,487	15
5/25/2021	139,007,003	15
5/26/2021	139,028,727	15
5/27/2021	139,050,311	15
5/28/2021	139,071,943	15
5/29/2021	139,093,191	15
5/30/2021	139,114,087	15
5/31/2021	139,134,751	14
6/1/2021	139,156,747	15
6/2/2021	139,181,859	17
6/3/2021	139,206,875	17
6/4/2021	139,231,599	17
6/5/2021	139,256,163	17
6/6/2021	139,280,599	17
6/7/2021	139,304,859	17
6/8/2021	139,328,607	16
6/9/2021	139,352,087	16
6/10/2021	139,375,255	16
6/11/2021	139,397,975	16
6/12/2021	139,420,347	16
6/13/2021	139,442,439	15
6/14/2021	139,461,271	15
6/15/2021	139,482,855	15
6/16/2021	139,503,611	14
6/17/2021	139,523,975	14
6/18/2021	139,543,967	14
6/19/2021	139,563,491	14
6/20/2021	139,582,835	13
6/21/2021	139,600,951	13
6/22/2021	139,619,055	13
6/23/2021	139,636,835	12
6/24/2021	139,637,955	1
6/25/2021	139,654,615	12
6/26/2021	139,669,411	10
6/27/2021	139,685,183	11
6/28/2021	139,689,611	3
6/29/2021	139,700,635	8
6/30/2021	139,706,715	4
7/1/2021	139,712,155	4
7/2/2021	139,717,199	4
7/3/2021	139,717,267	0
7/4/2021	139,718,123	1
7/5/2021	139,732,843	10
7/6/2021	139,747,083	10
7/7/2021	139,763,199	11

HCC Water Treatment System Discharge Flow Rates BNSF Former Maintenance and Fueling Facility Skykomish, Washington

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Date	Cumulative Discharge Volume Since Water Treatment System Start-Up (gallons)	Calculated Average Daily Flow Rate ¹ (gallons per minute)
7/8/2021	139,783,711	14
7/9/2021	139,803,979	14
7/10/2021	139,824,135	14
7/11/2021	139,844,171	14
7/12/2021	139,864,015	14
7/13/2021	139,883,795	14
7/14/2021	139,903,439	14
7/15/2021	139,910,963	5
7/16/2021	139,925,855	10
7/17/2021	139,940,651	10
7/18/2021	139,955,463	10
7/19/2021	139,970,499	10
7/20/2021	139,985,539	10
7/21/2021	140,000,671	11
7/22/2021	140,016,043	11
7/23/2021	140,031,447	11
7/24/2021	140,046,879	11
7/25/2021	140,062,467	11
7/26/2021	140,078,295	11
7/27/2021	140,094,331	11
7/28/2021	140,113,291	13
7/29/2021	140,137,967	17
7/30/2021	140,162,675	17
7/31/2021	140,187,467	17
8/1/2021	140,212,231	17
8/2/2021	140,237,259	17
8/3/2021	140,262,579	18
8/4/2021	140,263,975	1
8/5/2021	140,271,423	5
8/6/2021	140,297,727	18
8/7/2021	140,324,011	18
8/8/2021	140,350,423	18
8/9/2021	140,377,119	19
8/10/2021	140,403,995	19
8/11/2021	140,430,251	18
8/12/2021	140,453,627	16
8/13/2021	140,478,923	18
8/14/2021	140,478,923	0
8/15/2021	140,478,927	0
8/16/2021	140,503,567	17
8/17/2021	140,532,035	20
8/18/2021	140,560,471	20
8/19/2021	140,589,047	20
8/20/2021	140,617,743	20
8/21/2021	140,646,635	20
8/22/2021	140,675,667	20
8/23/2021	140,704,911	20
IPDES Permit Discharge I	Limit ¹ 5 of 8	100

HCC Water Treatment System Discharge Flow Rates BNSF Former Maintenance and Fueling Facility Skykomish, Washington

Date	Cumulative Discharge Volume Since Water Treatment System Start-Up (gallons)	Calculated Average Daily Flow Rate ¹ (gallons per minute)
8/24/2021	140,734,211	20
8/25/2021	140,763,699	20
8/26/2021	140,793,383	21
8/27/2021	140,823,199	21
8/28/2021	140,853,115	21
8/29/2021	140,883,111	21
8/30/2021	140,913,215	21
8/31/2021	140,943,403	21
9/1/2021	140,973,695	21
9/2/2021	141,004,103	21
9/3/2021	141,034,563	21
9/4/2021	141,065,047	21
9/5/2021	141,095,503	21
9/6/2021	141,125,911	21
9/7/2021	141,156,375	21
9/8/2021	141,187,627	20
9/9/2021	141,189,079	1
9/10/2021	141,219,959	21
9/11/2021	141,250,471	21
9/12/2021	141,281,091	21
9/13/2021	141,311,703	21
9/14/2021	141,342,339	21
9/15/2021	141,372,843	21
9/16/2021	141,403,143	21
9/17/2021	141,433,219	21
9/18/2021	141,461,291	20
9/19/2021	141,491,439	21
9/20/2021	141,516,571	19
9/21/2021	141,546,703	21
9/22/2021	141,576,751	21
9/23/2021	141,606,939	21
9/24/2021	141,636,927	21
9/25/2021	141,666,631	21
9/26/2021	141,695,831	20
9/27/2021	141,724,787	20
9/28/2021	141,753,635	20
9/29/2021	141,781,979	20
9/30/2021	141,809,823	19
10/1/2021	141,837,515	19
10/2/2021	141,855,363	13
10/3/2021	141,855,363	0
10/4/2021	141,855,363	0
10/5/2021	141,863,359	6
10/6/2021	141,890,387	19
10/7/2021	141,917,087	19
10/8/2021	141,943,391	18
10/9/2021	141,969,311	18
PDES Permit Discharge Li		100

Table 1

HCC Water Treatment System Discharge Flow Rates BNSF Former Maintenance and Fueling Facility Skykomish, Washington

Date	Cumulative Discharge Volume Since Water Treatment System Start-Up (gallons)	Calculated Average Daily Flow Rate ¹ (gallons per minute)
10/10/2021	141,983,079	9
10/11/2021	141,983,079	0
10/12/2021	141,983,079	0
10/13/2021	141,983,079	0
10/14/2021	141,983,079	0
10/15/2021	141,983,079	0
10/16/2021	141,983,079	0
10/17/2021	141,983,079	0
10/18/2021	141,983,079	0
10/19/2021	141,983,079	0
10/20/2021	141,983,079	0
10/21/2021	141,983,079	0
10/22/2021	141,983,079	0
10/23/2021	141,983,079	0
10/24/2021	141,983,079	0
10/25/2021	141,983,079	0
10/26/2021	142,225,199	14
10/27/2021	142,225,199	0
10/28/2021	142,225,199	0
10/29/2021	142,225,199	0
10/30/2021	142,225,199	0
10/31/2021	142,225,199	0
11/1/2021	142,225,199	0
11/2/2021	142,225,199	0
11/3/2021	142,225,199	0
11/4/2021	142,235,259	1
11/5/2021	142,261,891	18
11/6/2021	142,288,927	19
11/7/2021	142,315,399	19
11/8/2021	142,340,399	17
11/9/2021	142,369,063	20
11/10/2021	142,392,083	16
11/11/2021	142,413,439	15
11/12/2021	142,435,907	16
11/13/2021	142,458,167	15
11/14/2021	142,483,523	18
11/15/2021	142,507,611	20
11/16/2021	142,534,947	17
11/17/2021	142,558,463	16
11/18/2021	142,579,203	14
11/19/2021	142,594,935	11
11/20/2021	142,610,171	11
11/21/2021	142,631,919	15
11/22/2021	142,653,455	15
11/23/2021	142,675,943	16
11/24/2021	142,701,623	18
11/25/2021	142,726,563	17

Table 1

HCC Water Treatment System Discharge Flow Rates BNSF Former Maintenance and Fueling Facility

Skykomish, Washington Farallon PN: 683-071

	Cumulative Discharge Volume Since Water Treatment System Start-Up	Calculated Average Daily Flow Rate ¹
Date	(gallons)	(gallons per minute)
11/26/2021	142,745,451	13
11/27/2021	142,761,955	11
11/28/2021	142,778,499	11
11/29/2021	142,795,159	12
11/30/2021	142,810,867	11
12/1/2021	142,827,343	11
12/2/2021	142,853,399	18
12/3/2021	142,879,815	18
12/4/2021	142,904,947	17
12/5/2021	142,928,891	17
12/6/2021	142,951,559	16
12/7/2021	142,973,787	15
12/8/2021	142,994,115	14
12/9/2021	143,012,843	13
12/10/2021	143,031,331	13
12/11/2021	143,049,887	13
12/12/2021	143,067,683	12
12/13/2021	143,088,599	15
12/14/2021	143,104,607	11
12/15/2021	143,117,879	9
12/16/2021	143,138,407	14
12/17/2021	143,155,335	12
12/18/2021	143,171,767	11
12/19/2021	143,186,127	10
12/20/2021	143,200,651	10
12/21/2021	143,221,747	15
12/22/2021	143,243,247	15
12/23/2021	143,259,147	11
12/24/2021	143,274,743	11
12/25/2021	143,282,287	5
12/26/2021	143,286,151	3
12/27/2021	143,291,219	4
12/28/2021	143,309,275	13
12/29/2021	143,321,195	9
12/30/2021	143,327,055	4
12/31/2021	143,344,571	12
PDES Permit Discharge I		100

NOTES:

¹Discharge limit specified in NPDES Permit No. WA0032123, applicable when the Skykomish River level is less than 928.56 feet NAVD88. Discharge is not allowed when the river level exceeds 928.56 feet NAVD88.

HCC = Hydraulic Control and Containment

NAVD88 = North American Vertical Datum of 1988

NPDES = National Pollutant Discharge Elimination System

Table 2
Total Petroleum Hydrocarbon Concentrations in HCC Water Treatment System Influent and Effluent
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington

			(micro	DRO ¹ ograms per li	iter)	(micro	ORO ¹ ograms per li	iter)	Calculated NWTPH-Dx ²
Sample Location	Sample Date	Sample Identification	Result	MDL	MRL	Result	MDL	MRL	(micrograms per liter)
	1/4/2021	BEFORE GAC-1421	240	65	65	230	95	95	470
	1/12/2021	BEFORE GAC-11221	300	62	62	230	91	91	530
	1/19/2021	BEFORE GAC-11921	400	62	62	370	91	91	770
	1/25/2021	BEFORE GAC-12521	570	62	62	300	91	91	870
	2/2/2021	BEFORE GAC-2221	690	62	62	720	91	91	1410
	2/8/2021	BEFORE GAC-2821	360	62	62	330	91	91	690
	2/16/2021	BEFORE GAC-21621	420	62	62	240	91	91	660
	2/26/2021	BEFORE GAC-22621	390	62	62	370	91	91	760
	3/3/2021	BEFORE GAC-3321	470	62	62	410	91	91	880
	3/9/2021	BEFORE GAC-3921	420	62	62	350	91	91	770
	3/18/2021	BEFORE GAC-31821	620	62	62	540	91	91	1160
	3/26/2021	BEFORE GAC-32621	440	63	63	340	93	93	780
	3/30/2021	BEFORE GAC-33021	440	62	62	370	91	91	810
Treatment System	4/7/2021	BEFORE GAC-4721	480	62	62	380	92	92	860
Influent	4/12/2021	BEFORE GAC-41221	420	62	62	310	92	92	730
(Primary GAC	4/21/2021	BEFORE GAC-42121	380	62	62	270	92	92	650
Vessel Influent)	4/29/2021	BEFORE GAC-42921	410	62	62	180	91	91	590
	5/5/2021	BEFORE GAC-5521	380	62	62	290	91	91	670
	5/13/2021	BEFORE GAC-51321	320	61	61	240	91	91	560
	5/19/2021	BEFORE GAC-51921	450	62	62	350	92	92	800
	5/26/2021	BEFORE GAC-52621	320	62	62	240	91	91	560
	6/1/2021	BEFORE GAC-6121	410	61	61	300	91	91	710
	6/8/2021	BEFORE GAC-6821	450	62	62	350	92	92	800
	6/15/2021	BEFORE GAC-61521	300	62	62	220	91	91	520
	6/22/2021	BEFORE GAC-62221	310	62	62	230	92	92	540
	7/2/2021	BEFORE GAC-7221	530	62	62	330	92	92	860
	7/7/2021	BEFORE GAC-7721	400	62	62	240	92	92	640
	7/13/2021	BEFORE GAC-71321	340	62	62	300	92	92	640
	7/21/2021	BEFORE GAC-72121	470	62	62	450	92	92	920
	7/28/2021	BEFORE GAC-72821	420	62	62	270	91	91	690

Table 2
Total Petroleum Hydrocarbon Concentrations in HCC Water Treatment System Influent and Effluent
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington

			(micro	DRO ¹ ograms per li	iter)	(micro	ORO ¹ ograms per li	iter)	Calculated NWTPH-Dx ²
Sample Location	Sample Date	Sample Identification	Result	MDL	MRL	Result	MDL	MRL	(micrograms per liter)
	8/5/2021	BEFORE GAC-8521	410	62	62	240	91	91	650
	8/11/2021	BEFORE GAC-81121	370	62	62	290	92	92	660
	8/15/2021	BEFORE GAC-81521	390	62	62	230	92	92	620
	8/23/2021	BEFORE GAC-82321	120	62	62	<92	92	92	166
	8/29/2021	BEFORE GAC-82921	300	62	62	210	92	92	510
	9/7/2021	BEFORE GAC-9721	270	62	62	190	92	92	460
	9/15/2021	BEFORE GAC-91521	280	62	62	190	91	91	470
	9/29/2021	BEFORE GAC-92921	3300	62	62	750	91	91	4050
	10/5/2021	BEFORE GAC-10521	420	62	62	220	92	92	640
Treatment System	10/14/2021	BEFORE GAC-101421	285	62	62	275	92	92	560
Influent (Primary GAC	10/22/2021	BEFORE GAC-102221	340	62	62	290	91	91	630
Vessel Influent)	10/26/2021	BEFORE GAC-102621	330	62	62	220	92	92	550
,	11/4/2021	BEFORE GAC-11421	520	62	62	420	92	92	940
	11/8/2021	BEFORE GAC-11821	440	62	62	280	92	92	720
	11/16/2021	BEFORE GAC-111621	360	62	62	180	92	92	540
	11/24/2021	BEFORE GAC-112421	230	62	62	120	91	91	350
	12/1/2021	BEFORE GAC-12121	200	62	62	110	92	92	310
	12/7/2021	BEFORE GAC-12721	430	61	61	410	91	91	840
	12/16/2021	BEFORE GAC-121621	550	55	55	380	180	180	930
	12/21/2021	BEFORE GAC-122121	440	55	55	360	180	180	800
	12/27/2021	BEFORE GAC-122721	430	100	100	360	330	330	790

Table 2
Total Petroleum Hydrocarbon Concentrations in HCC Water Treatment System Influent and Effluent
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington

			(micro	DRO ¹ ograms per li	iter)	(micr	ORO ¹ ograms per li	iter)	Calculated NWTPH-Dx ²
Sample Location	Sample Date	Sample Identification	Result	MDL	MRL	Result	MDL	MRL	(micrograms per liter)
	1/4/2021	HCC EFF-1421	<65	65	65	<95	95	95	<80
	1/12/2021	HCC EFF-11221	<62	62	62	<91	91	91	<77
	1/19/2021	HCC EFF-11921	<62	62	62	<91	91	91	<77
	1/25/2021	HCC EFF-12521	<62	62	62	<91	91	91	<77
	2/2/2021	HCC EFF-2221	<62	62	62	<91	91	91	<77
	2/8/2021	HCC EFF-2821	<62	62	62	<91	91	91	<77
	2/16/2021	HCC EFF-21621	<62	62	62	<91	91	91	<77
	2/26/2021	HCC EFF-22621	<62	62	62	<91	91	91	<77
	3/3/2021	HCC EFF-3321	<62	62	62	<91	91	91	<77
	3/9/2021	HCC EFF-3921	<62	62	62	<91	91	91	<77
	3/18/2021	HCC EFF-31821	<62	62	62	<91	91	91	<77
	3/26/2021	HCC EFF-32621	<63	63	63	<93	93	93	<78
	3/30/2021	HCC EFF-33021	<62	62	62	<91	91	91	<77
Treatment System	4/7/2021	HCC EFF-4721	<62	62	62	<92	92	92	<77
Effluent (Secondary GAC	4/12/2021	HCC EFF-41221	<62	62	62	<92	92	92	<77
Vessel Effluent)	4/21/2021	HCC EFF-42121	<62	62	62	<92	92	92	<77
	4/29/2021	HCC EFF-42921	<62	62	62	<91	91	91	<77
	5/5/2021	HCC EFF-5521	<62	62	62	<91	91	91	<77
	5/13/2021	HCC EFF-51321	<62	61	61	<91	91	91	<77
	5/19/2021	HCC EFF-51921	<62	62	62	<92	92	92	<77
	5/26/2021	HCC EFF-52621	<62	62	62	<91	91	91	<77
	6/1/2021	HCC EFF-6121	<61	61	61	<91	91	91	<76
	6/8/2021	HCC EFF-6821	<62	62	62	<92	92	92	<77
	6/15/2021	HCC EFF-61521	<62	62	62	<91	91	91	<77
	6/22/2021	HCC EFF-62221	<62	62	62	<92	92	92	<77
	7/2/2021	HCC EFF-7221	<62	62	62	<92	92	92	<77
	7/7/2021	HCC EFF-7721	<62	62	62	<92	92	92	<77
	7/13/2021	HCC EFF-71321	<62	62	62	<92	92	92	<77
	7/21/2021	HCC EFF-72121	<62	62	62	<92	92	92	<77
NPDES Permit Disc	harge Limit ³								208

Table 2

Total Petroleum Hydrocarbon Concentrations in HCC Water Treatment System Influent and Effluent

BNSF Former Maintenance and Fueling Facility

Skykomish, Washington Farallon PN: 683-067

			(micro	DRO ¹ ograms per li	iter)	(micro	ORO ¹ ograms per li	iter)	Calculated NWTPH-Dx ²
Sample Location	Sample Date	Sample Identification	Result	MDL	MRL	Result	MDL	MRL	(micrograms per liter)
	7/28/2021	HCC EFF-72821	<62	62	62	<91	91	91	<77
	8/5/2021	HCC EFF-8521	<62	62	62	<91	91	91	<77
	8/11/2021	HCC EFF-81121	<62	62	62	<92	92	92	<77
	8/15/2021	HCC EFF-81521	<62	62	62	<92	92	92	<77
	8/23/2021	HCC EFF-82321	<62	62	62	<92	92	92	<77
	8/29/2021	HCC EFF-82921	<62	62	62	<92	92	92	<77
	9/7/2021	HCC EFF-9721	<62	62	62	<92	92	92	<77
	9/15/2021	HCC EFF-91521	<62	62	62	<91	91	91	<77
	9/29/2021	HCC EFF-92921	<62	62	62	<91	91	91	<77
Treatment System	10/5/2021	HCC EFF-10521	88	62	62	<92	92	92	88
Effluent	10/14/2021	HCC EFF-101421	86	62	62	100	92	92	187
(Secondary GAC	10/22/2021	HCC EFF-102221	100	62	62	97	91	91	197
Vessel Effluent)	10/26/2021	HCC EFF-102621	130	62	62	<92	92	92	130
	11/4/2021	HCC EFF-11421	<62	62	62	<92	92	92	<77
	11/8/2021	HCC EFF-11821	<62	62	62	<92	92	92	<77
	11/16/2021	HCC EFF-111621	<62	62	62	<92	92	92	<77
	11/24/2021	HCC EFF-112421	<62	62	62	<91	91	91	<77
	12/1/2021	HCC EFF-12121	<62	62	62	<92	92	92	<77
	12/7/2021	HCC EFF-12721	<61	61	61	<91	91	91	<76
	12/16/2021	HCC EFF-121621	<55	55	55	<170	170	170	<113
	12/21/2021	HCC EFF-122121	<56	56	56	<180	180	180	<118
	12/27/2021	HCC EFF-122721	<55	55	55	<180	180	180	<118
NPDES Permit Disc	harge Limit ³								208

NOTES:

DRO = total petroleum hydrocarbons as diesel-range organics

HCC = Hydraulic Control and Containment

J = The reported concentration is an estimated value

MDL = method detection limit

MRL = method reporting limit

NPDES = National Pollutant Discharge Elimination System

ORO = total petroleum hydrocarbons as oil-range organics

UJ = not detected at or exceeding the reported concentration; the reported concentration is an estimated value

[&]quot;<" denotes analyte not detected at or exceeding the reported concentration.

¹Analyzed by Washington State Department of Ecology Method NWTPH-Dx.

²Sum of DRO and ORO, using half the method detection limit for non-detect results. Data reported previously in NPDES Discharge Monitoring Reports pursuant to NPDES Permit No. WA0032123.

³Discharge limit specified in NPDES Permit No. WA0032123.

Table 3 pH in HCC Water Treatment System Effluent BNSF Former Maintenance and Fueling Facility Skykomish, Washington

Farallon PN: 683-071

	pH ¹
Sample Date	(Standard Units)
1/4/2021	7.64
1/12/2021	7.30
1/19/2021	7.33
1/25/2021	7.36
2/2/2021	7.37
2/8/2021	7.36
2/16/2021	7.37
2/26/2021	7.40
3/3/2021	7.40
3/9/2021	7.43
3/18/2021	7.43
3/26/2021	7.50
3/30/2021	7.53
4/7/2021	7.48
4/12/2021	8.50
4/21/2021	7.84
4/29/2021	7.66
5/5/2021	7.62
5/13/2021	7.77
5/19/2021	7.76
5/26/2021	7.61
6/1/2021	7.66
6/8/2021	7.70
6/15/2021	7.63
6/22/2021	7.76
7/2/2021	7.72
7/7/2021	7.64
7/13/2021	7.70
7/21/2021	7.69
7/28/2021	7.62
8/5/2021	7.55
8/11/2021	7.78
8/15/2021	7.76
8/23/2021	7.78
8/29/2021	7.78
9/7/2021	7.71
9/15/2021	7.71
9/29/2021	7.67
10/5/2021	7.61
10/14/2021	7.65
10/22/2021	7.76
10/26/2021	7.70
11/4/2021	8.28
11/8/2021	7.81
11/16/2021	7.80
11/24/2021	7.70
12/1/2021	7.80
12/7/2021	7.79
12/16/2021	7.72
12/21/2021	
	7.73
12/27/2021	7.69
NPDES Permit	
Discharge Limit ²	6.5-8.5

NOTES:

¹Data reported previously in NPDES Discharge Monitoring

Reports pursuant to NPDES Permit No. WA0032123.

²Discharge limit specified in NPDES Permit No. WA0032123.

HCC = Hydraulic Control and Containment

NPDES = National Pollutant Discharge Elimination System

Table 4

Metal Concentrations in HCC Water Treatment System Effluent BNSF Former Maintenance and Fueling Facility Skykomish, Washington

Farallon PN: 683-071

		•	eal Results ms per liter)
Sample Date	Sample Identification	Total Lead ¹	Total Arsenic ¹
01/25/2021	HCC EFF-12521	< 0.80	< 1.0
02/26/2021	HCC EFF-22621	< 0.80	1.30
03/09/2021	HCC EFF-3921	< 0.40	< 1.0
04/21/2021	HCC EFF-42121	< 0.40	1.70
05/13/2021	HCC EFF-51321	< 0.40	< 1.0
06/08/2021	HCC EFF-6821	< 0.40	< 1.0
07/02/2021	HCC EFF-7221	< 0.40	< 1.0
08/11/2021	HCC EFF-81121	< 0.40	1.50
10/05/2021	HCC EFF-10521	< 0.40	< 1.0
11/16/2021	HCC EFF-111621	< 0.40	< 1.0
12/07/2021	HCC EFF-12721	< 0.40	< 1.0
NPDES Permit Discl	harge Limit ²	17.5	360

NOTES:

HCC = Hydraulic Control and Containment NPDES = National Pollutant Discharge Elimination System

[&]quot;<" denotes analyte not detected at or exceeding the method reporting limit listed.

¹Analyzed by U.S. Environmental Protection Agency Method 200.8. Data reported previously in NPDES Discharge Monitoring Reports pursuant to NPDES Permit No. WA0032123.

²Discharge limit specified in NPDES Permit No. WA0032123.

	1		T	<u>, </u>		Groun	idwater Elevatioi	ns at Piezon	neters (feet)	NAVD88) and Ele	evation Diff	erentials at	Piezometer Pairs	(teet)		, ,		1	<u> </u>	
Date	PZ-1	PZ-2S	PZ-2N	Elevation Differential at PZ-2S/PZ-2N	PZ-3S	PZ-3N	Elevation Differential at PZ-3S/PZ-3N	PZ-4S	PZ-4N	Elevation Differential at PZ-4S/PZ-4N	PZ-5S	PZ-5N	Elevation Differential at PZ-5S/PZ-5N	PZ-6S	PZ-6N	Elevation Differential at PZ-6S/PZ-6N	PZ-7S	PZ-7N	Elevation Differential at PZ-7S/PZ-7N	PZ-8
1/1/2021	926.84	926.84	924.02	2.82	926.73	921.17	5.56	926.32	921.31	5.01	923.57	919.52	4.05	925.32	918.30	7.02	924.32	918.49	5.83	920.39
1/2/2021	927.49	927.70	924.59	3.11	927.71	921.17	6.54	927.26	921.31	5.95	924.17	919.96	4.21	926.12	918.75	7.37	925.21	919.06	6.15	920.97
1/3/2021	927.87	928.48	925.67	2.81	928.39	921.16	7.23	927.7	921.31	6.39	924.54	920.93	3.61	926.79	919.73	7.06	925.95	919.97	5.98	921.66
1/4/2021	927.74	928.44	925.13	3.31	928.20	921.14	7.06	927.5	921.29	6.21	924.40	920.32	4.08	926.59	919.26	7.33	925.72	919.52	6.20	921.47
1/5/2021	927.39	928.41	925.04	3.37	928.05	921.12	6.93	927.48	921.21	6.27	924.34	920.19	4.15	926.50	919.17	7.33	925.69	919.31	6.38	921.14
1/6/2021	927.38	928.37	924.93	3.44	928.14	921.15	6.99	927.57	921.23	6.34	924.38	920.10	4.28	926.44	918.80	7.64	925.66	919.25	6.41	921.10
1/7/2021	927.14	928.16	924.58	3.58	927.77	921.16	6.61	927.27	921.28	5.99	924.08	919.78	4.30	926.04	918.80	7.24	925.23	918.91	6.32	920.78
1/8/2021	926.88	927.87	924.17	3.70	927.35	921.13	6.22	926.99	921.25	5.74	923.89	919.60	4.29	925.70	918.61	7.09	924.87	918.69	6.18	920.42
1/9/2021	926.69	927.52	923.95	3.57	926.81	921.11	5.70	926.28	921.28	5.00	923.60	919.42	4.18	925.33	918.36	6.97	924.48	918.51	5.97	920.27
1/10/2021	926.53	927.08	923.75	3.33	926.36	921.13	5.23	925.77	921.27	4.50	923.34	919.31	4.03	925.03	918.01	7.02	924.08	918.34	5.74	920.05
1/11/2021	926.40	926.71	923.59	3.12	926.05	921.14	4.91	925.42	921.25	4.17	923.20	919.28	3.92	924.79	918.17	6.62	923.85	918.28	5.57	919.93
1/12/2021	927.21	927.15	924.02	3.13	926.97	921.13	5.84	926.49	921.25	5.24	924.00	919.52	4.48	925.53	918.31	7.22	924.49	919.08	5.41	920.58
2/21/2021	926.05	925.35	923.48	1.87	925.08	920.99	4.09	924.58	921.20	3.38	922.66	919.05	3.61	923.91	917.86	6.05	922.78	917.80	4.98	919.54
2/22/2021	927.43	927.27	924.64	2.63	927.45	921	6.45	926.71	921.20	5.51	923.79	919.67	4.12	925.17	918.24	6.93	924.19	919.55	4.64	920.66
2/23/2021	927.67	928.38	925.46	2.92	928.05	921.01	7.04	927.43	921.20	6.23	924.25	920.54	3.71	926.34	919.38	6.96	925.46	919.40	6.06	921.33
2/24/2021	927.11	928.16	924.75	3.41	927.63	920.99	6.64	927.12	921.20	5.92	924.04	919.91	4.13	925.96	918.59	7.37	925.11	918.79	6.32	920.85
2/25/2021	927.03	927.85	924.28	3.57	927.23	920.99	6.24	926.74	921.17	5.57	923.86	919.60	4.26	925.68	918.62	7.06	924.81	918.44	6.37	920.53
2/26/2021	927.05	927.84	924.35	3.49	927.30	921.02	6.28	926.84	921.16	5.68	923.96	919.57	4.39	925.84	918.42	7.42	924.94	918.42	6.52	920.65
2/27/2021	926.78	927.69	924.26	3.43	927.10	921	6.10	926.64	921.16	5.48	923.86	919.51	4.35	925.62	918.48	7.14	924.79	918.32	6.47	920.46
2/28/2021	926.66	927.42	924.07	3.35	926.86	920.98	5.88	926.42	921.21	5.21	923.68	919.38	4.30	925.45	918.30	7.15	924.52	918.19	6.33	920.31
3/1/2021	926.47	927.15	923.87	3.28	926.61	920.99	5.62	926.17	921.16	5.01	923.53	919.31	4.22	925.17	917.89	7.28	924.30	918.10	6.20	920.14
3/2/2021	926.35	926.90	923.77	3.13	926.44	920.99	5.45	925.98	921.18	4.80	923.41	919.30	4.11	925.00	917.95	7.05	924.08	918.07	6.01	920.06
3/3/2021	926.29	926.69	923.66	3.03	926.23	920.97	5.26	925.83	921.15	4.68	923.32	919.28	4.04	924.86	918.02	6.84	923.94	918.03	5.91	919.94
3/4/2021	926.42	926.52	923.63	2.89	926.16	920.99	5.17	925.69	921.18	4.51	923.26	919.24	4.02	924.77	918.28	6.49	923.83	918.00	5.83	919.93
3/5/2021	926.39	926.49	923.57	2.92	926.03	920.97	5.06	925.6	921.16	4.44	923.17	919.21	3.96	924.72	918.15	6.57	923.71	917.96	5.75	919.85
3/6/2021	926.45	926.45	923.59	2.86	926.06	921	5.06	925.59	921.16	4.43	923.16	919.24	3.92	924.72	918.17	6.55	923.71	917.99	5.72	919.90
3/7/2021	926.46	926.47	923.60	2.87	926.06	921	5.06	925.59	921.15	4.44	923.16	919.24	3.92	924.70	918.10	6.60	923.70	917.99	5.71	919.90
3/8/2021	926.23	926.47	923.61	2.86	926.07	921	5.07	925.59	921.14	4.45	923.18	919.24	3.94	924.74	918.23	6.51	923.73	917.98	5.75	919.88
3/9/2021	926.12	926.37	923.58	2.79	925.99	920.98	5.01	925.54	921.19	4.35	923.10	919.18	3.92	924.63	917.89	6.74	923.61	917.90	5.71	919.85
3/10/2021	926.04	926.26	923.49	2.77	925.83	920.96	4.87	925.39	921.16	4.23	923.06	919.18	3.88	924.52	918.12	6.40	923.56	917.91	5.65	919.73
3/11/2021	925.97	926.09	923.45	2.64	925.70	920.99	4.71	925.23	921.19	4.04	922.97	919.13	3.84	924.44	918.17	6.27	923.42	917.85	5.57	919.69
3/12/2021	925.89	925.96	923.38	2.58	925.56	920.99	4.57	925.11	921.17	3.94	922.89	919.11	3.78	924.29	917.71	6.58	923.29	917.82	5.47	919.62
3/13/2021	925.81	925.82	923.33	2.49	925.44	920.99	4.45	924.99	921.17	3.82	922.83	919.04	3.79	924.22	917.98	6.24	923.19	917.76	5.43	919.56
3/14/2021	925.80	925.70	923.29	2.41	925.36	921.01	4.35	924.86	921.15	3.71	922.75	919.08	3.67	924.06	917.79	6.27	923.07	917.80	5.27	919.52
3/15/2021	925.76	925.61	923.25	2.36	925.26	920.99	4.27	924.78	921.14	3.64	922.71	919.08	3.63	924.02	917.96	6.06	922.99	917.79	5.20	919.47
3/16/2021	925.73	925.53	923.24	2.29	925.20	921.01	4.19	924.69	921.16	3.53	922.62	919.02	3.60	923.93	917.68	6.25	922.81	917.72	5.09	919.46
3/17/2021	925.67	925.46	923.20	2.26	925.11	920.98	4.13	924.63	921.14	3.49	922.62	919.04	3.58	923.88	917.92	5.96	922.79	917.77	5.02	919.39
3/18/2021	925.65	925.44	923.21	2.23	925.07	920.98	4.09	924.62	921.17	3.45	922.57	919.04	3.53	923.85	917.77	6.08	922.71	917.76	4.95	919.38
3/19/2021	925.75	925.40	923.21	2.19	925.09	920.98	4.11	924.59	921.14	3.45	922.60	919.12	3.48	923.87	918.10	5.77	922.76	917.86	4.90	919.43
3/20/2021	925.82	925.47	923.28	2.19	925.17	921.02	4.15	924.66	921.18	3.48	922.63	919.16	3.47	923.89	918.14	5.75	922.81	917.88	4.93	919.53
3/21/2021	925.86	925.50	923.28	2.22	925.21	920.99	4.22	924.73	921.14	3.59	922.65	919.16	3.49	923.99	917.89	6.10	922.88	917.88	5.00	919.53
3/22/2021	926.29	925.96	923.49	2.47	925.68	921	4.68	925.27	921.17	4.10	923.12	919.26	3.86	924.51	917.91	6.60	923.33	918.03	5.30	919.81
3/23/2021	926.15	926.30	923.73	2.57	926.04	921	5.04	925.63	921.16	4.47	923.19	919.25	3.94	924.75	917.90	6.85	923.76	917.99	5.77	919.96
3/24/2021	926.32	926.33	923.64	2.69	926.00	921.01	4.99	925.53	921.15	4.38	923.20	919.27	3.93	924.71	918.01	6.70	923.73	918.01	5.72	919.94
3/25/2021	926.30	926.66	923.85	2.81	926.36	921	5.36	925.96	921.17	4.79	923.45	919.34	4.11	925.06	918.18	6.88	924.17	918.09	6.08	920.15
3/26/2021	926.21	926.60	923.78	2.82	926.20	920.98	5.22	925.76	921.16	4.60	923.30	919.30	4.00	924.92	918.31	6.61	924.00	918.04	5.96	920.02

						Grour	ndwater Elevation	ns at Piezom	neters (feet)	NAVD88) and Ele	evation Diff	erentials at	Piezometer Pairs	(feet)						
Date	PZ-1	PZ-2S	PZ-2N	Elevation Differential at PZ-2S/PZ-2N	PZ-3S	PZ-3N	Elevation Differential at PZ-3S/PZ-3N	PZ-4S	PZ-4N	Elevation Differential at PZ-4S/PZ-4N	PZ-5S	PZ-5N	Elevation Differential at PZ-5S/PZ-5N	PZ-6S	PZ-6N	Elevation Differential at PZ-6S/PZ-6N	PZ-7S	PZ-7N	Elevation Differential at PZ-7S/PZ-7N	PZ-8
3/27/2021	926.14	926.40	923.60	2.80	925.99	921	4.99	925.52	921.13	4.39	923.18	919.26	3.92	924.76	918.14	6.62	923.84	917.99	5.85	919.87
3/28/2021	926.19	926.28	923.54	2.74	925.88	920.99	4.89	925.4	921.16	4.24	923.04	919.23	3.81	924.58	917.80	6.78	923.61	917.94	5.67	919.84
3/29/2021	926.46	926.55	923.57	2.98	926.08	921	5.08	925.57	921.13	4.44	923.34	919.25	4.09	924.81	917.86	6.95	923.71	918.13	5.58	919.97
3/30/2021	926.20	926.67	923.74	2.93	926.32	920.97	5.35	925.96	921.16	4.80	923.36	919.33	4.03	925.00	917.99	7.01	924.09	918.05	6.04	920.03
3/31/2021	926.12	926.50	923.63	2.87	926.10	920.98	5.12	925.67	921.14	4.53	923.18	919.25	3.93	924.80	917.82	6.98	923.87	917.97	5.90	919.90
4/1/2021	926.02	926.34	923.56	2.78	925.91	920.97	4.94	925.51	921.16	4.35	923.04	919.20	3.84	924.61	917.77	6.84	923.65	917.91	5.74	919.81
4/2/2021	925.97	926.13	923.43	2.70	925.73	920.98	4.75	925.27	921.15	4.12	922.93	919.21	3.72	924.35	917.76	6.59	923.46	917.91	5.55	919.71
4/3/2021	925.95	925.99	923.43	2.56	925.63	921.02	4.61	925.16	921.16	4.00	922.88	919.23	3.65	924.31	918.10	6.21	923.36	917.97	5.39	919.71
4/4/2021	925.92	925.87	923.35	2.52	925.49	920.99	4.50	925.01	921.12	3.89	922.79	919.24	3.55	924.21	918.20	6.01	923.24	917.98	5.26	919.63
4/5/2021	925.94	925.82	923.34	2.48	925.46	921.01	4.45	924.94	921.13	3.81	922.72	919.22	3.50	924.20	918.02	6.18	923.15	917.94	5.21	919.66
4/6/2021	925.89	925.73	923.34	2.39	925.28	921.02	4.26	924.7	921.15	3.55	922.68	919.21	3.47	924.11	918.14	5.97	923.08	917.92	5.16	919.63
4/7/2021	925.84	925.64	923.27	2.37	925.19	921	4.19	924.65	921.12	3.53	922.60	919.16	3.44	923.94	917.80	6.14	922.95	917.91	5.04	919.55
4/8/2021	925.97	925.86	923.44	2.42	925.57	921	4.57	925.15	921.16	3.99	922.92	919.22	3.70	924.47	918.15	6.32	923.32	917.98	5.34	919.78
4/9/2021	925.94	925.89	923.43	2.46	925.64	921	4.64	925.28	921.12	4.16	922.90	919.26	3.64	924.27	918.09	6.18	923.38	918.00	5.38	919.72
4/10/2021	926.09	925.95	923.43	2.52	925.80	921	4.80	925.44	921.12	4.32	923.04	919.24	3.80	924.62	918.27	6.35	923.50	918.00	5.50	919.80
4/11/2021	925.96	926.12	923.55	2.57	925.92	920.99	4.93	925.6	921.16	4.44	923.07	919.28	3.79	924.59	918.19	6.40	923.62	917.99	5.63	919.83
4/12/2021	925.91	926.01	923.46	2.55	925.66	921	4.66	925.15	921.12	4.03	922.93	919.24	3.69	924.35	918.03	6.32	923.47	917.92	5.55	919.71
4/13/2021	925.86	925.87	923.36	2.51	925.46	921	4.46	924.99	921.12	3.87	922.80	919.25	3.55	924.30	917.86	6.44	923.27	917.83	5.44	919.62
4/14/2021	925.76	925.80	923.32	2.48	925.33	920.99	4.34	924.88	921.12	3.76	922.73	919.41	3.32	924.05	917.90	6.15	923.15	917.85	5.30	919.54
4/15/2021	925.76	925.69	923.30	2.39	925.25	920.99	4.26	924.74	921.15	3.59	922.67	919.45	3.22	924.10	917.94	6.16	923.04	917.87	5.17	919.54
4/16/2021	925.85	925.60	923.32	2.28	925.21	921.01	4.20	924.71	921.15	3.56	922.59	919.60	2.99	924.05	918.03	6.02	922.92	917.94	4.98	919.58
4/17/2021	926.00	925.66	923.36	2.30	925.28	921.03	4.25	924.75	921.16	3.59	922.61	919.91	2.70	924.02	918.13	5.89	922.96	918.14	4.82	919.68
4/18/2021	926.19	925.76	923.50	2.26	925.35	920.98	4.37	924.85	921.15	3.70	922.64	920.13	2.51	923.91	918.27	5.64	923.05	918.41	4.64	919.78
4/19/2021	926.35	925.92	923.74	2.18	925.50	921	4.50	924.99	921.15	3.84	922.68	920.44	2.24	924.09	918.52	5.57	923.17	918.68	4.49	919.98
4/20/2021	926.45	926.03	923.80	2.23	925.59	921.02	4.57	925	921.14	3.86	922.77	920.54	2.23	924.18	918.81	5.37	923.31	918.76	4.55	920.04
4/21/2021	926.40	926.08	923.78	2.30	925.60	920.99	4.61	925.07	921.14	3.93	922.81	920.49	2.32	924.21	918.75	5.46	923.35	918.71	4.64	920.00
4/22/2021	926.43	926.09	923.85	2.24	925.64	921.01	4.63	925.06	921.15	3.91	922.79	920.57	2.22	924.25	918.58	5.67	923.34	918.73	4.61	920.07
4/23/2021	926.44	926.13	923.84	2.29	925.63	920.99	4.64	925.1	921.15	3.95	922.82	920.62	2.20	924.40	918.81	5.59	923.38	918.75	4.63	920.04
4/24/2021	926.45	926.08	923.81	2.27	925.67	921.01	4.66	925.09	921.15	3.94	922.82	920.63	2.19	924.30	918.90	5.40	923.39	918.76	4.63	920.06
4/25/2021	926.46	926.07	923.78	2.29	925.69	921.01	4.68	925.12	921.13	3.99	922.83	920.64	2.19	924.40	918.91	5.49	923.39	918.76	4.63	920.05
4/26/2021	926.35	926.03	923.69	2.34	925.62	920.99	4.63	925.12	921.14	3.98	922.82	920.53	2.29	924.33	918.81	5.52	923.37	918.63	4.74	919.96
4/27/2021	926.27	926.01	923.61	2.40	925.57	920.98	4.59	925.07	921.15	3.92	922.76	920.37	2.39	924.33	918.49	5.84	923.28	918.50	4.78	919.90
4/28/2021	926.24	925.94	923.55	2.39	925.50	920.99	4.51	925	921.14	3.86	922.74	920.38	2.36	924.07	918.30	5.77	923.22	918.46	4.76	919.84
4/29/2021	926.28	925.90	923.57	2.33	925.51	921	4.51	924.98	921.16	3.82	922.72	920.39	2.33	924.19	918.43	5.76	923.20	918.47	4.73	919.88
4/30/2021	926.39	925.94	923.69	2.25	925.56	921	4.56	925	921.16	3.84	922.75	920.63	2.12	924.13	918.73	5.40	923.26	918.70	4.56	920.00
5/1/2021	926.51	926.01	923.87	2.14	925.62	920.99	4.63	925.09	921.16	3.93	922.78	920.79	1.99	924.10	918.72	5.38	923.32	918.88	4.44	920.11
5/2/2021	926.47	926.05	923.85	2.20	925.63	920.97	4.66	925.12	921.15	3.97	922.77	920.74	2.03	924.22	918.65	5.57	923.34	918.80	4.54	920.07
5/3/2021	926.39	926.05	923.74	2.31	925.59	920.98	4.61	925.09	921.14	3.95	922.77	920.59	2.18	924.29	918.67	5.62	923.32	918.67	4.65	920.00
5/4/2021 5/5/2021	926.33 926.34	925.94 925.98	923.64 923.65	2.30	925.53 925.48	920.98 920.97	4.55 4.51	924.99 924.95	921.12 921.14	3.87 3.81	922.77 922.72	920.54 920.52	2.23	924.26 924.30	918.81 918.75	5.45 5.55	923.30 923.27	918.63 918.65	4.67 4.62	919.92 919.94
5/6/2021	926.34	925.98	923.63	2.23	925.48	920.97	4.46	924.93	921.14	3.74	922.72	920.52	2.14	924.30	918.73	5.49	923.27	918.03	4.62	919.94
5/7/2021	926.53	926.00	923.70	2.12	925.59	921.02	4.58	925.03	921.17	3.86	922.72	920.38	1.96	924.08	919.07	5.18	923.23	918.91	4.43	920.00
5/8/2021	926.43	926.01	923.79	2.22	925.60	920.98	4.62	925.06	921.16	3.90	922.74	920.70	2.04	924.28	918.68	5.60	923.31	918.74	4.57	920.04
5/9/2021	926.32	925.93	923.64	2.29	925.52	920.99	4.53	924.98	921.14	3.84	922.76	920.63	2.13	924.28	918.76	5.52	923.30	918.60	4.70	919.95
5/10/2021	926.21	925.88	923.56	2.32	925.45	920.98	4.47	924.93	921.16	3.77	922.72	920.66	2.06	924.18	918.65	5.53	923.21	918.51	4.70	919.84
5/11/2021	926.23	925.80	923.51	2.29	925.42	921	4.42	924.87	921.14	3.73	922.68	920.72	1.96	924.06	918.45	5.61	923.16	918.52	4.64	919.84
5/12/2021	926.27	925.75	923.58	2.17	925.39	920.98	4.41	924.84	921.13	3.71	922.68	920.80	1.88	924.08	918.78	5.30	923.16	918.60	4.56	919.85

Table 5 HCC System Barrier Wall Groundwater Elevations

BNSF Former Maintenance and Fueling Facility Skykomish, Washington Farallon PN: 683-071

						Grour	ndwater Elevation	ns at Piezom	neters (feet l	NAVD88) and Ele	evation Diff	erentials at	Piezometer Pairs	(feet)						
Date	PZ-1	PZ-2S	PZ-2N	Elevation Differential at PZ-2S/PZ-2N	PZ-3S	PZ-3N	Elevation Differential at PZ-3S/PZ-3N	PZ-4S	PZ-4N	Elevation Differential at PZ-4S/PZ-4N	PZ-5S	PZ-5N	Elevation Differential at PZ-5S/PZ-5N	PZ-6S	PZ-6N	Elevation Differential at PZ-6S/PZ-6N	PZ-7S	PZ-7N	Elevation Differential at PZ-7S/PZ-7N	PZ-8
5/13/2021	926.39	925.83	923.69	2.14	925.47	921	4.47	924.9	921.15	3.75	922.70	920.99	1.71	924.15	918.91	5.24	923.19	918.78	4.41	919.97
5/14/2021	926.52	925.96	923.95	2.01	925.53	920.95	4.58	925.03	921.17	3.86	922.71	921.24	1.47	924.25	919.01	5.24	923.27	919.00	4.27	920.06
5/15/2021	926.66	926.05	924.21	1.84	925.63	920.95	4.68	925.09	921.14	3.95	922.74	921.54	1.20	924.26	919.06	5.20	923.35	919.27	4.08	920.23
5/16/2021	926.80	926.18	924.49	1.69	925.72	920.97	4.75	925.2	921.16	4.04	922.81	921.80	1.01	924.43	919.42	5.01	923.46	919.52	3.94	920.38
5/17/2021	926.95	926.29	924.76	1.53	925.84	920.99	4.85	925.21	921.16	4.05	922.87	922.11	0.76	924.35	919.69	4.66	923.56	919.82	3.74	920.57
5/18/2021	926.92	926.34	924.69	1.65	925.81	920.98	4.83	925.2	921.13	4.07	922.91	922.02	0.89	924.39	919.69	4.70	923.64	919.72	3.92	920.52
5/19/2021	926.70	926.35	924.40	1.95	925.80	920.97	4.83	925.24	921.14	4.10	919.06	921.52	-2.46	924.64	919.42	5.22	923.63	919.28	4.35	920.32
5/20/2021	926.51	926.24	924.05	2.19	925.67	920.98	4.69	925.16	921.13	4.03	919.05	921.19	-2.14	924.55	919.14	5.41	923.53	918.94	4.59	920.12
5/21/2021	926.35	926.09	923.85	2.24	925.58	920.99	4.59	925.02	921.17	3.85	919.06	920.97	-1.91	924.46	918.84	5.62	923.40	918.72	4.68	920.02
5/22/2021	926.26	925.98	923.69	2.29	925.47	920.97	4.50	924.94	921.15	3.79	919.04	920.91	-1.87	924.13	918.41	5.72	923.29	918.66	4.63	919.91
5/23/2021	926.29	925.88	923.66	2.22	925.44	921	4.44	924.86	921.14	3.72	919.01	920.93	-1.92	924.28	918.64	5.64	923.22	918.64	4.58	919.92
5/24/2021	926.33	925.83	923.66	2.17	925.41	921	4.41	924.83	921.14	3.69	919.02	921.08	-2.06	924.09	918.45	5.64	923.17	918.70	4.47	919.93
5/25/2021	926.36	925.89	923.76	2.13	925.42	920.96	4.46	924.88	921.13	3.75	919.02	921.19	-2.17	924.15	918.63	5.52	923.20	918.79	4.41	919.96
5/26/2021	926.47	925.95	923.89	2.06	925.50	921	4.50	924.92	921.16	3.76	919.05	921.36	-2.31	924.28	919.08	5.20	923.29	918.98	4.31	920.08
5/27/2021	926.55	925.98	924.02	1.96	925.54	921	4.54	924.95	921.16	3.79	919.02	921.47	-2.45	924.15	918.89	5.26	923.30	919.09	4.21	920.14
5/28/2021	926.85	926.15	924.49	1.66	925.86	921	4.86	925.33	921.13	4.20	919.04	921.94	-2.90	924.69	919.70	4.99	923.64	919.57	4.07	920.47
5/29/2021	926.73	926.39	924.40	1.99	925.94	920.97	4.97	925.43	921.11	4.32	919.01	921.77	-2.76	924.58	919.07	5.51	923.75	919.30	4.45	920.40
5/30/2021	926.66	926.41	924.24	2.17	925.93	921.01	4.92	925.38	921.15	4.23	919.04	921.65	-2.61	924.57	919.20	5.37	923.74	919.14	4.60	920.33
5/31/2021	926.71	926.41	924.31	2.10	925.87	920.98	4.89	925.35	921.13	4.22	919.03	921.67	-2.64	924.51	919.16	5.35	923.69	919.29	4.40	920.34
6/1/2021	927.02	926.44	924.76	1.68	925.95	921.01	4.94	925.37	921.10	4.27	919.02	922.17	-3.15	924.60	919.69	4.91	923.78	919.86	3.92	920.60
6/2/2021	927.36	926.62	925.42	1.20	926.12	921	5.12	925.54	921.14	4.40	919.02	922.65	-3.63	924.76	920.53	4.23	923.90	920.50	3.40	920.98
6/3/2021	927.48	926.81	925.67	1.14	926.22	920.96	5.26	925.63	921.19	4.44	919.01	922.69	-3.68	924.86	920.71	4.15	924.05	920.78	3.27	921.14
6/4/2021	927.37	926.91	925.58	1.33	926.28	921.01	5.27	925.73	921.18	4.55	919.08	922.88	-3.80	924.97	920.66	4.31	924.17	920.57	3.60	921.09
6/5/2021	927.11	926.82	925.17	1.65	926.21	921.01	5.20	925.65	921.18	4.47	919.03	922.14	-3.11	924.99	920.16	4.83	924.04	919.97	4.07	920.78
6/6/2021	926.98	926.73	924.90	1.83	926.15	921.02	5.13	925.58	921.18	4.40	919.00	921.70	-2.70	924.72	919.45	5.27	923.92	919.67	4.25	920.63
6/7/2021	926.74	926.58	924.46	2.12	926.01	921	5.01	925.5	921.14	4.36	919.06	921.42	-2.36	924.82	919.39	5.43	923.88	919.27	4.61	920.36
6/8/2021	926.57	926.44	924.13	2.31	925.91	921.03	4.88	925.36	921.17	4.19	919.04	921.10	-2.06	924.67	919.05	5.62	923.74	918.92	4.82	920.21
6/9/2021	926.43	926.27	923.89	2.38	925.77	921.04	4.73	925.22	921.18	4.04	919.03	921.00	-1.97	924.49	918.63	5.86	923.57	918.77	4.80	920.09
6/10/2021	926.33	926.13	923.75	2.38	925.64	921.03	4.61	925.11	921.17	3.94	919.03	920.79	-1.76	924.40	918.45	5.95	923.44	918.67	4.77	919.98
6/11/2021	926.26	926.02	923.67	2.35	925.55	921.02	4.53	925.03	921.19	3.84	919.01	920.54	-1.53	924.29	918.35	5.94	923.30	918.56	4.74	919.93
6/12/2021	926.19	925.92	923.58	2.34	925.45	921.01	4.44	924.93	921.17	3.76	919.07	920.29	-1.22	924.31	918.77	5.54	923.27	918.56	4.71	919.81
6/13/2021	926.29	925.87	923.67	2.20	925.43	921.03	4.40	924.89	921.19	3.70	919.03	920.37	-1.34	924.15	918.53	5.62	923.20	918.68	4.52	919.92
6/14/2021	926.78	926.02	924.37	1.65	925.76	921.02	4.74	925.25	921.17	4.08	919.00	920.59	-1.59	924.40	919.33	5.07	923.49	919.48	4.01	920.33
6/15/2021	926.86	926.33	924.63	1.70	925.93	921.02	4.91	925.36	921.17	4.19	919.03	921.38	-2.35	924.60	919.63	4.97	923.73	919.58	4.15	920.50
6/16/2021	926.70	926.41	924.37	2.04	925.96	921.04	4.92	925.37	921.17	4.20	919.07	920.37	-1.30	924.65	919.25	5.40	923.78	919.26	4.52	920.34
6/17/2021	926.59	926.35	924.17	2.18	925.85	920.99	4.86	925.31	921.15	4.16	919.00	920.27	-1.27	924.57	919.03	5.54	923.63	919.04	4.59	920.20
6/18/2021	926.57	926.31	924.13	2.18	925.81	920.98	4.83	925.26	921.17	4.09	919.02	920.37	-1.35	924.53	918.88	5.65	923.56	919.04	4.52	920.17
6/19/2021	926.57	926.24	924.11	2.13	925.74	921.01	4.73	925.18	921.16	4.02	919.04	920.67	-1.63	924.39	919.03	5.36	923.54	919.09	4.45	920.16
6/20/2021	926.55	926.20	924.08	2.12	925.74	921.01	4.73	925.15	921.19	3.96	919.03	920.92	-1.89	924.42	918.82	5.60	923.50	919.03	4.47	920.17
6/21/2021	926.61	926.23	924.20	2.03	925.72	920.97	4.75	925.17	921.19	3.98	919.06	921.44	-2.38	924.44	919.32	5.12	923.53	919.22	4.31	920.21
6/22/2021	926.73	926.27	924.36	1.91	925.77	920.99	4.78	925.17	921.18	3.99	919.04	922.42	-3.38	924.38	919.39	4.99	923.55	919.39	4.16	920.34
6/23/2021	926.75	926.29	924.40	1.89	925.77	921	4.77	925.19	921.18	4.01	919.03	922.47	-3.44	924.58	919.56	5.02	923.58	919.38	4.20	920.33
6/24/2021	926.61	926.29	924.27	2.02	925.86	920.96	4.90	925.43	921.17	4.26	919.00	922.49	-3.49	924.37	919.02	5.35	923.55	919.21	4.34	920.21
6/25/2021	926.59	926.20	924.18	2.02	925.69	920.98	4.71	925.15	921.16	3.99	919.03	922.61	-3.58	924.50	919.30	5.20	923.50	919.16	4.34	920.20
6/26/2021	926.64	926.21	924.26	1.95	925.71	921	4.71	925.15	921.19	3.96	919.02	922.72	-3.70	924.30	919.19	5.11	923.50	919.27	4.23	920.24
6/27/2021	926.70	926.22	924.34	1.88	925.78	921.02	4.76	925.22	921.20	4.02	919.04	922.80	-3.76	924.32	919.28	5.04	923.50	919.37	4.13	920.31
6/28/2021	926.70	926.26	924.35	1.91	925.79	921	4.79	925.25	921.17	4.08	919.00	922.84	-3.84	924.40	919.14	5.26	923.52	919.34	4.18	920.29
6/29/2021	926.62	926.28	924.28	2.00	925.80	920.96	4.84	925.35	921.17	4.18	919.02	922.70	-3.68	924.48	919.43	5.05	923.54	919.24	4.30	920.21
6/30/2021	926.52	926.18	924.14	2.04	925.79	920.99	4.80	925.31	921.19	4.12	919.00	922.54	-3.54	924.40	918.82	5.58	923.45	919.05	4.40	920.15
7/1/2021	926.38	926.11	923.95	2.16	925.73	921	4.73	925.26	921.20	4.06	919.04	922.06	-3.02	924.38	918.76	5.62	923.42	918.80	4.62	920.03
7/2/2021	926.20	925.97	923.68	2.29	925.56	920.98	4.58	925.12	921.13	3.99	919.00	922.03	-3.03	924.31	918.56	5.75	923.28	918.54	4.74	919.82

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						Groun	ndwater Elevation	ns at Piezon	neters (feet l	NAVD88) and Ele	evation Diff	erentials at	Piezometer Pairs	(feet)						
Date	PZ-1	PZ-2S	PZ-2N	Elevation Differential at PZ-2S/PZ-2N	PZ-3S	PZ-3N	Elevation Differential at PZ-3S/PZ-3N	PZ-4S	PZ-4N	Elevation Differential at PZ-4S/PZ-4N	PZ-5S	PZ-5N	Elevation Differential at PZ-5S/PZ-5N	PZ-6S	PZ-6N	Elevation Differential at PZ-6S/PZ-6N	PZ-7S	PZ-7N	Elevation Differential at PZ-7S/PZ-7N	PZ-8
7/3/2021	926.07	925.87	923.59	2.28	925.55	920.99	4.56	925.13	921.20	3.93	919.05	921.97	-2.92	924.25	918.57	5.68	923.22	918.46	4.76	919.78
7/4/2021	925.99	925.72	923.45	2.27	925.39	921	4.39	924.95	921.13	3.82	919.00	921.84	-2.84	924.13	918.25	5.88	923.08	918.30	4.78	919.65
7/5/2021	925.90	925.62	923.42	2.20	925.21	920.99	4.22	924.72	921.20	3.52	919.06	921.86	-2.80	924.07	918.41	5.66	922.99	918.32	4.67	919.60
7/6/2021	925.85	925.48	923.34	2.14	925.10	921	4.10	924.6	921.16	3.44	919.04	921.67	-2.63	924.02	918.35	5.67	922.83	918.23	4.60	919.53
7/7/2021	925.79	925.38	923.26	2.12	924.98	920.99	3.99	924.46	921.12	3.34	919.03	921.75	-2.72	923.95	918.29	5.66	922.69	918.15	4.54	919.45
7/8/2021	925.71	925.30	923.21	2.09	924.90	920.96	3.94	924.4	921.11	3.29	919.04	921.70	-2.66	923.86	918.21	5.65	922.59	918.09	4.50	919.38
7/9/2021	925.65	925.25	923.21	2.04	924.87	920.98	3.89	924.37	921.15	3.22	919.04	921.60	-2.56	923.80	918.18	5.62	922.48	918.02	4.46	919.37
7/10/2021	925.58	925.17	923.15	2.02	924.77	920.96	3.81	924.29	921.13	3.16	918.99	921.54	-2.55	923.54	917.83	5.71	922.35	917.91	4.44	919.28
7/11/2021	925.59	925.08	923.14	1.94	924.74	921.01	3.73	924.19	921.08	3.11	919.00	921.53	-2.53	923.61	917.90	5.71	922.30	917.90	4.40	919.29
7/12/2021	925.53	925.07	923.12	1.95	924.69	920.99	3.70	924.21	921.13	3.08	919.01	921.50	-2.49	923.61	917.93	5.68	922.26	917.86	4.40	919.26
7/13/2021	925.47	925.00	923.08	1.92	924.61	920.96	3.65	924.13	921.12	3.01	919.02	921.42	-2.40	923.56	917.91	5.65	922.21	917.82	4.39	919.17
7/14/2021	925.44	924.97	923.08	1.89	924.58	920.97	3.61	924.11	921.14	2.97	919.03	921.44	-2.41	923.58	917.97	5.61	922.18	917.81	4.37	919.17
7/15/2021	925.38	924.93	923.06	1.87	924.57	920.96	3.61	924.13	921.13	3.00	919.01	921.47	-2.46	923.40	917.79	5.61	922.15	917.79	4.36	919.11
7/16/2021	925.36	924.90	923.04	1.86	924.51	920.98	3.53	924.04	921.15	2.89	919.01	921.46	-2.45	923.39	917.78	5.61	922.12	917.77	4.35	919.14
7/17/2021	925.32	924.83	923.01	1.82	924.44	920.99	3.45	923.99	921.14	2.85	919.07	921.41	-2.34	923.40	917.86	5.54	922.13	917.76	4.37	919.06
7/18/2021	925.29	924.77	923.03	1.74	924.43	921	3.43	923.91	921.15	2.76	919.02	921.32	-2.30	923.33	917.82	5.51	922.00	917.65	4.35	919.11
7/19/2021	925.28	924.69	922.97	1.72	924.38	921.02	3.36	923.82	921.14	2.68	919.03	921.40	-2.37	923.23	917.66	5.57	921.95	917.68	4.27	919.08
7/20/2021	925.20	924.65	922.92	1.73	924.29	920.97	3.32	923.79	921.11	2.68	919.05	921.41	-2.36	923.20	917.82	5.38	921.94	917.68	4.26	918.95
7/21/2021	925.21	924.61	922.95	1.66	924.30	921.03	3.27	923.76	921.15	2.61	918.99	921.36	-2.37	923.21	917.78	5.43	921.85	917.59	4.26	919.02
7/22/2021	925.21	924.58	922.93	1.65	924.30	920.98	3.25	923.75	921.13	2.61	919.06	921.30	-2.35	923.21	917.78	5.31	921.86	917.59	4.22	919.02
7/23/2021	925.13	924.50	922.93	1.63	924.23	920.98	3.18	923.61	921.14	2.50	919.05	921.41	-2.36	923.10	917.83	5.30	921.79	917.61	4.18	918.91
7/24/2021	925.13	924.30	922.87	1.58	924.18	921.03	3.15	923.61	921.11	2.46	919.05	921.41	-2.35	923.07	917.77	5.30	921.79	917.61	4.15	918.95
7/25/2021	925.09	924.45	922.90	1.54	924.18	921.03	3.12	923.6	921.13	2.43	919.03	921.40	-2.35	923.02	917.72	5.43	921.73	917.55	4.13	918.93
7/26/2021				1.56			3.08	923.57		2.43		1	-2.33		917.36	5.22			4.11	918.93
7/20/2021	925.02	924.44	922.88	1.53	924.08	921	3.00		921.16	2.41	919.05	921.38	-2.28	923.00		5.25	921.65	917.52	4.13	
	925.03	924.35	922.82		924.00	921		923.48	921.10		919.03	921.31		922.97	917.72		921.58	917.50		918.80
7/28/2021	924.95	924.35	922.85	1.50	923.98	920.98	3.00	923.48	921.14	2.34	919.01	921.29	-2.28	922.90	917.57	5.33	921.49	917.45	4.04	918.77
7/29/2021	924.93	924.33	922.86	1.47	923.95	920.99	2.96	923.45	921.15	2.30	919.01	921.30	-2.29	922.80	917.40	5.40	921.38	917.44	3.94	918.74
7/30/2021	924.88	924.26	922.84	1.42	923.88	920.98	2.90	923.37	921.13	2.24	919.03	921.33	-2.30	922.75	917.62	5.13	921.37	917.45	3.92	918.69
7/31/2021	924.88	924.21	922.82	1.39	923.88	921.01	2.87	923.29	921.15	2.14	919.03	921.34	-2.31	922.67	917.52	5.15	921.27	917.44	3.83	918.74
8/1/2021	924.88	924.17	922.81	1.36	923.84	921.02	2.82	923.25	921.16	2.09	919.03	921.33	-2.30	922.62	917.51	5.11	921.24	917.44	3.80	918.73
8/2/2021	924.85	924.11	922.76	1.35	923.75	921.01	2.74	923.19	921.12	2.07	919.00	921.30	-2.30	922.56	917.36	5.20	921.14	917.42	3.72	918.65
8/3/2021	924.86	924.09	922.78	1.31	923.76	921.03	2.73	923.14	921.15	1.99	919.01	921.27	-2.26	922.41	917.35	5.06	921.10	917.41	3.69	918.67
8/4/2021	924.79	924.11	922.80	1.31	923.89	920.98	2.91	923.47	921.14	2.33	918.99	921.21	-2.22	922.58	917.46	5.12	921.13	917.43	3.70	918.69
8/5/2021	924.80	924.05	922.80	1.25	923.80	920.99	2.81	923.26	921.12	2.14	918.99	921.22	-2.23	922.65	917.51	5.14	921.09	917.40	3.69	918.64
8/6/2021	924.72	924.02	922.76	1.26	923.66	920.99	2.67	923.1	921.16	1.94	918.99	921.25	-2.26	922.31	917.34	4.97	920.96	917.36	3.60	918.61
8/7/2021	924.72	923.97	922.74	1.23	923.60	920.99	2.61	923.01	921.14	1.87	919.05	921.27	-2.22	922.34	917.49	4.85	920.92	917.37	3.55	918.58
8/8/2021	924.82	923.93	922.74	1.19	923.61	921	2.61	922.98	921.13	1.85	919.02	921.24	-2.22	922.27	917.48	4.79	920.88	917.42	3.46	918.61
8/9/2021	924.84	924.03	922.78	1.25	923.68	921.01	2.67	923.07	921.18	1.89	919.03	921.18	-2.15	922.40	917.49	4.91	920.93	917.36	3.57	918.65
8/10/2021	924.73	924.00	922.73	1.27	923.58	920.96	2.62	923.05	921.12	1.93	919.00	921.20	-2.20	922.34	917.37	4.97	920.87	917.34	3.53	918.52
8/11/2021	924.67	923.95	922.73	1.22	923.58	920.96	2.62	923.04	921.14	1.90	919.06	921.21	-2.15	922.26	917.37	4.89	920.84	917.31	3.53	918.53
8/12/2021	924.66	923.88	922.71	1.17	923.57	921	2.57	923.05	921.13	1.92	919.02	921.19	-2.17	922.23	917.42	4.81	920.78	917.30	3.48	918.70
8/13/2021	924.58	923.84	922.70	1.14	923.48	920.97	2.51	922.96	921.13	1.83	919.02	921.12	-2.10	922.29	917.39	4.90	920.68	917.26	3.42	918.24
8/14/2021	924.57	923.80	922.66	1.14	923.59	920.99	2.60	923.16	921.13	2.03	919.02	921.09	-2.07	922.11	917.41	4.70	920.69	917.26	3.43	918.68
8/15/2021	924.51	923.77	922.63	1.14	923.57	920.99	2.58	923.16	921.13	2.03	919.00	921.03	-2.03	922.05	917.23	4.82	920.63	917.23	3.40	918.55
8/16/2021	924.46	923.71	922.60	1.11	923.32	920.97	2.35	922.77	921.12	1.65	919.00	921.01	-2.01	921.88	917.22	4.66	920.43	917.16	3.27	918.19
8/17/2021	924.45	923.64	922.59	1.05	923.22	921	2.22	922.63	921.13	1.50	919.02	921.02	-2.00	922.00	917.37	4.63	920.33	917.15	3.18	918.30

			1	 		Groun		is at Piezon	icters (feet l	NAVD88) and Ele	evauon Diff	erenuais at		(reet)	I	 		I		
Date	PZ-1	PZ-2S	PZ-2N	Elevation Differential at PZ-2S/PZ-2N	PZ-3S	PZ-3N	Elevation Differential at PZ-3S/PZ-3N	PZ-4S	PZ-4N	Elevation Differential at PZ-4S/PZ-4N	PZ-5S	PZ-5N	Elevation Differential at PZ-5S/PZ-5N	PZ-6S	PZ-6N	Elevation Differential at PZ-6S/PZ-6N	PZ-7S	PZ-7N	Elevation Differential at PZ-7S/PZ-7N	PZ-8
8/18/2021	924.43	923.55	922.54	1.01	923.12	921.01	2.11	922.5	921.11	1.39	919.05	921.02	-1.97	921.76	917.33	4.43	920.23	917.15	3.08	918.17
8/19/2021	924.35	923.51	922.52	0.99	923.06	920.96	2.10	922.46	921.11	1.35	918.99	920.98	-1.99	921.67	917.18	4.49	920.05	917.07	2.98	918.08
8/20/2021	924.35	923.46	922.53	0.93	923.04	921	2.04	922.41	921.15	1.26	918.97	920.97	-2.00	921.54	917.14	4.40	919.95	917.06	2.89	918.09
8/21/2021	924.28	923.44	922.49	0.95	922.93	920.96	1.97	922.34	921.12	1.22	919.01	920.96	-1.95	921.48	917.15	4.33	919.88	917.04	2.84	918.00
8/22/2021	924.31	923.39	922.50	0.89	922.94	921.01	1.93	922.28	921.15	1.13	919.00	921.00	-2.00	921.35	917.15	4.20	919.81	917.07	2.74	918.03
8/23/2021	924.34	923.32	922.45	0.87	922.88	921.02	1.86	922.2	921.09	1.11	918.97	920.97	-2.00	921.33	917.13	4.20	919.74	917.02	2.72	917.98
8/24/2021	924.30	923.32	922.46	0.86	922.86	921.02	1.84	922.18	921.12	1.06	918.98	920.98	-2.00	921.26	917.18	4.08	919.69	917.00	2.69	917.97
8/25/2021	924.22	923.31	922.44	0.87	922.78	920.97	1.81	922.17	921.10	1.07	919.05	921.06	-2.01	921.21	917.22	3.99	919.70	917.12	2.58	917.86
8/26/2021	924.21	923.26	922.39	0.87	922.74	921	1.74	922.11	921.10	1.01	919.06	921.08	-2.02	921.20	917.24	3.96	919.64	917.14	2.50	917.85
8/27/2021	924.23	923.18	922.37	0.81	922.73	921.02	1.71	922	921.10	0.90	919.05	921.09	-2.04	921.13	917.25	3.88	919.56	917.13	2.43	917.83
8/28/2021	924.21	923.25	922.39	0.86	922.74	920.99	1.75	922.09	921.14	0.95	919.04	921.08	-2.04	921.10	917.24	3.86	919.52	917.12	2.40	917.84
8/29/2021	924.21	923.18	922.33	0.85	922.70	921.01	1.69	921.97	921.09	0.88	919.03	921.08	-2.05	921.01	917.21	3.80	919.45	917.11	2.34	917.80
8/30/2021	924.15	923.20	922.35	0.85	922.69	921	1.69	922	921.15	0.85	919.04	921.08	-2.04	921.02	917.22	3.80	919.42	917.12	2.30	917.80
8/31/2021	924.09	923.15	922.31	0.84	922.59	920.96	1.63	921.96	921.10	0.86	919.00	921.03	-2.03	921.02	917.22	3.80	919.33	917.07	2.26	917.69
9/1/2021	924.15	923.11	922.29	0.82	922.63	921.04	1.59	921.87	921.12	0.75	918.99	921.02	-2.03	920.97	917.18	3.79	919.20	917.06	2.14	917.75
9/2/2021	924.13	923.08	922.29	0.79	922.58	921.03	1.55	921.84	921.10	0.74	918.99	921.06	-2.07	920.84	917.20	3.64	919.16	917.09	2.07	917.64
9/3/2021	924.08	923.08	922.29	0.79	922.55	921.03	1.52	921.82	921.14	0.68	919.03	921.11	-2.08	920.79	917.21	3.58	919.11	917.12	1.99	917.59
9/4/2021	923.99	923.02	922.24	0.78	922.46	920.98	1.48	921.77	921.07	0.70	919.02	921.06	-2.04	920.80	917.24	3.56	919.04	917.09	1.95	917.45
9/5/2021	923.96	922.99	922.22	0.77	922.42	920.98	1.44	921.72	921.07	0.65	919.01	921.06	-2.05	920.85	917.23	3.62	918.95	917.08	1.87	917.41
9/6/2021	923.98	922.92	922.20	0.72	922.40	921.04	1.36	921.62	921.08	0.54	919.00	921.06	-2.06	920.61	917.20	3.41	918.83	917.06	1.77	917.39
9/7/2021	923.94	922.90	922.20	0.70	922.36	921.03	1.33	921.58	921.12	0.46	919.05	921.11	-2.06	920.64	917.25	3.39	918.82	917.12	1.70	917.35
9/8/2021	923.89	922.87	922.20	0.67	922.31	921	1.31	921.56	921.15	0.41	919.00	921.11	-2.11	920.38	917.23	3.15	918.70	917.11	1.59	917.27
9/9/2021	923.88	922.86	922.17	0.69	922.49	921.02	1.47	921.97	921.16	0.81	918.99	921.06	-2.07	920.62	917.22	3.40	918.78	917.06	1.72	917.29
9/10/2021	923.84	922.82	922.18	0.64	922.28	921.01	1.27	921.53	921.10	0.43	919.01	921.10	-2.09	920.28	917.22	3.06	918.61	917.11	1.50	917.23
9/11/2021	923.82	922.77	922.15	0.62	922.19	920.99	1.20	921.43	921.09	0.34	919.02	921.12	-2.10	920.32	917.23	3.09	918.56	917.12	1.44	917.15
9/12/2021	923.86	922.69	922.13	0.56	922.14	921.03	1.11	921.29	921.06	0.23	918.98	921.06	-2.08	920.28	917.21	3.07	918.46	917.05	1.41	917.14
9/13/2021	923.85	922.67	922.14	0.53	922.14	921.04	1.10	921.25	921.08	0.17	919.03	921.07	-2.04	920.26	917.26	3.00	918.47	917.07	1.40	917.15
9/14/2021	923.76	922.67	922.11	0.56	922.06	921	1.06	921.24	921.08	0.16	919.04	921.11	-2.07	920.15	917.27	2.88	918.46	917.13	1.33	917.05
9/15/2021	923.78	922.63	922.10	0.53	922.04	920.97	1.07	921.21	921.07	0.14	919.00	921.11	-2.11	920.04	917.21	2.83	918.38	917.10	1.28	917.05
9/16/2021	923.83	922.69	922.15	0.54	922.06	920.97	1.09	921.26	921.11	0.15	919.04	921.11	-2.07	920.11	917.27	2.84	918.46	917.11	1.35	917.07
9/17/2021	923.85	922.69	922.17	0.52	922.13	921	1.13	921.25	921.09	0.16	918.99	921.07	-2.08	920.10	917.20	2.90	918.41	917.05	1.36	917.17
9/18/2021	924.57	923.13	922.45	0.68	923.00	920.99	2.01	922.39	921.05	1.34	919.03	921.11	-2.08	921.08	917.48	3.60	919.42	917.42	2.00	917.94
9/19/2021	925.06	923.85	922.81	1.04	923.67	920.99	2.68	922.96	921.02	1.94	919.04	921.08	-2.04	921.91	917.76	4.15	920.21	917.59	2.62	918.44
9/20/2021	925.62	924.88	923.26	1.62	924.80	921.03	3.77	924.17	921.08	3.09	919.01	921.12	-2.11	923.08	917.95	5.13	921.32	917.91	3.41	919.08
9/21/2021	925.56	925.37	923.24	2.13	924.83	920.98	3.85	924.16	921.01	3.15	919.05	921.14	-2.09	923.52	917.86	5.66	921.86	917.82	4.04	919.04
9/22/2021	925.38	925.32	923.15	2.17	924.75	920.97	3.78	924.17	921.01	3.16	919.03	921.11	-2.08	923.69	917.75	5.94	921.95	917.61	4.34	918.96
9/23/2021	925.28	925.18	923.11	2.07	924.69	921.03	3.66	924.07	921.09	2.98	919.05	921.15	-2.10	923.65	917.69	5.96	921.91	917.51	4.40	918.95
9/24/2021	925.12	925.04	923.02	2.02	924.54	920.98	3.56	923.98	921.07	2.91	919.03	921.18	-2.15	923.49	917.43	6.06	921.75	917.44	4.31	918.80
9/25/2021	925.03	924.88	922.98	1.90	924.41	920.99	3.42	923.85	921.08	2.77	919.02	921.15	-2.13	923.45	917.47	5.98	921.61	917.33	4.28	918.73
9/26/2021	924.87	924.65	922.86	1.79	924.21	920.98	3.23	923.66	921.02	2.64	919.05	921.18	-2.13	923.38	917.50	5.88	921.49	917.33	4.16	918.59
9/27/2021	925.09	924.74	922.94	1.80	924.49	920.97	3.52	924.03	921.05	2.98	919.01	921.18	-2.17	923.45	917.36	6.09	921.66	917.46	4.20	918.81
9/28/2021	925.48	925.06	923.10	1.96	924.76	920.99	3.77	924.21	921.04	3.17	919.04	921.18	-2.14	923.72	917.75	5.97	922.02	917.77	4.25	919.10
9/29/2021	925.90	925.73	923.35	2.38	925.28	920.98	4.30	924.76	921.02	3.74	919.00	921.26	-2.26	924.09	917.82	6.27	922.59	918.04	4.55	919.45
9/30/2021	925.98	925.93	923.39	2.54	925.43	921.01	4.42	924.8	921.07	3.73	919.03	921.22	-2.19	924.26	917.88	6.38	922.81	917.96	4.85	919.51
10/1/2021	926.19	926.22	923.53	2.69	925.73	921.01	4.72	925.22	921.01	4.21	919.01	921.47	-2.46	924.55	918.02	6.53	923.35	918.26	5.09	919.73
10/2/2021	926.02	926.22	923.43	2.79	925.72	920.98	4.74	925.32	921.06	4.26	919.03	921.31	-2.28	924.53	918.10	6.43	923.31	918.06	5.25	919.60

						Groui	ndwater Elevation	ns at Piezon	neters (feet l	NAVD88) and Ele	evation Diff	erentials at	Piezometer Pairs	(feet)						
Date	PZ-1	PZ-2S	PZ-2N	Elevation Differential at PZ-2S/PZ-2N	PZ-3S	PZ-3N	Elevation Differential at PZ-3S/PZ-3N	PZ-4S	PZ-4N	Elevation Differential at PZ-4S/PZ-4N	PZ-5S	PZ-5N	Elevation Differential at PZ-5S/PZ-5N	PZ-6S	PZ-6N	Elevation Differential at PZ-6S/PZ-6N	PZ-7S	PZ-7N	Elevation Differential at PZ-7S/PZ-7N	PZ-8
10/3/2021	925.84	926.05	923.31	2.74	925.60	920.98	4.62	925.25	921.06	4.19	919.04	921.26	-2.22	924.43	917.94	6.49	923.14	917.91	5.23	919.48
10/4/2021	925.69	925.86	923.20	2.66	925.46	920.98	4.48	925.11	921.05	4.06	919.04	921.23	-2.19	924.34	917.96	6.38	922.92	917.80	5.12	919.33
10/5/2021	925.57	925.66	923.11	2.55	925.24	921	4.24	924.76	921.02	3.74	919.02	921.25	-2.23	924.12	917.66	6.46	922.63	917.71	4.92	919.20
10/6/2021	925.47	925.49	923.10	2.39	925.04	921.01	4.03	924.48	921.08	3.40	918.98	921.20	-2.22	923.98	917.58	6.40	922.37	917.60	4.77	919.20
10/7/2021	925.48	925.36	923.07	2.29	924.94	921.01	3.93	924.37	921.08	3.29	919.02	921.23	-2.21	923.89	917.87	6.02	922.30	917.65	4.65	919.17
10/8/2021	925.41	925.27	923.05	2.22	924.84	921.01	3.83	924.27	921.07	3.20	918.99	921.24	-2.25	923.74	917.50	6.24	922.16	917.61	4.55	919.10
10/9/2021	925.33	925.15	923.01	2.14	924.75	921.01	3.74	924.17	921.08	3.09	919.04	921.25	-2.21	923.67	917.72	5.95	922.09	917.58	4.51	919.02
10/10/2021	925.46	925.15	923.04	2.11	924.99	921.02	3.97	924.56	921.09	3.47	919.02	921.25	-2.23	923.87	917.81	6.06	922.23	917.65	4.58	919.15
10/11/2021	925.59	925.41	923.10	2.31	925.20	920.98	4.22	924.83	921.05	3.78	919.01	921.24	-2.23	924.05	918.00	6.05	922.47	917.78	4.69	919.24
10/12/2021	925.59	925.53	923.12	2.41	925.28	920.97	4.31	924.89	921.05	3.84	918.98	921.23	-2.25	924.07	917.68	6.39	922.52	917.73	4.79	919.23
10/13/2021	925.55	925.52	923.15	2.37	925.25	920.99	4.26	924.87	921.10	3.77	919.01	921.25	-2.24	924.08	917.96	6.12	922.54	917.73	4.81	919.24
10/14/2021	925.54	925.46	923.13	2.33	925.20	921.01	4.19	924.81	921.11	3.70	919.00	921.28	-2.28	923.99	917.72	6.27	922.48	917.73	4.75	919.23
No data from 10/1	15 to 11/3																			
11/4/2021	926.43	926.57	923.58	2.99	926.17	921.01	5.16	925.66	921.15	4.51	918.99	921.76	-2.77	924.94	918.33	6.61	923.76	918.41	5.35	919.96
11/5/2021	926.68	926.80	924.04	2.76	926.43	921	5.43	925.99	921.14	4.85	918.96	922.31	-3.35	925.17	918.48	6.69	924.09	918.96	5.13	920.35
11/6/2021	926.54	926.74	923.92	2.82	926.25	920.99	5.26	925.75	921.14	4.61	918.97	922.06	-3.09	924.98	918.36	6.62	923.92	918.71	5.21	920.15
11/7/2021	926.53	926.83	923.89	2.94	926.33	920.98	5.35	925.87	921.16	4.71	918.93	921.95	-3.02	925.06	918.09	6.97	923.94	918.59	5.35	920.18
11/8/2021	926.54	926.91	923.95	2.96	926.46	920.98	5.48	926.01	921.14	4.87	918.94	921.90	-2.96	925.17	918.01	7.16	924.08	918.53	5.55	920.20
11/9/2021	926.47	926.78	923.86	2.92	926.26	920.99	5.27	925.78	921.17	4.61	918.94	921.80	-2.86	925.02	918.26	6.76	923.85	918.42	5.43	920.09
11/10/2021	926.58	926.96	923.96	3.00	926.55	921.02	5.53	926.12	921.15	4.97	918.94	921.84	-2.90	925.28	918.15	7.13	924.13	918.47	5.66	920.29
11/11/2021	926.56	926.88	923.90	2.98	926.42	921	5.42	925.96	921.12	4.84	918.93	921.83	-2.90	925.16	918.05	7.11	924.00	918.45	5.55	920.18
11/12/2021	928.98	928.00	926.66	1.34	928.15	922.7	5.45	927.63	923.25	4.38	918.95	926.47	-7.52	926.47	922.69	3.78	925.64	923.03	2.61	922.61
11/13/2021	928.56	928.51	926.59	1.92	927.97	921.86	6.11	927.36	922.28	5.08	918.94	925.28	-6.34	926.52	921.51	5.01	925.71	921.85	3.86	922.53
11/14/2021	930.19	929.07	927.68	1.39	929.13	924.63	4.50	928.15	925.10	3.05	918.92	928.05	-9.13	927.66	924.28	3.38	926.86	924.69	2.17	924.57
11/15/2021	929.66	929.11	927.33	1.78	928.93	923.62	5.31	927.91	924.00	3.91	918.93	927.01	-8.08	927.39	923.14	4.25	926.63	923.59	3.04	923.78
11/16/2021	928.67	928.96	926.52	2.44	928.59	921.69	6.90	927.8	922.07	5.73	918.94	925.11	-6.17	927.08	921.38	5.70	926.27	921.72	4.55	922.56
11/17/2021	927.75	928.61	925.64	2.97	928.01	920.95	7.06	927.42	921.15	6.27	918.92	923.59	-4.67	926.39	919.91	6.48	925.55	920.26	5.29	921.51
11/18/2021	927.28	928.20	924.93	3.27	927.55	920.99	6.56	927.06	921.17	5.89	918.91	922.88	-3.97	925.91	919.14	6.77	925.00	919.52	5.48	920.97
11/19/2021	927.03	927.83	924.48	3.35	927.20	920.98	6.22	926.78	921.17	5.61	918.96	922.49	-3.53	925.65	918.86	6.79	924.69	919.17	5.52	920.65
11/20/2021	926.81	927.47	924.17	3.30	926.88	921.02	5.86	926.43	921.14	5.29	918.94	922.21	-3.27	925.40	918.42	6.98	924.39	918.86	5.53	920.42
11/21/2021	926.61	927.16	923.95	3.21	926.56	920.99	5.57	926.1	921.16	4.94	918.97	922.03	-3.06	925.15	918.32	6.83	924.11	918.66	5.45	920.20
11/22/2021	926.45	926.86	923.79	3.07	926.24	920.98	5.26	925.79	921.16	4.63	918.93	921.85	-2.92	924.94	918.15	6.79	923.81	918.46	5.35	920.01
11/23/2021	926.50	926.63	923.71	2.92	926.18	921	5.18	925.7	921.15	4.55	918.96	921.85	-2.89	924.88	918.37	6.51	923.71	918.45	5.26	920.02
11/24/2021	926.33	926.47	923.68	2.79	926.01	921.01	5.00	925.52	921.12	4.40	918.93	921.77	-2.84	924.80	918.26	6.54	923.60	918.35	5.25	919.92
11/25/2021	926.28	926.35	923.58	2.77	925.88	921.01	4.87	925.36	921.11	4.25	918.93	921.72	-2.79	924.61	917.90	6.71	923.46	918.30	5.16	919.84
11/26/2021	927.13	927.00	924.49	2.51	926.81	921	5.81	926.35	921.13	5.22	918.95	922.72	-3.77	925.37	919.31	6.06	924.27	919.35	4.92	920.67
11/27/2021	927.11	927.35	924.75	2.60	926.93	920.98	5.95	926.5	921.14	5.36	918.97	922.81	-3.84	925.56	919.39	6.17	924.63	919.44	5.19	920.79
11/28/2021	928.45	928.19	926.37	1.82	927.85	921.79	6.06	927.31	922.15	5.16	918.93	925.18	-6.25	926.40	921.72	4.68	925.58	921.76	3.82	922.33
11/29/2021	928.07	928.27	926.07	2.20	927.79	920.98	6.81	927.21	921.35	5.86	918.93	924.35	-5.42	926.29	920.62	5.67	925.45	921.01	4.44	921.88
11/30/2021	927.90	928.16	925.69	2.47	927.72	921	6.72	927.15	921.14	6.01	918.97	923.94	-4.97	926.18	920.68	5.50	925.32	920.61	4.71	921.58
12/1/2021	927.72	928.11	925.61	2.50	927.58	921	6.58	927.05	921.16	5.89	918.95	923.70	-4.75	926.09	920.17	5.92	925.20	920.36	4.84	921.44
12/2/2021	927.39	927.91	925.11	2.80	927.29	921	6.29	926.78	921.15	5.63	918.95	923.12	-4.17	925.80	919.56	6.24	924.85	919.77	5.08	921.01
12/3/2021	927.04	927.66	924.60	3.06	926.98	920.96	6.02	926.51	921.15	5.36	918.94	922.66	-3.72	925.51	918.88	6.63	924.57	919.32	5.25	920.68
12/4/2021	926.90	927.37	924.25	3.12	926.72	920.98	5.74	926.23	921.14	5.09	918.95	922.39	-3.44	925.28	918.80	6.48	924.30	919.07	5.23	920.44
12/5/2021	926.71	927.19	924.09	3.10	926.64	920.97	5.67	926.25	921.15	5.10	918.94	922.13	-3.19	925.17	918.30	6.87	924.20	918.82	5.38	920.32
12/6/2021	926.55	926.99	923.92	3.07	926.44	920.96	5.48	926.03	921.15	4.88	918.94	921.95	-3.01	925.15	918.37	6.78	924.02	918.63	5.39	920.15

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						Grour	ndwater Elevation	ns at Piezom	neters (feet !	NAVD88) and Ele	evation Diffe	erentials at	Piezometer Pairs	(feet)						
Date	PZ-1	PZ-2S	PZ-2N	Elevation Differential at PZ-2S/PZ-2N	PZ-3S	PZ-3N	Elevation Differential at PZ-3S/PZ-3N	PZ-4S	PZ-4N	Elevation Differential at PZ-4S/PZ-4N	PZ-5S	PZ-5N	Elevation Differential at PZ-5S/PZ-5N	PZ-6S	PZ-6N	Elevation Differential at PZ-6S/PZ-6N	PZ-7S	PZ-7N	Elevation Differential at PZ-7S/PZ-7N	PZ-8
12/7/2021	926.50	926.78	923.83	2.95	926.29	920.97	5.32	925.89	921.17	4.72	918.95	921.89	-2.94	924.98	918.53	6.45	923.87	918.57	5.30	920.09
12/8/2021	926.68	927.06	924.01	3.05	926.62	920.96	5.66	926.28	921.17	5.11	918.97	922.02	-3.05	925.28	918.74	6.54	924.16	918.78	5.38	920.35
12/9/2021	926.58	927.01	924.02	2.99	926.54	920.96	5.58	926.16	921.14	5.02	918.95	921.96	-3.01	925.20	918.39	6.81	924.18	918.68	5.50	920.24
12/10/2021	926.49	926.85	923.86	2.99	926.37	920.96	5.41	925.96	921.14	4.82	918.97	921.83	-2.86	925.08	918.47	6.61	924.02	918.55	5.47	920.11
12/11/2021	927.14	927.55	924.53	3.02	927.49	920.95	6.54	927.12	921.15	5.97	918.96	922.11	-3.15	925.85	918.52	7.33	924.78	919.11	5.67	920.79
12/12/2021	927.02	927.85	924.69	3.16	927.45	920.95	6.50	927.08	921.15	5.93	918.94	922.18	-3.24	926.04	919.02	7.02	925.11	918.98	6.13	920.78
12/13/2021	926.83	927.63	924.23	3.40	927.13	920.98	6.15	926.68	921.14	5.54	918.96	921.89	-2.93	925.68	918.65	7.03	924.73	918.69	6.04	920.50
12/14/2021	926.60	927.35	923.97	3.38	926.77	920.97	5.80	926.37	921.12	5.25	918.95	921.73	-2.78	925.36	918.21	7.15	924.35	918.48	5.87	920.23
12/15/2021	926.45	926.99	923.78	3.21	926.52	921.02	5.50	926.05	921.11	4.94	918.91	921.60	-2.69	925.11	917.90	7.21	924.03	918.33	5.70	920.09
12/16/2021	926.28	926.68	923.65	3.03	926.20	921	5.20	925.7	921.12	4.58	918.92	921.52	-2.60	924.85	917.86	6.99	923.75	918.22	5.53	919.93
12/17/2021	926.10	926.40	923.52	2.88	925.91	920.98	4.93	925.44	921.09	4.35	918.90	921.42	-2.52	924.67	917.85	6.82	923.51	918.10	5.41	919.75
12/18/2021	926.11	926.22	923.48	2.74	925.79	920.97	4.82	925.31	921.09	4.22	918.93	921.36	-2.43	924.58	917.93	6.65	923.39	918.13	5.26	919.70
12/19/2021	926.49	926.67	923.95	2.72	926.43	921.02	5.41	925.96	921.11	4.85	918.90	921.63	-2.73	925.07	918.18	6.89	923.96	918.35	5.61	920.17
12/20/2021	926.30	926.63	923.81	2.82	926.26	921.01	5.25	925.77	921.14	4.63	918.97	921.57	-2.60	924.92	918.11	6.81	923.87	918.28	5.59	920.02
12/21/2021	926.14	926.48	923.64	2.84	926.00	920.95	5.05	925.53	921.14	4.39	918.93	921.41	-2.48	924.75	918.00	6.75	923.58	918.10	5.48	919.83
12/22/2021	926.54	926.73	923.77	2.96	926.21	920.96	5.25	925.73	921.10	4.63	918.93	921.57	-2.64	924.86	918.07	6.79	923.71	918.36	5.35	920.05
12/23/2021	926.85	927.18	924.20	2.98	926.82	920.98	5.84	926.42	921.13	5.29	918.89	921.78	-2.89	925.41	918.32	7.09	924.28	918.55	5.73	920.43
12/24/2021	926.68	927.19	924.11	3.08	926.79	921.01	5.78	926.35	921.08	5.27	918.96	921.74	-2.78	925.43	918.34	7.09	924.48	918.52	5.96	920.34
12/25/2021	926.49	926.99	923.88	3.11	926.61	920.98	5.63	926.24	921.07	5.17	918.95	921.65	-2.70	925.19	918.19	7.00	924.22	918.39	5.83	920.14
12/26/2021	926.37	926.77	923.71	3.06	926.41	921.01	5.40	926	921.08	4.92	918.95	921.53	-2.58	925.00	918.08	6.92	923.96	918.26	5.70	920.01
12/27/2021	926.19	926.52	923.55	2.97	926.13	920.99	5.14	925.68	921.07	4.61	918.94	921.41	-2.47	924.78	917.95	6.83	923.70	918.12	5.58	919.86
12/28/2021	926.05	926.27	923.45	2.82	925.83	920.98	4.85	925.36	921.08	4.28	918.95	921.35	-2.40	924.55	917.89	6.66	923.43	918.04	5.39	919.71
12/29/2021	925.98	926.06	923.38	2.68	925.72	921.01	4.71	925.28	921.09	4.19	918.92	921.23	-2.31	924.45	917.88	6.57	923.26	917.94	5.32	919.66
12/30/2021	925.83	925.91	923.33	2.58	925.56	920.99	4.57	925.11	921.12	3.99	918.97	921.25	-2.28	924.29	917.92	6.37	923.15	917.95	5.20	919.57
12/31/2021	925.72	925.70	923.23	2.47	925.30	920.96	4.34	924.83	921.07	3.76	918.96	921.19	-2.23	924.10	917.82	6.28	922.91	917.89	5.02	919.45
Average Elevation	on Differenti	al		2.21			4.38			3.69			-0.25			5.78			4.61	
Maximum Eleva	tion Differe	ntial		3.70			7.23			6.39			4.48			7.66			6.52	

NOTES

Groundwater elevations are measured using dedicated water-level transducers installed in the piezometers and are referenced to North American Vertical Datum of 1988 (NAVD88).

*Data not available due to power outage that shut down the computer and its datalogging capabilities. The computer was restarted during the subsequent operations and maintenance events.

HCC = Hydraulic Control and Containment

Table 6
Stabilized Field Parameter Values at HCC System Monitoring Wells
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington

Monitoring Well	Sample Date	Sample Identification	Dissolved Oxygen (milligrams per liter)	Oxidation-Reduction Potential (millivolts)	pH (Standard Units)	Specific Conductivity (mS/cm)	Temperature (degrees Celsius)
	3/25/2021	GW-1-032521	5.83	183.6	5.93	0.132	7.4
GW-1	6/30/2021	GW-1-063021	1.20	-97.7	8.42	0.103	15.7
GW-I	9/22/2021	GW-1-092221	1.41	86.5	6.42	0.118	13.1
	12/15/2021	GW-1-121521	2.94	106.3	6.17	0.135	7.8
	3/25/2021	GW-2-032521	3.26	236.8	6.30	0.088	6.8
GW-2	6/30/2021	GW-2-063021	1.79	-83.7	8.58	0.099	13.7
GW-2	9/22/2021	GW-2-092221	1.68	88.3	6.16	0.178	12.3
	12/15/2021	GW-2-121521	6.12	100.6	6.03	0.074	7.9
	3/26/2021	GW-3-032621	2.12	185.7	5.09	0.125	6.6
GW-3	6/29/2021	GW-3-062921	4.20	-11.4	5.63	0.111	17.5
GW-3	9/22/2021	GW-3-092221	4.10	191.0	5.91	0.129	12.9
	12/15/2021	GW-3-121521	V	Vater level low; sample co	ollected prior to well g	going dry during purging	
	3/25/2021	GW-4-032521	2.84	100.4	6.93	0.124	7.5
GW-4	6/30/2021	GW-4-063021	6.49	7.7	6.77	0.083	11.0
GW-4	9/22/2021	GW-4-092221	7.33	4.2	6.40	0.175	12.2
	12/15/2021	GW-4-121521	5.41	100.8	6.47	0.045	6.8
	3/25/2021	EW-1-032521	3.71	173.5	6.09	0.098	7.2
EW-1	6/29/2021	EW-1-062921	1.72	241.3	6.54	0.062	17.2
EW-1	9/22/2021	EW-1-092221	1.76	116.0	6.23	0.064	10.5
	12/15/2021	EW-1-121521	3.76	143.2	5.83	0.088	7.7
	3/25/2021	EW-2A-032521	7.54	234.0	6.17	0.052	6.2
EW-2A	6/30/2021	EW-2A-063021	6.96	12.0	6.83	0.061	10.3
EW-2A	9/22/2021	EW-2A-092221	5.16	45.8	5.81	0.094	10.5
	12/15/2021	EW-2A-121521	6.02	172.3	6.04	0.062	8.2
	3/25/2021	5-W-43-032521	4.04	174.3	6.06	0.099	7.0
5-W-43	6/29/2021	5-W-43-062921	2.04	196.9	6.01	0.064	15.8
3-W-43	9/22/2021	5-W-43-092221	3.39	-51.6	5.92	0.122	11.2
	12/15/2021	5-W-43-121521	1.89	91.7	5.86	0.087	7.8
	3/25/2021	2A-W-40-032521	10.06	254.4	6.49	0.062	7.3
24 377 40	6/30/2021	2A-W-40-063021	7.49	8.0	8.64	0.064	18.6
2A-W-40	9/22/2021	2A-W-40-092221	6.57	-12.0	6.45	0.079	11.0
	12/15/2021	2A-W-40-121521	6.46	93.8	6.34	0.067	7.7

Table 6
Stabilized Field Parameter Values at HCC System Monitoring Wells

BNSF Former Maintenance and Fueling Facility

Skykomish, Washington Farallon PN: 683-071

Monitoring Well	Sample Date	Sample Identification	Dissolved Oxygen (milligrams per liter)	Oxidation-Reduction Potential (millivolts)	pH (Standard Units)	Specific Conductivity (mS/cm)	Temperature (degrees Celsius)
Withintoning Wen	3/26/2021	2A-W-41-032621	1.87	23.3	5.97	0.253	7.1
24 37/41	6/30/2021	2A-W-41-063021	7.67	-1.1	7.02	0.162	13.5
2A-W-41	9/22/2021	2A-W-41-092221	1.62	-11.7	6.50	0.199	12.6
	12/15/2021	2A-W-41-121521	4.00	-23.6	6.40	0.163	7.8
	3/26/2021	1B-W-23-032621	11.44	152.6	5.97	0.062	6.3
1B-W-23	6/29/2021	1B-W-23-062921	9.36	-8.4	8.64	0.100	19.1
1D-W-23	9/22/2021	1B-W-23-092221	6.83	1.7	6.01	0.154	17.3
	12/15/2021	1B-W-23-121521	10.79	118.0	6.02	0.062	6.4
	3/26/2021	2A-W-42-032621	0.59	234.0	5.93	0.131	7.0
2A-W-42	6/30/2021	2A-W-42-063021	1.61	-76.2	6.76	0.158	13.1
∠A-W-4∠	9/22/2021	2A-W-42-092221	2.49	125.9	6.03	0.152	13.5
	12/15/2021	2A-W-42-121521	3.37	138.0	6.07	0.138	8.3

NOTES:

HCC = Hydraulic Control and Containment

IE = instrument error

mS/cm = milliSiemens per centimeter

Table 7
Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington

Farallon	PN:	683.	071
r ar anon	T 14.	005	· • • • • • • • • • • • • • • • • • • •

				$DRO \left(\mu g/l\right)^1$			$ORO (\mu g/l)^1$		Calculated
Well	Date	Sample Identification	Result	MDL	MRL	Result	MDL	MRL	NWTPH-Dx ² (μg/l)
				Sen	try Wells				
S1-AD	3/24/2021	S1-AD-032421	< 62	62	62	< 92	92	92	< 77
31-AD	9/23/2021	S1-AD-092321	< 62	62	62	< 92	92	92	< 77
S1-AU	3/24/2021	S1-AU-032421	< 62	62	62	< 92	92	92	< 77
SI-AU	9/23/2021	S1-AU-092321	< 62	62	62	< 92	92	92	< 77
	3/24/2021	S1-BD-032421	< 65	65	65	190	96	96	223
S1-BD	4/12/2021	S1-BD-041221	< 62	62	62	< 91	91	91	< 77
	9/23/2021	S1-BD-092321	< 62	62	62	< 92	92	92	< 77
	3/24/2021	S1-BU-032421	< 62	62	62	< 92	92	92	< 77
S1-BU	4/12/2021	S1-BU-041221	< 62	62	62	< 91	91	91	< 77
	9/23/2021	S1-BU-092321	< 62	62	62	< 91	91	91	< 77
S2-AD	3/24/2021	S2-AD-032421	< 63	63	63	< 92	92	92	< 78
52-AD	9/23/2021	S2-AD-092321	< 62	62	62	< 91	91	91	< 77
S2-AU	3/24/2021	S2-AU-032421	< 63	63	63	< 92	92	92	< 78
52-AU	9/23/2021	S2-AU-092321	< 62	62	62	< 92	92	92	< 77
S2-BD	3/24/2021	S2-BD-032421	< 62	62	62	< 92	92	92	< 77
S2-BD	9/23/2021	S2-BD-092321	< 62	62	62	< 91	91	91	< 77
C2 DII	3/24/2021	S2-BU-032421	< 62	62	62	< 91	91	91	< 77
S2-BU	9/23/2021	S2-BU-092321	260	62	62	< 91	91	91	306
C2 AD	3/25/2021	S3-AD-032521	< 62	62	62	< 91	91	91	< 77
S3-AD	9/23/2021	S3-AD-092321	< 62	62	62	< 92	92	92	< 77
C2 ATT	3/25/2021	S3-AU-032521	< 62	62	62	< 92	92	92	< 77
S3-AU	9/23/2021	S3-AU-092321	< 62	62	62	< 92	92	92	< 77
C2 DD	3/25/2021	S3-BD-032521	< 62	62	62	< 92	92	92	< 77
S3-BD	9/23/2021	S3-BD-092321	< 62	62	62	< 92	92	92	< 77
C2 DII	3/25/2021	S3-BU-032521	< 62	62	62	< 91	91	91	< 77
S3-BU	9/23/2021	S3-BU-092321	< 62	62	62	< 91	91	91	< 77

Table 7

Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-071

				DRO (µg/l) ¹			ORO (µg/l) ¹		Calculated
Well	Date	Sample Identification	Result	MDL	MRL	Result	MDL	MRL	NWTPH-Dx ² (μg/l)
				Sent	try Wells				
S3-CD	3/25/2021	S3-CD-032521	< 62	62	62	< 92	92	92	< 77
83-CD	9/23/2021	S3-CD-092321	< 62	62	62	< 92	92	92	< 77
S3-CU	3/25/2021	S3-CU-032521	< 62	62	62	< 92	92	92	< 77
33-00	9/23/2021	S3-CU-092321	< 62	62	62	< 92	92	92	< 77
S4-AD	3/25/2021	S4-AD-032521	< 62	62	62	< 92	92	92	< 77
34-AD	9/23/2021	S4-AD-092321	< 62	62	62	< 91	91	91	< 77
S4-AU	3/25/2021	S4-AU-032521	< 62	62	62	< 92	92	92	< 77
54-AU	9/23/2021	S4-AU-092321	< 62	62	62	< 91	91	91	< 77
S4-BD	3/25/2021	S4-BD-032521	< 62	62	62	< 92	92	92	< 77
34-DD	9/23/2021	S4-BD-092321	< 62	62	62	< 92	92	92	< 77
S4-BU	3/25/2021	S4-BU-032521	< 62	62	62	< 92	92	92	< 77
54-DU	9/23/2021	S4-BU-092321	< 62	62	62	< 91	91	91	< 77
S4-CD	3/25/2021	S4-CD-032521	< 62	62	62	< 92	92	92	< 77
34-CD	9/23/2021	S4-CD-092321	< 62	62	62	< 92	92	92	< 77
S4-CU	3/25/2021	S4-CU-032521	< 62	62	62	< 92	92	92	< 77
54-CU	9/23/2021	S4-CU-092321	< 62	62	62	< 92	92	92	< 77
			Hydraulic Co	ntrol and Conta	ainment System	Monitoring We	ells		
	3/25/2021	GW-1-032521	< 62	62	62	< 92	92	92	< 77
GW-1	6/30/2021	GW-1-063021	< 63	63	63	< 93	93	93	< 78
Gw-I	9/22/2021	GW-1-092221	< 62	62	62	< 92	92	92	< 77
	12/15/2021	GW-1-121521	< 53	31	53	65 J	46	170	81 J
	3/25/2021	GW-2-032521	< 62	62	62	< 92	92	92	< 77
GW-2	6/30/2021	GW-2-063021	< 65	65	65	< 96	96	96	< 81
GW-2	9/22/2021	GW-2-092221	< 62	62	62	< 92	92	92	< 77
	12/15/2021	GW-2-121521	< 110 U	32	54	430	47	170	430
te-Specific Ren	nediation Level								477

Table 7
Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington

				DRO $(\mu g/l)^1$			ORO $(\mu g/l)^1$		Calculated
Well	Date	Sample Identification	Result	MDL	MRL	Result	MDL	MRL	NWTPH-Dx ² (μg/l)
			Hydraulic Co	ntrol and Conta	inment System	Monitoring We	lls		
	3/26/2021	GW-3-032621	400	62	62	370	92	92	770
		G W-3-032021	67 ³	62 ³	62 ³	< 92 ³	92 ³	92 ³	113 ³
	6/29/2021	GW-3-062921	< 62	0.062	62	< 92	0.092	92	< 77
GW-3		3 11 3 002,21	< 62 ³	0.062^3	62 ³	< 92 ³	0.092^{3}	92 ³	< 77 ³
	9/22/2021	GW-3-092221	120	63	63	520	92	92	640
	9,22,2021	3 11 3 072221	< 63 ³	63 ³	63 ³	370 ³	92 ³	92 ³	402 ³
	12/15/2021	GW-3-121521	330 J	34	58	690	50	180	1,020 J
			< 41 ³ UJ	34 ³	41 ³	310 ³	50 ³	180 ³	351 ³ J
	3/25/2021	GW-4-032521	< 62	62	62	< 92	92	92	< 77
GW-4	6/30/2021	GW-4-063021	< 62	62	62	< 92	92	92	< 77
	9/22/2021	GW-4-092221	< 62	62	62	110	91	91	141
	12/15/2021	GW-4-121521	< 36 UJ	32	55	62 J	48	170	80 J
	3/25/2021	EW-1-032521	< 62	62	62	< 91	91	91	< 77
EW-1	6/29/2021	EW-1-062921	< 62	62	62	< 92	92	92	< 77
E W-1	9/22/2021	EW-1-092221	< 62	62	62	< 92	92	92	< 77
	12/15/2021	EW-1-121521	< 52	31	52	78 J	45	170	94 J
	3/25/2021	EW-2A-032521	< 62	62	62	< 92	92	92	< 77
EW 2 4	6/30/2021	EW-2A-063021	< 62	62	62	< 92	92	92	< 77
EW-2A	9/22/2021	EW-2A-092221	< 62	62	62	< 92	92	92	< 77
	12/15/2021	EW-2A-121521	< 52	31	52	< 170	45	170	< 38
	3/25/2021	5-W-43-032521	< 62	62	62	< 92	92	92	< 77
5 XX 40	6/29/2021	5-W-43-062921	< 62	62	62	< 91	91	91	< 77
5-W-43	9/22/2021	5-W-43-092221	< 62	62	62	< 91	91	91	< 77
	12/15/2021	5-W-43-121521	< 31 UJ	31	31	87 J	46	170	103 J
	3/25/2021	2A-W-40-032521	< 63	63	63	< 94	94	94	< 79
	6/30/2021	2A-W-40-063021	< 62	62	62	< 92	92	92	< 77
2A-W-40	9/22/2021	2A-W-40-092221	< 62	62	62	< 91	91	91	< 77
	12/15/2021	2A-W-40-121521	< 53	31	53	< 170	46	170	< 39
te-Specific Ren	nediation Level								477

Table 7

$Total\ Petroleum\ Hydrocarbon\ Concentrations\ in\ Groundwater$

BNSF Former Maintenance and Fueling Facility

Skykomish, Washington Farallon PN: 683-071

				DRO (µg/l) ¹			ORO (µg/l) ¹		Calculated
Well	Date	Sample Identification	Result	MDL	MRL	Result	MDL	MRL	NWTPH-Dx ² (μg/l)
			Hydraulic Co	ntrol and Conta	ninment System	Monitoring We	lls		
	3/26/2021	2A-W-41-032621	660	62	62	470	92	92	1,130
	3/20/2021	2A-W-41-032021	170^{3}	62^{3}	62^{3}	< 92 ³	92 ³	92 ³	216 ³
	6/30/2021	2A-W-41-063021	< 63 ³	63^{3}	63^{3}	< 92 ³	92 ³	92 ³	< 78 ³
2A-W-41	9/22/2021	2A-W-41-092221	500	62	62	280	92	92	780
	9/22/2021	ZA-W-41-09ZZZ1	97 ³	62^{3}	62^{3}	< 92 ³	92 ³	92 ³	143 ³
	12/15/2021	2A-W-41-121521	410 J	31	52	400	45	160	810 J
	12/13/2021	2A-W-41-121321	$< 69^{3} \mathrm{U}$	31 ³	69^{3}	< 160 ³	45 ³	160^{3}	< 57 ³
	3/26/2021	1B-W-23-032621	< 62	62	62	< 92	92	92	< 77
1B-W-23	6/29/2021	1B-W-23-062921	< 62	62	62	< 92	92	92	< 77
1D-W-23	9/22/2021	1B-W-23-092221	< 62	62	62	< 92	92	92	< 77
	12/15/2021	1B-W-23-121521	< 54	32	54	< 170	47	170	< 40
	3/26/2021	2A-W-42-032621	91	62	62	160	91	91	251
2A-W-42	6/30/2021	2A-W-42-063021	110	62	62	< 92	92	92	156
2A-W-42	9/22/2021	2A-W-42-092221	140	62	62	130	91	91	270
	12/15/2021	2A-W-42-121521	< 89 U	30	89	150 J	45	160	195 J
Site-Specific Ren	nediation Level								477

NOTES:

Bold denotes the reported concentration exceeds the Site-specific remediation level. The remediation level is not applicable to the sentry wells or vaults in the barrier wall treatment gates.

DRO = total petroleum hydrocarbons as diesel-range organics

J = reported concentration is an estimated value

MDL = method detection limit

MRL = method reporting limit

 $\mu g/l = micrograms per liter$

ORO = total petroleum hydrocarbons as oil-range organics

U = analyte not detected above the level of the associated value

UJ = analyte was not detected and reporting limit is an estimate

[&]quot;<" denotes analyte not reported as detected at or exceeding the listed laboratory MRL.

¹Analyzed by Washington State Department of Ecology (Ecology) Method NWTPH-Dx without silica gel cleanup unless otherwise noted.

²Sum of DRO and ORO, using half the MDL for non-detect results.

³Sample analyzed by Ecology Method NWTPH-Dx with silica gel cleanup.

Table 8
Groundwater Elevations and LNAPL Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington

Farallon	PN:	683-	071
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Location	Measuring Point Elevation ¹ (feet NAVD88)	Date	Depth to Water ² (feet)	Water Elevation ¹ (feet NAVD88)	LNAPL Thickness (feet)
		3/24/2021	10.47	917.77	_
GW-1	928.24	6/29/2021	9.02	919.22	_
GW-1	928.24	9/21/2021	10.74	917.50	_
		12/14/2021	9.92	918.32	_
		3/24/2021	13.90	916.39	_
CW 2	020.20	6/29/2021	11.22	919.07	_
GW-2	930.29	9/21/2021	12.78	917.51	_
		12/14/2021	12.11	918.18	_
		3/24/2021	14.81	921.01	_
CW 2	025.02	6/29/2021	14.70	921.12	_
GW-3	935.82	9/21/2021	15.73	920.09	_
		12/14/2021	15.94	919.88	_
		3/24/2021	10.39	924.29	_
GW-4	02469	6/29/2021	9.65	925.03	_
GW-4	934.68	9/21/2021	10.60	924.08	_
		12/14/2021	9.69	924.99	_
		3/24/2021	10.10	918.62	_
EW 1	029.72	6/29/2021	9.25	919.47	_
EW-1	928.72	9/21/2021	10.30	918.42	_
		12/14/2021	9.85	918.87	_
		3/24/2021	9.93	926.27	_
EW-2A	936.2	6/29/2021	9.06	927.14	_
E W - 2A	930.2	9/21/2021	10.55	925.65	_
		12/14/2021	9.27	926.93	_
		3/24/2021	7.89	918.29	_
5-W-43	926.18	6/29/2021	6.90	919.28	_
3-W-43	920.18	9/21/2021	8.24	917.94	_
		12/14/2021	7.43	918.75	_

Table 8
Groundwater Elevations and LNAPL Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington

Farallon	PN:	683-071
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Location	Measuring Point Elevation ¹ (feet NAVD88)	Date	Depth to Water ² (feet)	Water Elevation ¹ (feet NAVD88)	LNAPL Thickness (feet)
		3/24/2021	11.93	921.41	_
2A-W-40	933.34	6/29/2021	11.23	922.11	_
2A-W-40	933.34	9/21/2021	12.41	920.93	_
		12/14/2021	11.36	921.98	_
		3/24/2021	17.47	917.75	_
2A-W-41	935.22	6/29/2021	16.06	919.16	_
∠A-W-41	933.22	9/21/2021	17.65	917.57	_
		12/14/2021	16.95	918.27	_
		3/24/2021	16.51	919.74	_
1D W 22	026.25	6/29/2021	17.05	919.20	_
1B-W-23	936.25	9/21/2021	16.71	919.54	_
		12/14/2021	16.52	919.73	_
		3/24/2021	13.01	922.36	_
2 4 337 42	025.27	6/29/2021	12.61	922.76	_
2A-W-42	935.37	9/21/2021	14.27	921.10	_
		12/14/2021	12.74	922.63	_
		3/24/2021	9.30	926.08	_
D/7 1	025.20	6/29/2021	8.72	926.66	_
PZ-1	935.38	9/21/2021	9.85	925.53	_
		12/14/2021	8.75	926.63	_
		3/24/2021	11.61	922.74	_
D/7 03 I	024.25	6/29/2021	10.92	923.43	_
PZ-2N	934.35	9/21/2021	12.00	922.35	_
		12/14/2021	11.22	923.13	_
		3/24/2021	7.84	927.10	_
D7 20	024.04	6/29/2021	7.90	927.04	_
PZ-2S	934.94	9/21/2021	5.79	929.15	_
		12/14/2021	6.79	928.15	_

Table 8 **Groundwater Elevations and LNAPL Thicknesses BNSF Former Maintenance and Fueling Facility** Skykomish, Washington **Farallon PN: 683-071**

Location	Measuring Point Elevation ¹ (feet NAVD88)	Date	Depth to Water ² (feet)	Water Elevation ¹ (feet NAVD88)	LNAPL Thickness (feet)
		3/24/2021	13.97	920.44	_
D7 2N	934.41	6/29/2021	8.47	925.94	_
PZ-3N 934.4	934.41	9/21/2021	13.97	920.44	_
		12/14/2021	13.91	920.50	_
		3/24/2021	8.33	926.12	_
PZ-3S	934.45	6/29/2021	13.93	920.52	_
PZ-33	934.43	9/21/2021	9.42	925.03	_
		12/14/2021	7.45	927.00	_
		3/24/2021	Well Dry	Well Dry	_
PZ-4N	935.27	6/29/2021	14.68	920.59	_
ΓZ-4N	933.27	9/21/2021	14.68	920.59	_
		12/14/2021	Wall Dev	Wall Dev	

	Elevation ¹		Depth to Water ²	Water Elevation ¹	LNAPL Thickness
Location	(feet NAVD88)	Date	(feet)	(feet NAVD88)	(feet)
		3/24/2021	13.97	920.44	_
PZ-3N	934.41	6/29/2021	8.47	925.94	_
rz-3N	934.41	9/21/2021	13.97	920.44	_
		12/14/2021	13.91	920.50	_
		3/24/2021	8.33	926.12	_
PZ-3S	934.45	6/29/2021	13.93	920.52	_
PZ-38	934.43	9/21/2021	9.42	925.03	_
		12/14/2021	7.45	927.00	_
		3/24/2021	Well Dry	Well Dry	_
D7 4N	935.27	6/29/2021	14.68	920.59	_
PZ-4N	933.27	9/21/2021	14.68	920.59	_
		12/14/2021	Well Dry	Well Dry	_
PZ-4S		3/24/2021	9.72	925.59	_
	935.31	6/29/2021	9.90	925.41	_
	955.51	9/21/2021	11.02	924.29	_
		12/14/2021	8.82	926.49	_
DZ GM		3/24/2021	15.23	917.92	_
	933.15	6/29/2021	13.95	919.20	_
PZ-5N	933.13	9/21/2021	15.58	917.57	_
		12/14/2021	14.86	918.29	_
		3/24/2021	8.09 C	925.37 C	1.89
D7 50	933.46	7/13/2021	9.51 C	923.95 C	0.5
PZ-5S	933.40	9/21/2021	9.50 C	923.96 C	0.55
		12/14/2021	7.44 C	926.02 C	0.18
		3/24/2021	13.22	917.95	_
PZ-6N	931.17	6/29/2021	12.02	919.15	_
rz-on	931.1/	9/21/2021	13.50	917.67	_
		12/14/2021	12.30	918.87	_

Table 8 Groundwater Elevations and LNAPL Thicknesses BNSF Former Maintenance and Fueling Facility Skykomish, Washington

Faral	lon	$PN \cdot$	683.	071
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Location	Measuring Point Elevation ¹ (feet NAVD88)	Date	Depth to Water ² (feet)	Water Elevation ¹ (feet NAVD88)	LNAPL Thickness (feet)
		3/24/2021	6.59	924.82	Heavy Trace
PZ-6S	931.41	7/13/2021	7.80 C	923.61 C	0.05
PZ-05	931.41	9/21/2021	7.84 C	923.57 C	0.02
		12/14/2021	5.95 C	925.46 C	0.07
		3/24/2021	12.48	917.89	_
DG 73.1	020.27	6/29/2021	11.15	919.22	_
PZ-7N	930.37	9/21/2021	12.75	917.62	_
		12/14/2021	12.01	918.36	_
		3/24/2021	6.47	923.93	_
D7. 70	020.4	6/29/2021	6.65	923.75	_
PZ-7S	930.4	9/21/2021	8.38	922.02	_
		12/14/2021	5.77	924.63	_
		3/24/2021	9.30	920.18	_
PZ-8	222.40	6/29/2021	8.92	920.56	_
	929.48	9/21/2021	10.16	919.32	_
		12/14/2021	9.92	919.56	_
		3/24/2021	8.92	923.92	Light Trace
RW-01	932.84	9/21/2021	10.04	922.80	_
		12/14/2021	7.66	925.18	_
		3/24/2021	9.90	923.94	_
DW 02	022.04	6/29/2021	9.34	924.50	_
RW-02	933.84	9/21/2021	11.04	922.80	_
		12/14/2021	8.74	925.10	_
		3/24/2021	9.79	924.01	_
DW 02	022.00	6/29/2021	9.27	924.53	_
RW-03	933.80	9/21/2021	11.03	922.77	_
		12/14/2021	8.69	925.11	_
		3/24/2021	7.23	924.63	_
D337.04	021.06	6/29/2021	6.84	925.02	Heavy Trace
RW-04	931.86	9/21/2021	7.78	924.08	_
		12/14/2021	3.77	928.09	Light Trace

Table 8 **Groundwater Elevations and LNAPL Thicknesses BNSF Former Maintenance and Fueling Facility** Skykomish, Washington Farallon PN: 683-071

	r ar anon 1 11.	. 003-07
Measuring Point		

Location	Measuring Point Elevation ¹ (feet NAVD88)	Date	Depth to Water ² (feet)	Water Elevation ¹ (feet NAVD88)	LNAPL Thickness (feet)
		3/24/2021	6.98	921.55	Light Trace
DW 05	928.53	6/29/2021	6.77	921.76	_
RW-05	928.33	9/21/2021	9.79	918.74	_
		12/14/2021	6.56	921.97	_
		3/24/2021	7.04	921.49	Light Trace
DW/ 06	029.52	6/29/2021	6.81	921.72	_
RW-06	928.53	9/21/2021	9.90	918.63	_
		12/14/2021	7.84	920.69	_
	933.06	3/24/2021	7.97	925.09	Light Trace
RW-07		6/29/2021	7.59	925.47	Light Trace
		9/21/2021	8.71 C	924.35 C	0.08
		12/14/2021	6.75 C	926.31 C	0.25
		3/24/2021	7.07	924.78	Light Trace
DW/ 00	021.05	6/29/2021	8.79	923.06	Heavy Trace
RW-08	931.85	9/21/2021	9.74 C	922.11 C	0.14
		12/14/2021	5.64	926.21	Light Trace
		3/24/2021	8.35	925.61	_
DW/ 00	022.06	6/29/2021	7.89	926.07	_
RW-09	933.96	9/21/2021	9.04	924.92	_
		12/14/2021	8.00	925.96	_

Table 8
Groundwater Elevations and LNAPL Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington

Farallon	PN:	683-071

Location	Measuring Point Elevation ¹ (feet NAVD88)	Date	Depth to Water ² (feet)	Water Elevation ¹ (feet NAVD88)	LNAPL Thickness (feet)
		3/24/2021	9.87	924.44	_
EG-WV-South Chamber	934.31	6/29/2021	9.14	925.17	_
(formerly EG-WV or EV)	934.31	9/21/2021	10.08	924.23	_
		12/14/2021	9.40	924.91	_
		3/24/2021	9.90	924.41	_
EG-WV-North Chamber	934.31	6/29/2021	9.20	925.11	_
EG-W V-North Chamber	934.31	9/21/2021	10.05	924.26	_
		12/14/2021	9.35	924.96	_
		3/24/2021	8.68	928.41	_
CG-WV-South Chamber (formerly CG-WV or CV)	937.09	6/29/2021	8.16	928.93	_
		9/21/2021	9.89	927.20	_
		12/14/2021	7.54	929.55	_
		3/24/2021	8.68	928.41	_
CG-WV-North Chamber	937.09	6/29/2021	8.17	928.92	_
CG-w v-Norm Chamber	937.09	9/21/2021	9.89	927.20	_
		12/14/2021	7.54	929.55	_
		3/24/2021	6.97	924.87	_
WG-EV-South Chamber	931.84	6/29/2021	11.30	920.54	Light Trace
(formerly WG-EV or WV)	931.84	9/21/2021	9.05	922.79	_
		12/14/2021	7.50	924.34	Light Trace
		3/24/2021	6.93	924.91	_
WG-EV-North Chamber	931.84	6/29/2021	11.30	920.54	_
W O-E V-North Chamber	931.04	9/21/2021	8.85	922.99	_
		12/14/2021	7.50	924.34	_

Table 8 Groundwater Elevations and LNAPL Thicknesses BNSF Former Maintenance and Fueling Facility Skykomish, Washington

Farallon PN: 683-071

Location	Measuring Point Elevation ¹ (feet NAVD88)	Date	Depth to Water ² (feet)	Water Elevation ¹ (feet NAVD88)	LNAPL Thickness (feet)
		3/24/2021	4.73	926.03	_
FWG-WV-South Chamber	930.76	6/29/2021	9.19	921.57	_
(formerly FWG-WV or FWV)		9/21/2021	6.51	924.25	_
		12/14/2021	4.68	926.08	_
FWG-WV-North Chamber		3/24/2021	4.73	926.03	_
	930.76	6/29/2021	9.19	921.57	_
		9/21/2021	6.65	924.11	_
		12/14/2021	4.68	926.08	_

NOTES:

- denotes LNAPL was not observed.

LNAPL = light nonaqueous-phase liquid

Light Trace = LNAPL less than 0.01 foot thick and thin coating of LNAPL and/or a sheen observed on the oil-water interface prot NA = not applicable

Heavy Trace = LNAPL less than 0.01 foot thick and thick coating of LNAPL observed on the oil-water interface probe

¹Elevations referenced to North American Vertical Datum of 1988 (NAVD88).

²Depths referenced to measuring point (e.g., top of well casing, top of vault).

³Vault oil-water separator chamber is visually inspected for presence of LNAPL during monitoring events. LNAPL thickness measured only if measurable LNAPL is present.

APPENDIX A LABORATORY ANALYTICAL REPORTS

2021 ANNUAL HYDRAULIC CONTROL AND CONTAINMENT SYSTEM
OPERATIONS REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA



Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-100257-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Ushi Patet

Authorized for release by: 1/8/2021 2:48:48 PM Urvashi Patel, Client Service Manager Urvashi.Patel@Eurofinset.com

Designee for

Nathan Lewis, Project Manager I (253)922-2310
Nathan.Lewis@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Laboratory Job ID: 580-100257-1

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-100257-1

Job ID: 580-100257-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative 580-100257-1

Comments

No additional comments.

Receipt

The samples were received on 1/5/2021 11:12 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.1° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-347347, so an LCS and LCSD were used instead.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-100257-1

Project/Site: Skykomish HCC System

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** Detection Limit (DoD/DOE) DL DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)
EDL Estimated Detection Limit (Dioxin)

EDL Estimated Detection Limit (Dioxin
LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

1/8/2021

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-100257-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-010421 Lab Sample ID: 580-100257-1

Date Collected: 01/04/21 10:00 Matrix: Water

Date Received: 01/05/21 11:12

Method: NWTPH-Dx - No	orthwest - Semi-Volatile I	Petroleum Prod	ucts (GC)			
Analyte	Result Qualifie	r RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.24	0.064	mg/L	01/06/21 11:36	01/07/21 12:11	1
Motor Oil (>C24-C36)	0.23	0.094	mg/L	01/06/21 11:36	01/07/21 12:11	1
Surrogate	%Recovery Qualifie	r Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	78	50 - 150		01/06/21 11:36	01/07/21 12:11	1

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-100257-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-010421 Lab Sample ID: 580-100257-2

Date Collected: 01/04/21 10:00 Matrix: Water

Date Received: 01/05/21 11:12

Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.064	n	ng/L		01/06/21 11:36	01/07/21 12:31	1
Motor Oil (>C24-C36)	ND		0.095	n	ng/L		01/06/21 11:36	01/07/21 12:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenvl	73		50 - 150				01/06/21 11:36	01/07/21 12:31	

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Client: Farallon Consulting LLC Job ID: 580-100257-1

Project/Site: Skykomish HCC System Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-347347/1-A

Lab Sample ID: LCS 580-347347/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 347469

Analysis Batch: 347469

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 347347

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.065	mg/L		01/06/21 11:36	01/07/21 11:11	1
Motor Oil (>C24-C36)	ND	0.096	mg/L		01/06/21 11:36	01/07/21 11:11	1

MB MB

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 82 50 - 150 01/06/21 11:36 01/07/21 11:11

100 100

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 347347

%Rec

	Opike	LOU	LUU				/ortec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
#2 Diesel (C10-C24)	0.500	0.442		mg/L		88	50 - 120	
Motor Oil (>C24-C36)	0.500	0.508		mg/L		102	64 - 120	

Chika

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 96 50 - 150

Lab Sample ID: LCSD 580-347347/3-A

Matrix: Water

Analysis Batch: 347469

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 347347

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.438		mg/L		88	50 - 120	1	26
Motor Oil (>C24-C36)	0.500	0.500		mg/L		100	64 - 120	2	24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 98 50 - 150 o-Terphenyl

Eurofins TestAmerica, Seattle

1/8/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-100257-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-010421

Lab Sample ID: 580-100257-1 Date Collected: 01/04/21 10:00

Matrix: Water

Date Received: 01/05/21 11:12

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			347347	01/06/21 11:36	RJL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	347469	01/07/21 12:11	ADB	TAL SEA

Lab Sample ID: 580-100257-2 Client Sample ID: HCC EFF-010421

Date Collected: 01/04/21 10:00 **Matrix: Water**

Date Received: 01/05/21 11:12

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	3510C			347347	01/06/21 11:36	RJL	TAL SEA
l	Total/NA	Analysis	NWTPH-Dx		1	347469	01/07/21 12:31	ADB	TAL SEA

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-100257-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins TestAmerica, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C553	02-18-21

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-100257-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-100257-1	Before GAC-010421	Water	01/04/21 10:00	01/05/21 11:12	
580-100257-2	HCC EFF-010421	Water	01/04/21 10:00	01/05/21 11:12	

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TestAmerica Seattle

5755 8th Street East

Chain of Custody Record

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Tacoma, WA 98424-1317																				THE LEADER IN E	NVIRONM	ENTAL TESTIN
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Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Client: Farallon Consulting LLC

Job Number: 580-100257-1

Login Number: 100257 List Source: Eurofins TestAmerica, Seattle

List Number: 1

Creator: Hobbs, Kenneth F

Creator. Hobbs, Neillieth i		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-100453-1

Client Project/Site: BNSF Skykomish Rush NPDES

Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Tracy Dutton

Authorized for release by: 1/18/2021 1:44:12 PM Tracy Dutton, Client Relations Manager (253)380-6574 Tracy.Dutton@Eurofinset.com

Designee for

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES Laboratory Job ID: 580-100453-1

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Case Narrative

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-100453-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative 580-100453-1

Comments

No additional comments.

Receipt

The samples were received on 1/13/2021 12:13 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.5° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-347909. A LCS/LCSD were used instead.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 580-100453-1

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-100453-1

Project/Site: BNSF Skykomish Rush NPDES

Glossary

DL, RA, RE, IN

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** Detection Limit (DoD/DOE) DL

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control** 0C

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-100453-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC - 11221 Lab Sample ID: 580-100453-1

Date Collected: 01/12/21 12:30 Matrix: Water

Date Received: 01/13/21 12:13

Method: NWTPH-Dx - No Analyte	Result Qualifier		MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.30	0.062	mg/L		01/14/21 11:19	01/15/21 22:02	1
Motor Oil (>C24-C36)	0.23	0.091	mg/L		01/14/21 11:19	01/15/21 22:02	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	76	50 - 150			01/14/21 11:19	01/15/21 22:02	1

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Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-100453-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: HCC EFF - 11221 Lab Sample ID: 580-100453-2

Date Collected: 01/12/21 12:30 Matrix: Water

Date Received: 01/13/21 12:13

Analyte		Qualifier	roleum Prod RL	MDL	•	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		01/14/21 11:19	01/15/21 22:22	1
Motor Oil (>C24-C36)	ND		0.091		mg/L		01/14/21 11:19	01/15/21 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	71		50 - 150				01/14/21 11:19	01/15/21 22:22	1

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Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-100453-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-347909/1-A

Lab Sample ID: LCS 580-347909/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 348046

Analysis Batch: 348046

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 347909

MB MB Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 01/14/21 11:19 01/15/21 20:43 #2 Diesel (C10-C24) ND 0.065 mg/L Motor Oil (>C24-C36) ND 0.096 mg/L 01/14/21 11:19 01/15/21 20:43

MB MB

Qualifier Surrogate %Recovery I imits Prepared Analyzed Dil Fac 50 - 150 o-Terphenyl 74 01/14/21 11:19 01/15/21 20:43

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 347909

LCS LCS Spike %Rec. Added Result Qualifier Limits **Analyte** Unit D %Rec 0.500 50 - 120 #2 Diesel (C10-C24) 0.484 mg/L 97 Motor Oil (>C24-C36) 0.500 0.501 mg/L 100 64 - 120

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 93 50 - 150

Lab Sample ID: LCSD 580-347909/3-A

Matrix: Water

Analysis Batch: 348046

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 347909

LCSD LCSD Spike %Rec. **RPD** Result Qualifier Limits RPD Analyte Added Unit %Rec Limit #2 Diesel (C10-C24) 0.500 0.463 93 50 - 120 5 26 mg/L Motor Oil (>C24-C36) 0.500 0.483 97 64 - 120 mg/L 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl 88

1/18/2021

Lab Chronicle

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC - 11221 Lab Sample ID: 580-100453-1

Date Collected: 01/12/21 12:30 Date Received: 01/13/21 12:13

Matrix: Water

Job ID: 580-100453-1

Batch Batch Dilution Batch Prepared **Prep Type** Method **Factor** Number or Analyzed Analyst Type Run Lab Total/NA Prep 3510C 347909 01/14/21 11:19 TAL SEA Total/NA NWTPH-Dx 348046 01/15/21 22:02 T1W TAL SEA Analysis 1

Client Sample ID: HCC EFF - 11221 Lab Sample ID: 580-100453-2

Date Collected: 01/12/21 12:30 **Matrix: Water**

Date Received: 01/13/21 12:13

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			347909	01/14/21 11:19	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	348046	01/15/21 22:22	T1W	TAL SEA

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC

Job ID: 580-100453-1 Project/Site: BNSF Skykomish Rush NPDES

Laboratory: Eurofins TestAmerica, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C553	02-18-21

Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-100453-1	Before GAC - 11221	Water	01/12/21 12:30	01/13/21 12:13	
580-100453-2	HCC EFF - 11221	Water	01/12/21 12:30	01/13/21 12:13	

Job ID: 580-100453-1

TestAmerica Seattle

Chain of Custody Record

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

5755	Ωth	Street	Fact	
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Recipied of EM Lobs. JY Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Client: Farallon Consulting LLC

Job Number: 580-100453-1

List Source: Eurofins TestAmerica, Seattle

Login Number: 100453

0453

List Number: 1

Creator: Vallelunga, Diana L

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-100628-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 1/26/2021 3:28:37 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

Review your project results through

Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Laboratory Job ID: 580-100628-1

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Job ID: 580-100628-1

Job ID: 580-100628-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC Project: Skykomish HCC System Report Number: 580-100628-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 01/21/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.1 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-11921 (580-100628-1) and HCC EFF-11921 (580-100628-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared and analyzed on 01/22/2021.

The following sample contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: Before GAC-11921 (580-100628-1).

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-348402, so an LCS and LCSD were used instead.

The following sample formed emulsions during the extraction procedure: Before GAC-11921 (580-100628-1). The emulsions were broken up using sodium sulfate and rinsed with solvent.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC
Project/Site: Skykomish HCC System

Job ID: 580-100628-1

Glossary

DL, RA, RE, IN

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** Detection Limit (DoD/DOE) DL

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

1/26/2021

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-100628-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-11921 Lab Sample ID: 580-100628-1

Date Collected: 01/19/21 13:45

Matrix: Water

Date Collected: 01/19/21 13:45 Matrix: Water Date Received: 01/21/21 11:08

Method: NWTPH-Dx - No	orthwest - Semi-Volatil	e Petroleum Prod	ucts (GC)				
Analyte	Result Quali	fier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.40	0.063	mg/L		01/22/21 09:23	01/22/21 22:52	1
Motor Oil (>C24-C36)	0.37	0.092	mg/L		01/22/21 09:23	01/22/21 22:52	1
Surrogate	%Recovery Quali	ifier Limits			Prepared	Analyzed	Dil Fac
o-Terphenvl	85	50 - 150			01/22/21 09:23	01/22/21 22:52	1

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-100628-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-11921 Lab Sample ID: 580-100628-2 Date Collected: 01/19/21 13:45

Matrix: Water

Date Received: 01/21/21 11:08

Method: NWTPH-Dx - No	orthwest - Semi-Vo	latile Pet	roleum Prodi	ucts (GC	;)				
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.062		mg/L		01/22/21 09:23	01/22/21 23:12	1
Motor Oil (>C24-C36)	ND		0.091		mg/L		01/22/21 09:23	01/22/21 23:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150				01/22/21 09:23	01/22/21 23:12	1

Client: Farallon Consulting LLC Job ID: 580-100628-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-348402/1-A

Lab Sample ID: LCS 580-348402/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 348479

Analysis Batch: 348479

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 348402

ı		1410	1410							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	#2 Diesel (C10-C24)	ND		0.065		mg/L		01/22/21 09:23	01/22/21 21:53	1
	Motor Oil (>C24-C36)	ND		0.096		mg/L		01/22/21 09:23	01/22/21 21:53	1

MB MB

MD MD

 Surrogate
 %Recovery o-Terphenyl
 Qualifier Sum of the period of the peri

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 348402

LCS LCS Spike %Rec. Added Result Qualifier Limits **Analyte** Unit D %Rec #2 Diesel (C10-C24) 0.500 50 - 120 0.441 mg/L 88 Motor Oil (>C24-C36) 0.500 0.496 mg/L 99 64 - 120

Spike

Added

0.500

0.500

LCSD LCSD

0.452

0.531

Result Qualifier

Unit

mg/L

mg/L

LCS LCS

Lab Sample ID: LCSD 580-348402/3-A

Matrix: Water

#2 Diesel (C10-C24)

Motor Oil (>C24-C36)

Analyte

Analysis Batch: 348479

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 348402

106

 %Rec.
 RPD

 %Rec
 Limits
 RPD
 Limit

 90
 50 - 120
 2
 26

24

64 - 120

 Surrogate
 %Recovery or Terphenyl
 Qualifier or Terphenyl
 Limits or Terphenyl

Eurofins TestAmerica, Seattle

1/26/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-100628-1 Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-11921

Lab Sample ID: 580-100628-1 Date Collected: 01/19/21 13:45

Matrix: Water

Date Received: 01/21/21 11:08

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			348402	01/22/21 09:23	RJL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	348479	01/22/21 22:52	W1T	TAL SEA

Lab Sample ID: 580-100628-2 Client Sample ID: HCC EFF-11921

Date Collected: 01/19/21 13:45 **Matrix: Water**

Date Received: 01/21/21 11:08

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			348402	01/22/21 09:23	RJL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	348479	01/22/21 23:12	W1T	TAL SEA

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-100628-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins TestAmerica, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C553	02-18-21

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-100628-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-100628-1	Before GAC-11921	Water	01/19/21 13:45	01/21/21 11:08	
580-100628-2	HCC EFF-11921	Water	01/19/21 13:45	01/21/21 11:08	

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TestAmerica Seattle

Relinquished by:

5755 8th Street East

Chain of Custody Record

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Tacoma, WA 98424-1317 phone 253.922.2310 fax 253.922.5047 Regulatory Program: DW NPDES RCRA Other: TestAmerica Laboratories, Inc. **Client Contact** Project Manager: Pete Kingston Site Contact: Matt Bowser COC No: Date: 1-19-21 Farallong Consulting Tel/Fax: 425-394-4146 Lab Contact: Kristine Allen Carrier of Z COCs 975 5th Avenue Northwest **Analysis Turnaround Time** cleanup Sampler: ---Issaquah, Washington CALENDAR DAYS WORKING DAYS For Lab Use Only: (425) 295-0800 Phone TAT if different from Below 3 2000 Walk-in Client: (425) 295-0850 FAX 2 weeks Lab Sampling: Project Name: Skykomish HCC System Loc: 580 1 week 100628 2 days Job / SDG No.: WO # TT0100-S03 1 day Sample Type Sample Sample (C=Comp. # of Sample Identification Date Time Matrix Cont. G#Grab) Sample Specific Notes: Before GAC- 11921 Grab W **See instructions below 1:45 HCC EFF- (1921 Grab W ***See instructions below Therm. ID: **8** Cor: [-] • Unc: [-4] ← Cooler Dsc: **L** B FedEx: — Cust. Seal: Yes___No 🗶 Lab Cour: × Blue Ice, Wel, Dry, None Preservation Used: 1= ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. ✓ Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client ✓ Disposal by Lab Special Instructions/QC Requirements & Comments: 1) DxRx requires special limits 0.208 mg/L, cumulative, Final Volume of 2 mL required 2) No silica get cleanup needed for Dx Custody Seals Intact/ No Custody Seal No .: Cooler Temp. (°C); Obs'd: Corr'd: Therm ID No .: Relinquished by: Company: Received by: Date/Time: 11.300-Company: Relinquished by: Company: Date/Time: Received by: Received in Laboratory by: Company: Date/Time: 111/12 CTA SEA 1/21/2/

Date/Time:

Company:

Retitived at EM Lab JUS Page 11 of 12

Company:

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Client: Farallon Consulting LLC

Job Number: 580-100628-1

Login Number: 100628

List Source: Eurofins TestAmerica, Seattle

List Number: 1

Creator: Hobbs, Kenneth F

Creator: Hobbs, Kenneth F		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-100677-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 1/28/2021 5:56:40 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Laboratory Job ID: 580-100677-1

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Job ID: 580-100677-1

Job ID: 580-100677-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC Project: Skykomish HCC System Report Number: 580-100677-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 01/25/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 10.7 C.

The Field Sampler was not listed on the Chain of Custody.

The following samples were received at the laboratory outside the required temperature criteria: Before GAC-012521 (580-100677-1) and HCC EFF-012521 (580-100677-2). There was no cooling media present in the cooler.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-012521 (580-100677-1) and HCC EFF-012521 (580-100677-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 01/27/2021 and analyzed on 01/28/2021.

The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: Before GAC-012521 (580-100677-1).

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-348642. A LCS/LCSd were used instead.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICPMS)

Sample HCC EFF-012521 (580-100677-2) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 01/26/2021 and analyzed on 01/27/2021.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-100677-1 Project/Site: Skykomish HCC System

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control** 0C

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins TestAmerica, Seattle

1/28/2021

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-100677-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-012521 Lab Sample ID: 580-100677-1

Date Collected: 01/25/21 11:00 Matrix: Water

Date Received: 01/25/21 14:38

Method: NWTPH-Dx - No	rthwest - Semi-Volatile	Petroleum Prod	ucts (GC)			
Analyte	Result Qualifie	er RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.57	0.062	mg/L	01/27/21 11:03	01/28/21 04:21	1
Motor Oil (>C24-C36)	0.30	0.091	mg/L	01/27/21 11:03	01/28/21 04:21	1
Surrogate	%Recovery Qualifie	er Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	90	50 - 150		01/27/21 11:03	01/28/21 04:21	1

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-100677-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-012521

Date Collected: 01/25/21 11:10 Date Received: 01/25/21 14:38 Lab Sample ID: 580-100677-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		01/27/21 11:03	01/28/21 04:41	1
Motor Oil (>C24-C36)	ND		0.091		mg/L		01/27/21 11:03	01/28/21 04:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	91		50 - 150				01/27/21 11:03	01/28/21 04:41	1

Method: 200.8 - Metals (ICP/MS)							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	0.0010	mg/L		01/26/21 10:02	01/27/21 11:11	1
Lead	ND	0.00080	mg/L		01/26/21 10:02	01/27/21 11:11	1

1/28/2021

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Client: Farallon Consulting LLC Job ID: 580-100677-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

87

Lab Sample ID: MB 580-348642/1-A

Matrix: Water

Analysis Batch: 348690

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 348642

	MB	MB						•	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065		mg/L		01/27/21 11:03	01/28/21 03:00	1
Motor Oil (>C24-C36)	ND		0.096		mg/L		01/27/21 11:03	01/28/21 03:00	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

50 - 150

LCS LCS

LCSD LCSD

Result Qualifier

MDL Unit

mg/L

mg/L

0.471

0.553

Result Qualifier

Unit

Spike

Added

0.500

0.500

Limits

50 - 150

Spike

Added

0.500

0.500

Lab Sample ID: LCS 580-348642/2-A

Matrix: Water

o-Terphenyl

Analysis	Batch:	348690	

A I. .4 ..

Analyte		
#2 Diesel (C10-C24)		
Motor Oil (>C24-C36)		
	LCS	LCS

Surrogate o-Terphenyl

106 Lab Sample ID: LCSD 580-348642/3-A

Matrix: Water

Analysis Batch: 348690

Analyte

#2 Diesel (C10-C24) Motor Oil (>C24-C36)

Surrogate o-Terphenyl

LCSD LCSD %Recovery Qualifier

MB MB

ND

ND

Result Qualifier

%Recovery Qualifier

Limits 50 - 150

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-348556/14-A

Matrix: Water

Lead

Analysis	Batch:	348695

Analyte Arsenic

Lab Sample ID: LCS 580-348556/15-A

Matrix: Water

Analysis Batch: 348695

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Arsenic 1.00 1.00 mg/L 100 Lead 1.00 1.02 mg/L 102

Client Sample ID: Lab Control Sample

01/27/21 11:03 01/28/21 03:00

Prep Type: Total/NA **Prep Batch: 348642**

%Rec.

Unit	D	%Rec	Limits	
mg/L	_	94	50 - 120	
mg/L		111	64 - 120	

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 348642

%Rec. **RPD** Limits RPD %Rec Limit 88 50 - 120 6 26

0.442 mg/L 0.491 98 64 - 120 mg/L 12 24

> Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 348556

Prepared Analyzed Dil Fac 01/26/21 10:02 01/27/21 11:04 01/26/21 10:02 01/27/21 11:04

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 348556 %Rec.

Limits 85 - 115 85 - 115

Eurofins TestAmerica, Seattle

RL

0.0010

0.00080

1/28/2021

Job ID: 580-100677-1

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-348556/16-A			C	Client Sa	ample	ID: Lab	Control	Sample	Dup
Matrix: Water							Prep Ty	pe: Tot	al/NA
Analysis Batch: 348695							Prep Ba	atch: 34	18556
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	1.00	0.995		mg/L		100	85 - 115	1	20
Lead	1.00	1.02		mg/L		102	85 - 115	0	20

Lab Sample ID: 580-100677	7-2 MS						Client	Sample	ID: HCC EFF-012521
Matrix: Water									Prep Type: Total/NA
Analysis Batch: 348695									Prep Batch: 348556
-	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	ND		1.00	1.05		mg/L		105	70 - 130
Lead	ND		1.00	1.06		mg/L		106	70 - 130

Lab Sample ID: 580-10067 Matrix: Water Analysis Batch: 348695	7-2 MSD						Client	Sample	Prep Ty Prep Ba	pe: Tot	al/NA
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	ND		1.00	1.02		mg/L		102	70 - 130	2	20
Lead	ND		1.00	1.03		mg/L		103	70 - 130	3	20

Lab Sample ID. 300-1006/	1-2 DU					Cilent	Sample	; ID. HCC I	EFF-U	12321
Matrix: Water								Prep Typ	e: Tot	al/NA
Analysis Batch: 348695								Prep Ba	tch: 34	18556
	Sample	Sample	DU	DU						RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D			RPD	Limit
Arsenic	ND		ND		mg/L				NC	20
Lead	ND		ND		mg/L				NC	20

1/28/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-100677-1 Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-012521

Lab Sample ID: 580-100677-1

Matrix: Water

Date Collected: 01/25/21 11:00 Date Received: 01/25/21 14:38

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			348642	01/27/21 11:03	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	348690	01/28/21 04:21	ADB	TAL SEA

Lab Sample ID: 580-100677-2 Client Sample ID: HCC EFF-012521

Date Collected: 01/25/21 11:10 **Matrix: Water**

Date Received: 01/25/21 14:38

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			348642	01/27/21 11:03	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	348690	01/28/21 04:41	ADB	TAL SEA
Total/NA	Prep	200.8			348556	01/26/21 10:02	JCP	TAL SEA
Total/NA	Analysis	200.8		1	348695	01/27/21 11:11	FCW	TAL SEA

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-100677-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins TestAmerica, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C553	02-18-21

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-100677-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-100677-1	Before GAC-012521	Water	01/25/21 11:00	01/25/21 14:38	
580-100677-2	HCC EFF-012521	Water	01/25/21 11:10	01/25/21 14:38	

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TestAmerica Seattle

Chain of Custody Record

Tes	tAm	neri	ica

5755 8th Street East

Tacoma, WA 98424-1317															1	MAL	,17	•	THE LEADER IN	ENVIRONMEN	TAL TESTING
phone 253.922.2310 fax 253.922.5047	Regu	Jatory Pr	rogram: [_bw	☑NPDE	ES	RCF	_RA	o	Other:						VV	7 {		TestAmeric	a Laborat	ories, Inc.
Client Contact	Project N	Aanager: P	Pete Kingsto	on		Sit	Site Contact: Matt Bowser Date:					ate:	-				COC No:				
Farallong Consulting		425-394-41	*******			La	o Cor	ntac	ct: Kris	stine	Allen	1	С	arrier:	:				of _	coc)s
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			Sample			'اڠ۪ٳ	취	. 5	<u> </u>	<i>i</i>										*****	
Sample Identification	Sample Date	Sample Time	Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtere	Perform MS / MSD (Y / N) NWTPH-Dx w/o silica gel cleanup	Total As, Pb											Sample	Specific No	otes:
Before GAC- クリス-5 ~ (1/25/21	1100	Grab	w	2	11	x												***See instructi	ons below	
HCC EFF- 012521	1/25/21	1110	Grab	w	3	\coprod	х	x											***See instruction		
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580-100677 Chain of Custody						\bot	'	<u></u> '	11		\bot		'	1					/esNo_x	Lab Cou	r; _/
and the second s		1	1			Ш	'	⊥′								B	llue Io	ce, We	t, Dry None	Other:	FOR
reservation Used: 1= ice, 2= HCl; 3= H2SO4; 4=HNO3; 5	5=NaOH; 6= C	Jther			4015-1200 4015-1200			4	Con Service Advance Comme	1	INCO FIGURESIANCE PARTY									ESSENTATION PROSPERATOR SANS	en han kan kan kan kan ka ta Ta
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please Comments Section if the lab is to dispose of the sample.	₃ List any EPA	Waste Co	des for the	sample i	in the	S	ampl	le Di	ispos	al (A	fee m	nay br	e ass	iesse	d if sa	mples	are r	etaine	d longer than 1 r	nonth)	
Non-Hazard Flammable Skin Irritant	Poison E	В	Unknow	wn		_	. □p	Qetur.	rn to Clier	ant		্ৰ	Tienner	al by Lab	٤.		Archive	a for	Months		l
pecial Instructions/QC Requirements & Comments: 1) Dx					nulativ	ve, Fir	nal Vr	olun	ne of ?	2 mL	requi	ired 2	2) No) silica	a get c	leanup	p nee	ded fo	r Dx		
Custody Seals Intact: Yes No	Custody Se									er Ter	mp. ∫°C	C): Oł	bs'd:			Corr'd:_			Therm ID No.:		
elinquished by: Emi Smi +		callo		Pate/Tim 山名		R	Receive	/ed b	оу: 1 о	5mg /	5/0~	nte	,— 5- <u>>≤</u>	c	Compan	iy: ET	A-Se	20L	Date/Time: /25	/21 1	1438
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Client: Farallon Consulting LLC

Job Number: 580-100677-1

Login Number: 100677

List Number: 1

Creator: Blankinship, Tom X

List Source: Eurofins TestAmerica, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Refer to Job Narrative for details.
Cooler Temperature is acceptable.	False	Refer to Job Narrative for details.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-100898-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 2/9/2021 11:34:27 AM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Laboratory Job ID: 580-100898-1

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-100898-1

Job ID: 580-100898-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC Project: Skykomish HCC System Report Number: 580-100898-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 02/04/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.8 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-020221 (580-100898-1) and HCC EFF-020221 (580-100898-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 02/05/2021 and analyzed on 02/07/2021.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-349321. A LCS/LCSD were used instead.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC

Project/Site: Skykomish HCC System

Job ID: 580-100898-1

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

2/9/2021

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Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-100898-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-020221 Lab Sample ID: 580-100898-1

Date Collected: 02/02/21 09:00 Matrix: Water

Date Received: 02/04/21 12:27

Method: NWTPH-Dx - No Analyte	Result Qualifier		MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.69	0.062	mg/L	02/05/21 10:3	6 02/07/21 05:56	1
Motor Oil (>C24-C36)	0.72	0.091	mg/L	02/05/21 10:3	6 02/07/21 05:56	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	94	50 - 150		02/05/21 10:3	6 02/07/21 05:56	1

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Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-100898-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-020221 Lab Sample ID: 580-100898-2

Date Collected: 02/02/21 09:00 Matrix: Water

Date Collected: 02/02/21 09:00 Matrix: Water Date Received: 02/04/21 12:27

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		02/05/21 10:36	02/07/21 06:16	1
Motor Oil (>C24-C36)	ND		0.091		mg/L		02/05/21 10:36	02/07/21 06:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenvl	78		50 - 150				02/05/21 10:36	02/07/21 06:16	

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Client: Farallon Consulting LLC Job ID: 580-100898-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

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Lab Sample ID: MB 580-349321/1-A

Matrix: Water

Analysis Batch: 349400

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 349321

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065		mg/L		02/05/21 10:36	02/07/21 04:57	1
Motor Oil (>C24-C36)	ND		0.096		mg/L		02/05/21 10:36	02/07/21 04:57	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

50 - 150

Spike

Added

50 - 150

Spike

Added

LCS LCS

LCSD LCSD

Result Qualifier

0.451

0.499

Result Qualifier

Unit

Unit

Lab Sample ID: LCS 580-349321/2-A

Matrix: Water

o-Terphenyl

Analyte

Analysis	Batch:	349400

Surrogate	%Recovery	Qualifier	Limits
	LCS	LCS	
Motor Oil (>C24-C36)			0.500
#2 Diesel (C10-C24)			0.500

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LCSD LCSD

Lab Sample ID: LCSD 580-349321/3-A

Matrix: Water

o-Terphenyl

Analysis	Batch:	349400

Analyte	
#2 Diesel	(C10-C24)
M-4 O:1 /	(OO4 OOC)

Motor Oil (>C24-C36)

ecovery Qualifier	Limits
93	50 - 150

Client Sample ID: Lab Control Sample

02/05/21 10:36 02/07/21 04:57

Prep Type: Total/NA **Prep Batch: 349321**

%Rec. Limits

50 - 120 mg/L 90 mg/L 100 64 - 120

D %Rec

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 349321**

RPD %Rec. Limits RPD %Rec Limit 92 50 - 120 26

0.500 0.459 mg/L 0.500 0.495 99 64 - 120 mg/L 24

2/9/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-100898-1 Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-020221

Lab Sample ID: 580-100898-1 Date Collected: 02/02/21 09:00

Matrix: Water

Date Received: 02/04/21 12:27

		Batch	Batch		Dilution	Batch	Prepared		
F	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Ī	Total/NA	Prep	3510C			349321	02/05/21 10:36	JBT	TAL SEA
L	Total/NA	Analysis	NWTPH-Dx		1	349400	02/07/21 05:56	T1W	TAL SEA

Lab Sample ID: 580-100898-2 Client Sample ID: HCC EFF-020221

Date Collected: 02/02/21 09:00 Matrix: Water

Date Received: 02/04/21 12:27

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			349321	02/05/21 10:36	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	349400	02/07/21 06:16	T1W	TAL SEA

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-100898-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins TestAmerica, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date	
Washington	State	C553	02-18-21	

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-100898-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-100898-1	Before GAC-020221	Water	02/02/21 09:00	02/04/21 12:27	
580-100898-2	HCC EFF-020221	Water	02/02/21 09:00	02/04/21 12:27	

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TestAmerica Seattle

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Chain of Custody Record

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5755 8th Street East Tacoma, WA 98424-1317 phone 253.922.2310 fax 253.922.5047 Regulatory Program: __pw **NPDES** RCRA Other: TestAmerica Laboratories, Inc. **Client Contact** Project Manager: Pete Kingston Site Contact: Matt Bowser COC No: 21 Date: 2/2 Farallong Consulting Tel/Fax: 425-394-4146 Lab Contact: Kristine Allen Carrier: COCs of 2 975 5th Avenue Northwest Analysis Turnaround Time Sampler: TW CALENDAR DAYS WORKING DAYS Issaquah, Washington For Lab Use Only: (425) 295-0800 Phone TAT if different from Below Odes Walk-in Client: Loc: 580 (425) 295-0850 FAX Lab Sampling: 2 weeks 100898 Project Name: Skykomish HCC System 1 week Site: 2 days Job / SDG No.: WO # TT0100-S03 1 day Sample Type Sample Sample # of (C=Comp, Sample Identification Date Time Matrix G=Grab) Cont. Sample Specific Notes: 9:00 Before GAC- 02022) W Grab **See instructions below 12/21 9:00 HCC EFF- 020221 Grab W **See instructions below Therm. ID: 188 Cor: 0. 9 . Unc: 1.1 Cooler Dsc: LB -FedEx:_____ Packing: NOC _ UPS:_____ Cust. Seal: Yes__No_X__ Lab Cour: 人___ Blue Ice, Wet Dry, None Other:_____ Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. Non-Hazard Elammable Skin Irritant Poison B Unknown Return to Client Special Instructions/QC Requirements & Comments: 1) DxRx requires special limits 0.208 mg/L, cumulative, Final Volume of 2 mL required 2) No silica get cleanup needed for Dx Custody Seals Intact No. Custody Seal No.: Cooler Temp. (°C): Obs'd: Corr'd: Therm ID No.: Date/Time: Relinguished by Company: Received by: Company: Date/Time: Glacier 11:20 --ENCab 2/4/21 Relinguished by: Company: Company: ETA SEA Date/Time: Date/Time: 2/4/21 1227

PICKET UP OF EM LCS. 565 2/4/21

Company:

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Date/Time:

Company:

Received in Laboratory by:

Date/Time:

Client: Farallon Consulting LLC

Job Number: 580-100898-1

Login Number: 100898

List Source: Eurofins TestAmerica, Seattle

List Number: 1

Creator: Hobbs, Kenneth F

oreator. Hobbs, Neimeth i		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-101022-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

eurofins

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

M. Elaine Walker

Authorized for release by: 2/16/2021 2:24:48 PM Elaine Walker, Project Manager II (253)248-4972 m.elaine.walker@eurofinset.com

Designee for

Nathan Lewis, Project Manager I (253)922-2310 Nathan.Lewis@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Laboratory Job ID: 580-101022-1

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-101022-1

Job ID: 580-101022-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC Project: Skykomish HCC System Report Number: 580-101022-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

Two samples were received on 02/10/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was -0.4 C.

Receipt Exceptions

The chain of custody has the date for sample HCC EFF-020821 (580-101022-2) as 2/28/21. That is erroneous. The samples were collected on 2/8/21 as indicated by the date in the ID.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-020821 (580-101022-1) and HCC EFF-020821 (580-101022-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 02/12/2021 and analyzed on 02/15/2021.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-101022-1

Project/Site: Skykomish HCC System

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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2/16/2021

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-101022-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-020821 Lab Sample ID: 580-101022-1

Date Collected: 02/08/21 11:00 Matrix: Water

Date Received: 02/10/21 12:08

Analyte	Result Qualifie	r RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Tresuit Qualifie				Tropulcu	Allalyzea	Diriac
#2 Diesel (C10-C24)	0.36	0.062	mg/L		02/12/21 10:30	02/15/21 19:17	1
Motor Oil (>C24-C36)	0.33	0.091	mg/L		02/12/21 10:30	02/15/21 19:17	1
Surrogate	%Recovery Qualifie	r Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	83	50 - 150			02/12/21 10:30	02/15/21 19:17	1

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Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-101022-1 Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-020821 Lab Sample ID: 580-101022-2 Date Collected: 02/08/21 11:00

Matrix: Water

Date Received: 02/10/21 12:08

Method: NWTPH-Dx - No	orthwest - Semi-Vo	olatile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		02/12/21 10:30	02/15/21 19:37	1
Motor Oil (>C24-C36)	ND		0.091		mg/L		02/12/21 10:30	02/15/21 19:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	82		50 - 150				02/12/21 10:30	02/15/21 19:37	1

Client: Farallon Consulting LLC Job ID: 580-101022-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-349752/1-A

Lab Sample ID: LCS 580-349752/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 349825

Analysis Batch: 349825

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 349752

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.065	mg/L		02/12/21 10:30	02/15/21 18:17	1
Motor Oil (>C24-C36)	ND	0.096	mg/L		02/12/21 10:30	02/15/21 18:17	1

MB MB

MD MD

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 80 50 - 150 02/12/21 10:30 02/15/21 18:17

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 349752

%Rec.

LCS LCS Spike Added Result Qualifier Limits **Analyte** Unit D %Rec #2 Diesel (C10-C24) 0.500 50 - 120 0.466 mg/L 93 Motor Oil (>C24-C36) 0.500 0.508 102 64 - 120 mg/L

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 98 50 - 150

Lab Sample ID: LCSD 580-349752/3-A

Matrix: Water

Analysis Batch: 349825

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 349752

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.447		mg/L		89	50 - 120	4	26
Motor Oil (>C24-C36)	0.500	0.530		mg/L		106	64 - 120	4	24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl 98

2/16/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-101022-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-020821

Lab Sample ID: 580-101022-1 Date Collected: 02/08/21 11:00 **Matrix: Water**

Date Received: 02/10/21 12:08

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			349752	02/12/21 10:30	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	349825	02/15/21 19:17	TL1	TAL SEA

Lab Sample ID: 580-101022-2 Client Sample ID: HCC EFF-020821

Date Collected: 02/08/21 11:00 Matrix: Water

Date Received: 02/10/21 12:08

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			349752	02/12/21 10:30	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	349825	02/15/21 19:37	TL1	TAL SEA

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-101022-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins TestAmerica, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C553	02-18-21

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-101022-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-101022-1	Before GAC-020821	Water	02/08/21 11:00	02/10/21 12:08	
580-101022-2	HCC EFF-020821	Water	02/08/21 11:00	02/10/21 12:08	

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TestAmerica Seattle

Chain of Custody Record

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Non-Hazard Flammable Skin Irritant	Poison E		Unknov	wh		-	~~	turn to Client		·			1****	rchive		36		
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Client: Farallon Consulting LLC

Job Number: 580-101022-1

Login Number: 101022

List Number: 1

Creator: Blankinship, Tom X

List Source: Eurofins TestAmerica, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	Refer to Job Narrative for details.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-101165-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 2/22/2021 4:54:07 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

Review your project results through

Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Laboratory Job ID: 580-101165-1

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Sample Summary	10
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Receipt Chacklists	12

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-101165-1

Job ID: 580-101165-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC Project: Skykomish HCC System Report Number: 580-101165-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 02/18/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.0 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-21621 (580-101165-1) and HCC EFF-21621 (580-101165-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 02/19/2021 and analyzed on 02/20/2021.

Sample Before GAC-21621 (580-101165-1) contained a hydrocarbon pattern in the diesel range; however, the elution pattern was earlier for Motor Oil and later for C10-C24 than the typical diesel fuel pattern used by the laboratory for quantitative purposes.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-350166, so an LCS and LCSD were used instead.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC

Project/Site: Skykomish HCC System

Job ID: 580-101165-1

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

Recent Recovery

CFL Contains Free Liquid

CFU Colony Forming Unit

CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

2/22/2021

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-101165-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-21621 Lab Sample ID: 580-101165-1

Date Collected: 02/16/21 10:30 Matrix: Water
Date Received: 02/18/21 12:11

Method: NWTPH-Dx - No	orthwest - Semi-Volatile Pet	roleum Prod	ucts (GC)				
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.42	0.062	mg/L		02/19/21 11:03	02/20/21 16:14	1
Motor Oil (>C24-C36)	0.24	0.091	mg/L		02/19/21 11:03	02/20/21 16:14	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	97	50 - 150			02/19/21 11:03	02/20/21 16:14	1

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-101165-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-21621 Lab Sample ID: 580-101165-2

Date Collected: 02/16/21 10:30 Matrix: Water

Date Received: 02/18/21 12:11

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	mg/L		02/19/21 11:03	02/20/21 16:33	1
Motor Oil (>C24-C36)	ND		0.091	mg/L		02/19/21 11:03	02/20/21 16:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenvl	92		50 - 150			02/19/21 11:03	02/20/21 16:33	1

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Client: Farallon Consulting LLC Job ID: 580-101165-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-350166/1-A **Matrix: Water**

Lab Sample ID: LCS 580-350166/2-A

#2 Diesel (C10-C24)

Motor Oil (>C24-C36)

Matrix: Water

Analysis Batch: 350229

Analyte

Analysis Batch: 350229

Prep Batch: 350166 MB MB Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 02/19/21 11:03 02/20/21 14:54 ND 0.065 mg/L ND 0.096 mg/L 02/19/21 11:03 02/20/21 14:54

MB MB

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac o-Terphenyl 85 50 - 150 02/19/21 11:03 02/20/21 14:54

LCS LCS

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 350166

%Rec.

Client Sample ID: Lab Control Sample Dup

Added Result Qualifier D %Rec Limits **Analyte** Unit 0.500 50 - 120 #2 Diesel (C10-C24) 0.427 mg/L 85 Motor Oil (>C24-C36) 0.500 0.525 105 64 - 120 mg/L

Spike

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 104 50 - 150

Lab Sample ID: LCSD 580-350166/3-A

Matrix: Water

Analysis Batch: 350229 Prep Batch: 350166 LCSD LCSD Spike %Rec. **RPD** Result Qualifier Limits RPD Analyte Added Unit %Rec Limit #2 Diesel (C10-C24) 0.500 0.437 87 50 - 120 2 26 mg/L Motor Oil (>C24-C36) 0.500 0.521 104 64 - 120 mg/L 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 102 50 - 150 o-Terphenyl

Eurofins TestAmerica, Seattle

2/22/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-101165-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-21621

Lab Sample ID: 580-101165-1 Date Collected: 02/16/21 10:30

Matrix: Water

Batch Batch Dilution Batch Prepared **Prep Type** Method **Factor** Number or Analyzed Analyst Type Run Lab Prep Total/NA 3510C 350166 02/19/21 11:03 TAL SEA Total/NA NWTPH-Dx 350229 02/20/21 16:14 JKM TAL SEA Analysis 1

Client Sample ID: HCC EFF-21621 Lab Sample ID: 580-101165-2

Date Collected: 02/16/21 10:30 **Matrix: Water**

Date Received: 02/18/21 12:11

Date Received: 02/18/21 12:11

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			350166	02/19/21 11:03	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	350229	02/20/21 16:33	JKM	TAL SEA

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Eurofins TestAmerica, Seattle

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-101165-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	02-19-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2901	11-05-21
Montana (UST)	State	NA	04-13-21
Oregon	NELAP	WA100007	11-05-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-20-00031	02-10-23

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-101165-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset II
580-101165-1	Before GAC-21621	Water	02/16/21 10:30	02/18/21 12:11	
580-101165-2	HCC EFF-21621	Water	02/16/21 10:30	02/18/21 12:11	

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TestAmerica Seattle

Chain of Custody Record

Test	Am	eri	Ca

5755 8th Street East

	TestAmerica
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101165	THE LEADER IN ENVIRONMENTAL TESTING

Tacoma, WA 98424-1317 phone 253.922.2310 fax 253.922.5047	Regu	latory Pro	ogram:	bw	✓ NPDES		RCRA	, n	Other:					10	1	97		TestAmerica Laboratories,	Inc.
Client Contact	Project N	anager: Pe	ete Kingst	ton		~		act: Ma		wser		Dat	e: 2	- 16 -	2)			COC No:	
Farallong Consulting		25-394-41	***************************************			l ah	Cont	act: Kri					late: $2 - 16 - 2$ COC				2 of 2 COCs		
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			Sample		 	Sa Sa	ĕ												
	Sample	Sample	Type (C=Comp.		# of	Filtered Sample (Y/N) Perform MS/MSD (Y/N)	МТРН												
Sample Identification	Date	Time	G=Grab)	Matrix	Cont.	Ξ å	Ź											Sample Specific Notes:	
Before GAC-21621	2-16-21	10:30	Grab	w	2	_	х											***See instructions below	
HCC EFF- 2162)	12-16-21	10.30	Grab	w	2		х											***See instructions below	
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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=	VaOH: 6= C	ther					2								0 1 20200 1		98.00502031		828VI
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Custody Spals Intact: Yes No	Custody Se	al No.:							er Ten	np. (°C): Obs	'd:		Cor				Therm ID No.:	٦
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Client: Farallon Consulting LLC

Job Number: 580-101165-1

Login Number: 101165

List Number: 1

Creator: Blankinship, Tom X

List Source: Eurofins TestAmerica, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-101421-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

eurofins

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 3/4/2021 4:41:44 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Laboratory Job ID: 580-101421-1

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-101421-1

Job ID: 580-101421-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC Project: Skykomish HCC System Report Number: 580-101421-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

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Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/01/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.3 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-22621 (580-101421-1) and HCC EFF-22621 (580-101421-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 03/02/2021 and analyzed on 03/03/2021.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-350930, so an LCS and LCSD were used instead.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICPMS)

Sample HCC EFF-22621 (580-101421-2) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 03/01/2021 and analyzed on 03/03/2021.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-101421-1 Project/Site: Skykomish HCC System

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control** 0C

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins TestAmerica, Seattle

Page 4 of 13

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-101421-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-22621 Lab Sample ID: 580-101421-1

Date Collected: 02/26/21 09:00 Matrix: Water

Date Received: 03/01/21 12:44

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.39		0.062		mg/L		03/02/21 10:41	03/03/21 19:43	1
Motor Oil (>C24-C36)	0.37		0.092		mg/L		03/02/21 10:41	03/03/21 19:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150				03/02/21 10:41	03/03/21 19:43	1

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-101421-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-22621

Date Collected: 02/26/21 09:00 Date Received: 03/01/21 12:44

Lead

Lab Sample ID: 580-101421-2

03/01/21 18:28 03/03/21 14:28

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		03/02/21 10:41	03/03/21 20:03	1
Motor Oil (>C24-C36)	ND		0.091		mg/L		03/02/21 10:41	03/03/21 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	74		50 - 150				03/02/21 10:41	03/03/21 20:03	1
- Method: 200.8 - Metals ((ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0013		0.0010		mg/L		03/01/21 18:28	03/03/21 14:28	

0.00040

mg/L

ND

Client: Farallon Consulting LLC Job ID: 580-101421-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-350930/1-A

Matrix: Water

Analysis Petahi 251040

Client Sample ID: Method Blank

Prep Type: Total/NA

Analysis Batch: 351040								Prep Batch:	350930
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065		mg/L		03/02/21 10:41	03/03/21 13:18	1
Motor Oil (>C24-C36)	ND		0.096		mg/L		03/02/21 10:41	03/03/21 13:18	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150				03/02/21 10:41	03/03/21 13:18	1

Lab Sample ID: LCS 580-350930/2-A

Matrix: Water

Analysis Batch: 351040

MD MD

50 - 150

03/02/21 10:41 03/03/21 13:18

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 350930

LCS LCS Spike %Rec. Added Result Qualifier Unit Limits Analyte D %Rec #2 Diesel (C10-C24) 0.500 50 - 120 0.469 mg/L 94 mg/L Motor Oil (>C24-C36) 0.500 0.529 106 64 - 120

LCS LCS Surrogate %Recovery Qualifier Limits o-Terphenyl 96 50 - 150

Lab Sample ID: LCSD 580-350930/3-A

Matrix: Water

Analysis Batch: 351040

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 350930

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.428		mg/L		86	50 - 120	9	26
Motor Oil (>C24-C36)	0.500	0.457		mg/L		91	64 - 120	15	24

LCSD LCSD

Surrogate %Recovery Qualifier Limits

50 - 150 o-Terphenyl

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-350891/14-A

Matrix: Water

Analysis Batch: 351109

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 350891

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010		mg/L		03/01/21 18:28	03/03/21 14:24	1
Lead	ND		0.00040		mg/L		03/01/21 18:28	03/03/21 14:24	1

Lab Sample ID: LCS 580-350891/15-A

Matrix: Water

Analysis Batch: 351109

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 350891

	Spike	LCS	LCS			%Rec.
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits
Arsenic	1.00	1.03	mg/L		103	85 - 115
Lead	1.00	1.04	mg/L		104	85 - 115

3/4/2021

Job ID: 580-101421-1

mg/L

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Lead

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-350891/16-A Matrix: Water Analysis Batch: 351109			C	Client Sa	ample	ID: Lab	Control Prep Ty Prep Ba	pe: Tot	al/NA
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	1.00	1.04		mg/L		104	85 - 115	1	20

1.04

1.00

Lab Sample ID: 580-10134	8-C-2-C MS		Lab Sample ID: 580-101348-C-2-C MS							
Matrix: Water									Prep Ty	pe: Total/NA
Analysis Batch: 351109									Prep Ba	atch: 350891
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	0.0016		1.00	0.932		mg/L		93	70 - 130	
Lead	ND		1.00	0.956		mg/L		96	70 - 130	

Lab Sample ID: 580-101348	-C-2-D MS	D				Client	Samp	le ID: N	latrix Spil	ke Dup	licate
Matrix: Water									Prep Ty	pe: Tot	al/NA
Analysis Batch: 351109									Prep Ba	atch: 3!	50891
_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	0.0016		1.00	1.02		mg/L		102	70 - 130	9	20
Lead	ND		1.00	1.02		mg/L		102	70 - 130	7	20

Lab Sample ID: 580-10134 Matrix: Water Analysis Batch: 351109	8-C-2-B DU						Client Sample II Prep Tyl Prep Ba	pe: Tot	tal/NA
	Sample	Sample	DU	DU					RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D		RPD	Limit
Arsenic	0.0016		 0.00159		mg/L			3	20
Lead	ND		ND		mg/L			NC	20

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-101421-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-22621

Lab Sample ID: 580-101421-1 Date Collected: 02/26/21 09:00 **Matrix: Water**

Date Received: 03/01/21 12:44

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			350930	03/02/21 10:41	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	351040	03/03/21 19:43	JKM	TAL SEA

Client Sample ID: HCC EFF-22621 Lab Sample ID: 580-101421-2

Date Collected: 02/26/21 09:00 **Matrix: Water**

Date Received: 03/01/21 12:44

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			350930	03/02/21 10:41	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	351040	03/03/21 20:03	JKM	TAL SEA
Total/NA	Prep	200.8			350891	03/01/21 18:28	TMH	TAL SEA
Total/NA	Analysis	200.8		1	351109	03/03/21 14:28	FCW	TAL SEA

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-101421-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	02-19-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2901	11-05-21
Montana (UST)	State	NA	04-13-21
Oregon	NELAP	WA100007	11-05-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-20-00031	02-10-23

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-101421-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset II
580-101421-1	Before GAC-22621	Water	02/26/21 09:00	03/01/21 12:44	
580-101421-2	HCC EFF-22621	Water	02/26/21 09:00	03/01/21 12:44	

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TestAmerica Seattle

Cust. Seal: Yes__Nox___ Lab Cour:_ X____

Blue Ice, Wel, Dry, None

5755 8th Street East

Chain of Custody Record

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THE LEADER IN ENVIRONMENTAL TESTING Tacoma, WA 98424-1317 phone 253.922.2310 fax 253.922.5047 Regulatory Program: Dw NPDES TestAmerica Laboratories, Inc. RCRA Other: **Client Contact** Project Manager: Pete Kingston Site Contact: Matt Bowser Date: 2-26 2 \ COC No: Farallong Consulting Tel/Fax: 425-394-4146 COCs Lab Contact: Kristine Allen 7__ Carrier: Filtered Sample (Y/N)
Perform MS / MSD (Y/N)
NWTPH-Dx w/o silica gei cleanup
Total As, Pb (EPA 200.8) 975 5th Avenue Northwest **Analysis Turnaround Time** $\neg w$ Sampler: CALENDAR DAYS WORKING DAYS Issaquah, Washington For Lab Use Only: (425) 295-0800 Phone TAT if different from Below Walk-in Client: (425) 295-0850 FAX 2 weeks Lab Sampling: Project Name: Skykomish HCC System 1 week Site: 2 days Job / SDG No.: WO # TT0100-S03 1 day Sample Type Sample Sample # of (C≃Comp. Sample Identification Date Time Matrix G=Grab) Cont. Sample Specific Notes: Before GAC-2262 9.00 W Grab **See instructions below HCC EFF- 22621 2/26/21 9:00 Grab W 3 **See instructions below Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. Non-Hazard Skin Irritant Flammable Poison B Unknown Return to Client Archive for Months Special Instructions/QC Requirements & Comments: 1) DxRx requires special limits 0.208 mg/L, cumulative, Final Volume of 2 mL required 2) No silica get cleanup needed for Dx Picked up at EM Les JLS 3/1/21 Cooler Temp. (°C): Obs'd: Custody Seals intact: Yes Custody Seal No.: No Therm ID No.: Relinguignetur Company: Glacier Company: EMics Date/Time: Received by: Date/Time: 3/1/2: 9 en -Relinquished by: Date/Time: 3/)/入(Date/Time: Received by: / Company: ETAS CA Relinquished t Therm. ID: TAU Cor: 3.3 ° Unc: 3.1 ° pany: 1244

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Company:

Date/Time:

Received in Laboratory by:

Client: Farallon Consulting LLC

Job Number: 580-101421-1

Login Number: 101421

List Number: 1

Creator: Blankinship, Tom X

List Source: Eurofins TestAmerica, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





ANALYTICAL REPORT

Eurofins TestAmerica, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-101526-1

Client Project/Site: BNSF Skykomish Rush NPDES

Sampling Event: Skykomish - GAC/HCC

For:

eurofins

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 3/9/2021 4:02:14 PM

Nathan Lewis, Project Manager I

(253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

Review your project results through

Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES Laboratory Job ID: 580-101526-1

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Case Narrative

Client: Farallon Consulting LLC

Job ID: 580-101526-1 Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-101526-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC **Project: BNSF Skykomish Rush NPDES** Report Number: 580-101526-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/04/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.8 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-3321 (580-101526-1) and HCC EFF-3321 (580-101526-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 03/05/2021 and analyzed on 03/09/2021.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-351317, so a LCS and LCSD were used instead.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-101526-1

Project/Site: BNSF Skykomish Rush NPDES

Glossary

MDC

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Concentration (Radiochemistry)

Negative / Absent NEG POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-101526-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-3321 Lab Sample ID: 580-101526-1

Date Collected: 03/03/21 06:30

Matrix: Water

Date Collected: 03/03/21 06:30 Matrix: Water Date Received: 03/04/21 11:30

Method: NWTPH-Dx - No	rthwest - Semi-Vola	tile Petroleum P	roducts (G	C)				
Analyte	Result Qu	ıalifier R	L MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.47	0.06	2	mg/L		03/05/21 14:50	03/09/21 12:18	1
Motor Oil (>C24-C36)	0.41	0.09	2	mg/L		03/05/21 14:50	03/09/21 12:18	1
Surrogate	%Recovery Qu	ualifier Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	82	50 - 150	_			03/05/21 14:50	03/09/21 12:18	1

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Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-101526-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: HCC EFF-3321 Lab Sample ID: 580-101526-2 Date Collected: 03/03/21 06:30

Matrix: Water

Date Received: 03/04/21 11:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		03/05/21 14:50	03/09/21 12:38	1
Motor Oil (>C24-C36)	ND		0.091		mg/L		03/05/21 14:50	03/09/21 12:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	77		50 - 150				03/05/21 14:50	03/09/21 12:38	1

Client: Farallon Consulting LLC

Job ID: 580-101526-1 Project/Site: BNSF Skykomish Rush NPDES

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-351317/1-A

Lab Sample ID: LCS 580-351317/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 351393

Analysis Batch: 351393

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 351317

	IVID IVID						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.065	mg/L		03/05/21 14:50	03/09/21 10:58	1
Motor Oil (>C24-C36)	ND	0.096	mg/L		03/05/21 14:50	03/09/21 10:58	1

MB MB

MD MD

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 74 50 - 150 03/05/21 14:50 03/09/21 10:58

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 351317

%Rec.

LCS LCS Spike Added Result Qualifier Limits **Analyte** Unit D %Rec #2 Diesel (C10-C24) 0.500 50 - 120 0.508 mg/L 102 Motor Oil (>C24-C36) 0.500 0.550 mg/L 110 64 - 120

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 97 50 - 150

Lab Sample ID: LCSD 580-351317/3-A

Matrix: Water

Analysis Batch: 351393

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 351317

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.485		mg/L		97	50 - 120	5	26
Motor Oil (>C24-C36)	0.500	0.541		mg/L		108	64 - 120	2	24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl 94

3/9/2021

Lab Chronicle

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-3321 Lab Sample ID: 580-101526-1

Date Collected: 03/03/21 06:30 Date Received: 03/04/21 11:30 Matrix: Water

Job ID: 580-101526-1

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			351317	03/05/21 14:50	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	351393	03/09/21 12:18	JKM	TAL SEA

Client Sample ID: HCC EFF-3321 Lab Sample ID: 580-101526-2

Date Collected: 03/03/21 06:30 Matrix: Water

Date Received: 03/04/21 11:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			351317	03/05/21 14:50	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	351393	03/09/21 12:38	JKM	TAL SEA

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

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Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-101526-1

Project/Site: BNSF Skykomish Rush NPDES

Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	02-19-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2901	11-05-21
Montana (UST)	State	NA	04-13-21
Oregon	NELAP	WA100007	11-05-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-20-00031	02-10-23

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Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-101526-1	Before GAC-3321	Water	03/03/21 06:30	03/04/21 11:30	
580-101526-2	HCC EFF-3321	Water	03/03/21 06:30	03/04/21 11:30	

Job ID: 580-101526-1

Chain of Custody Record

TestAmerica	_
	Z
THE CEARER IN COMPONIEDED AS SEEN	

5755 8th Street East

Tacoma, WA 98424-1317 phone 253.922.2310 fax 253.922.5047	Regu	ulatory Pro	ogram:	DW	✓ NPDES		RCR	Α :	Othe	r:										TestAmerica Laboratories, Inc
Client Contact		Aanager: P				T		tact: I			er		Date	e: 3	13	12	n			COC No:
Farallong Consulting		425-394-41				1		tact: I					1	rier:		100				1 of 2 COCs
975 5th Avenue Northwest		Analysis T	urnaroun	d Time		\sqcap			T	Ī		Τ.	T		T	T		Т	7	Sampler: 374
Issaquah, Washington	**************************************	DAR DAYS	Wor	RKING DAY	'S	1	gel cleanup													For Lab Use Only:
(425) 295-0800 Phone	TA	AT if different fr	rom Below _	300	۸.	:	z j			1										Walk-in Client:
(425) 295-0850 FAX			weeks	(5	2	=		İ		1									Lab Sampling:
Project Name: Skykomish HCC System		1	week			> ;	_ ≧													
Site:	1 9	2	days			ž :	S OS		1						İ					Job / SDG No.:
WO # TT0100-S03	<u> </u>	1	day			all a	2 ×										Ì			
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	3 Day	# of Cont.	Filtered S	NWTPH-C													Sample Specific Notes:
Before GAC- 3321	3/3/21	630	Grab	w	2		Х													***See instructions below
HCC EFF- 3321	3/3/21	630	Grab	w	2	1	х							_			1		<u> </u>	***See instructions below
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Therm. ID: <u>TREA</u> Cor: <u>O.S</u> Unc: <u>O. &</u>					1															
Cooler Dsc: LB						T	11		7		_	† †								
Packing: Nole FedEx:	+			╄┼		\bot	1-1	 -	4-4	-	-	$\bot \bot$								
Cust. Seal: Yes_No X Lab Cour: X							1	-			ı			580	0-101	11/11/1 1526		in of		
Blue Ice, Wei Dry, None Other:						T	1					\prod	— I			1020	Cila	1/1 ()	Cup	lody
												П	1	1		Ť	T	Ť	1	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=	NaOH; 6= C	ther			V6 (10 10 10 10 10 10 10 10 10 10 10 10 10 1		2		200											
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please L Comments Section if the lab is to dispose of the sample.	ist any EPA	Waste Cod	les for the	sample ir	n the	Sa	ample	Disp	osal	(A fe	e ma	y be a	asse	ssed	if sa	mple	s are	reta	inec	l longer than 1 month)
Non-Hazard Flammable Skin Irritant	Poison B		Unknov	מש			Ret	turn to (Client			Disp	osal by	/ Lab		1	Arc	nive fo	r	Months
pecial Instructions/QC Requirements & Comments: 1) DxRx	requires s	pecial limit	ts 0.208 m	g/L, cum	nulative	, Fin	al Vo	lume	of 2 r	nL re	quire	d 2)	No s	ilica	get c	lean	up n	ede	d for	Dx
												•								
Custody Seals Intact: Yes No	Custody Se	al No.:						Co	oler T	emp.	(°C):	Obs'	d:		C	orr'd				Therm ID No.:
delinquished by		Jer :		Date/Tim)		Re	ceive) }		2	Mary Market	w	Cor	npan	y: ~1 <u>/</u>	<u>}</u>	-		Date/Time: 12:15;-
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elinquished by:	Company:			Date/Tim	ie:	Re	eceive	d in L	ăbora	tory b	y:			Cor	npan	y:				Date/Time:

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Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Client: Farallon Consulting LLC

Job Number: 580-101526-1

Login Number: 101526 List Source: Eurofins TestAmerica, Seattle

List Number: 1

Creator: Vallelunga, Diana L

oroator. Vanoranga, Diana E		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-101655-1

Client Project/Site: BNSF Skykomish Rush NPDES

Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

M. Elains Walker

Authorized for release by: 3/15/2021 4:42:06 PM Elaine Walker, Project Manager II (253)248-4972 m.elaine.walker@eurofinset.com

Designee for

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

.....Links

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES Laboratory Job ID: 580-101655-1

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Case Narrative

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-101655-1

Job ID: 580-101655-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC
Project: BNSF Skykomish Rush NPDES
Report Number: 580-101655-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

Two samples were received on 3/10/2021 11:02 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-030921 (580-101655-1) and HCC EFF-030921 (580-101655-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 03/11/2021 and analyzed on 03/15/2021.

The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: Before GAC-030921 (580-101655-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICPMS)

Sample HCC EFF-030921 (580-101655-2) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 03/11/2021 and analyzed on 03/12/2021.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-101655-1

Project/Site: BNSF Skykomish Rush NPDES

Glossary

MDC

MDL

MPN

MQL NC

ND

NEG POS

PQL

PRES

QC

RER RL

RPD **TEF**

TEQ

TNTC

ML

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)

Minimum Detectable Concentration (Radiochemistry)

Not Detected at the reporting limit (or MDL or EDL if shown)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number Method Quantitation Limit

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-101655-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-030921 Lab Sample ID: 580-101655-1

Date Collected: 03/09/21 12:40

Matrix: Water

Date Received: 03/10/21 11:02

Method: NWTPH-Dx - No	orthwest - Semi-Volatile Pe	etroleum Prod	ucts (GC)				
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.42	0.062	mg/L		03/11/21 12:01	03/15/21 13:18	1
Motor Oil (>C24-C36)	0.35	0.091	mg/L		03/11/21 12:01	03/15/21 13:18	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	84	50 - 150			03/11/21 12:01	03/15/21 13:18	1

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-101655-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: HCC EFF-030921

Date Collected: 03/09/21 12:50 Date Received: 03/10/21 11:02 Lab Sample ID: 580-101655-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		03/11/21 12:01	03/15/21 13:37	1
Motor Oil (>C24-C36)	ND		0.091		mg/L		03/11/21 12:01	03/15/21 13:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	84		50 - 150				03/11/21 12:01	03/15/21 13:37	1

Method: 200.8 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010		mg/L		03/11/21 08:36	03/12/21 11:13	1
Lead	ND		0.00040		mg/L		03/11/21 08:36	03/12/21 11:13	1

3/15/2021

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Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-351783/1-A

Lab Sample ID: LCS 580-351783/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 352027

Analysis Batch: 352027

Client Sample ID: Method Blank

Prep Type: Total/NA

Job ID: 580-101655-1

Prep Batch: 351783

MB MB Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Analyte 03/11/21 12:01 03/15/21 12:19 #2 Diesel (C10-C24) ND 0.065 mg/L Motor Oil (>C24-C36) ND 0.096 mg/L 03/11/21 12:01 03/15/21 12:19

MB MB

Qualifier Surrogate %Recovery I imite Prepared Analyzed Dil Fac o-Terphenyl 83 50 - 150 03/11/21 12:01 03/15/21 12:19

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 351783

Spike LCS LCS %Rec. Added Result Qualifier %Rec Limits **Analyte** Unit D 0.500 0.485 50 - 120 #2 Diesel (C10-C24) mg/L 97 Motor Oil (>C24-C36) 0.500 0.552 110 64 - 120 mg/L

LCS LCS

%Recovery Qualifier Limits Surrogate o-Terphenyl 106 50 - 150

Lab Sample ID: LCSD 580-351783/3-A

Matrix: Water

Analysis Batch: 352027

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 351783

Spike LCSD LCSD %Rec. **RPD** Result Qualifier Limits **RPD Analyte** Added Unit D %Rec Limit #2 Diesel (C10-C24) 0.500 0.505 50 - 120 mg/L 101 26 Motor Oil (>C24-C36) 0.500 0.558 64 - 120 mg/L 112 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 108 50 - 150

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-351745/14-A

Matrix: Water

Analysis Batch: 351889

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 351745

MB MB **MDL** Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac 0.0010 Arsenic ND mg/L 03/11/21 08:36 03/12/21 11:09 ND 0.00040 03/11/21 08:36 03/12/21 11:09 Lead mg/L

Lab Sample ID: LCS 580-351745/15-A

Matrix: Water

Analysis Batch: 351889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 351745

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit n %Rec Limits Arsenic 1.00 0.995 mg/L 99 85 - 115 Lead 1.00 0.980 mg/L 98 85 - 115

Eurofins TestAmerica, Seattle

3/15/2021

Client: Farallon Consulting LLC Job ID: 580-101655-1

Project/Site: BNSF Skykomish Rush NPDES

Lab Sample ID: LCSD 580-351745/16-A

Method: 200.8 - Metals (ICP/MS) (Continued)

0.0045

Sample Sample

Client Sa	mple ID: Lab Control Sample Dup	
Olichi Gal	inple ib. Lab Control Cample Dup	

mg/L

Matrix: Water

Analysis Batch: 351889

	Cheffit Sample ID. Lab Control Sample Dup	
	Prep Type: Total/NA	
	Prep Batch: 351745	
)	%Rec. RPD	

104

Spike LCSD LCSD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Arsenic 1.00 0.997 mg/L 100 85 - 115 0 20 Lead 1.00 0.986 mg/L 99 85 - 115 20

Lab Sample ID: 580-101596-C-4-C MS

Client Sample ID: Matrix Spike

Matrix: Water

Analysis Batch: 351889

Prep Ty	pe: Total/NA
Prep Ba	itch: 351745
%Rec.	

Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Arsenic ND 1.00 1.04 mg/L 104 70 - 130 0.0045 1.00 1.01 101 70 - 130 Lead mg/L

Lab Sample ID: 580-101596-C-4-D MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Water** Prep Type: Total/NA **Analysis Batch: 351889** Prep Batch: 351745 Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier RPD Analyte Unit D %Rec Limits Limit Arsenic ND 1.00 1.05 mg/L 105 70 - 130 2 20

Lab Sample ID: 580-101596-C-4-B DU Client Sample ID: Duplicate

1.04

DU DU

1 00

Matrix: Water

Lead

Analysis Batch: 351889

Prep	Type: 7	Total/NA
Prep	Batch:	351745
		RPD

70 - 130

Analyte	Result Qualifier	Result	Qualifier Unit	D	RPD	Limit
Arsenic	ND	ND	mg/L		NC	20
Lead	0.0045	0.00477	mg/L	-	7	20

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Lab Chronicle

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-030921 Lab Sample ID: 580-101655-1

Date Collected: 03/09/21 12:40 Date Received: 03/10/21 11:02

Matrix: Water

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	3510C			351783	03/11/21 12:01	JBT	TAL SEA
Į	Total/NA	Analysis	NWTPH-Dx		1	352027	03/15/21 13:18	ADB	TAL SEA

Lab Sample ID: 580-101655-2 Client Sample ID: HCC EFF-030921

Date Collected: 03/09/21 12:50 **Matrix: Water**

Date Received: 03/10/21 11:02

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			351783	03/11/21 12:01	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	352027	03/15/21 13:37	ADB	TAL SEA
Total/NA	Prep	200.8			351745	03/11/21 08:36	JCP	TAL SEA
Total/NA	Analysis	200.8		1	351889	03/12/21 11:13	FCW	TAL SEA

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Job ID: 580-101655-1

Accreditation/Certification Summary

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-101655-1

Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	02-19-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2901	11-05-21
Montana (UST)	State	NA	04-13-21
Oregon	NELAP	WA100007	11-05-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-20-00031	02-10-23

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Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-101655-1	Before GAC-030921	Water	03/09/21 12:40	03/10/21 11:02	
580-101655-2	HCC EFF-030921	Water	03/09/21 12:50	03/10/21 11:02	

Job ID: 580-101655-1

TestAmerica Seattle

Chain of Custody Record

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		8668	900 CO	
T115 4 5 4 5	DED IN Ch		Almai mee	· Trans

Tacoma, WA 98424-1317 phone 253.922.2310 fax 253.922.5047 Regulatory Program: _pw _NPDES _RCRA _pother: Client Contact	phone 253.922.2310 fax 253.922.5047	

hone 253.922.2310 fax 253.922.5047	Regu	latory Pro	gram:	DW	✓ NPDES		RCI	RA	o	ther:										TestAmerica Labo	ratories, In					
Client Contact	Project M	lanager: Pe	ete Kingst	on		Site	e Cor	ntact	: Ma	tt Bov	vser		Dat	e:			***************************************		***************************************	COC No:						
arallong Consulting	Tel/Fax: 4	125-394-41	46			Lab	Cor	ntact	: Kri	stine /	Ailen		Car	rrier:						of _2_ c	COCs					
75 5th Avenue Northwest		Analysis T	urnaround	d Time		П	9	-]												Sampler:						
saquah, Washington	CALEN	DAR DAYS	> WOI	RKING DAY	S		둝								ŀ				İ	For Lab Use Only:						
125) 295-0800 Phone	Analysis Turnaround Time CALENDAR DAYS TAT if different from Below SDAY 2 weeks 1 week 2 days 1 day Sample Type (C=Comp. G=Grab) Matrix Matrix Matrix Analysis Turnaround Time Analysis Turnar													Walk-in Client:												
25) 295-0850 FAX		2 weeks					provide the second seco					5 8	8												Lab Sampling:	
roject Name: Skykomish HCC System		1	week			۱۶I	≍ા≅	12			1 1															
ite:		2	9			S S	a.		ı										Job / SDG No.:							
/O # TT0100-S03	1 day						S 3	٩																		
		T	Sample	1		S	ŽĢ	S,				1		-	-											
	Sample	Sample	Type (C=Comp,		# of	terec	틸	tal A																		
Sample Identification	Date	Time	G≖Grab)	Matrix	Cont.		<u>Ľ</u>	۴			4									Sample Specific	Notes:					
Before GAC- ○3092 1	3/5/21	1270	Grab	w	2		х													***See instructions belo	w					
HCC EFF- 030921	3/9/21	1250	Grab	w	3		х	х							-					***See instructions belo	w					
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reservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=l pssible Hazard Identification:	NaUH; b= (Jiner	WWW.0000000000000000000000000000000000			-	60-18 GOOD 160	S CHOINCON	ienos	- 1 / A	foor	nav he	900	0000	d if e	l l		e ret	siner	longer than 1 month)						
re any samples from a listed EPA Hazardous Waste? Please L	ist anv EPA	Waste Co	des for the	samole	in the	ľ	asııh	ie Di	iapos	ai (A	1166 1	iay we	033	COSE	u 11 3	ангрі	es ar	6 160	a11100	nonger man i mommi						
omments Section if the lab is to dispose of the sample.			_																							
✓ Non-Hazard Flammable Skin Irritant	Poison	В	Unkno	wn		1	Γ'n	Return	to Clie	ent		√ Dis	sposal	by Lat	2		Агс	hive fo	or	Months						
pecial Instructions/QC Requirements & Comments: 1) DxRx	requires s	special lim	its 0.208 n	ng/L, cui	nulative	, Fi	nal V	olun	ne of	2 mL	requ	ired 2) No	silic	a get	clear	nup n	eede	d for	Dx						
								ρ	کر یا د	v.1	W	51	6	M	L	c.55	ة س	JL	5 3	5/10/21						
Custody Seals Intact: Yes No	Custody S	eal No							Cool	er Ten	np. (°	C): Ob	s'd:	·		Corr's	d:			5 / 10 / 入 (Therm ID No.:						
elinguished by:	Company:	- 11		Date/Ti	me:	R	eceiv	ved b	οy: /	۸. ۱		7	-	C	ompa	iny:			- 1	Date/Time:	۹.					
elinquished by: Mr Prin	Company:	prolo	<u> </u>	3/10/24	1015					1M	1	Z			ompa ETA	<u>. 38</u>	<u> </u>			¥10/21 11	ひ <u></u>					
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Therm. ID: 60 Cor: O.6 Cnc: 1. () <u> </u>			D.4. (**)		1	N = = - 7	المراجعة	m 2 - 1					- _	'n m -					Date/Times						
Therm. ID: Cor: O.6 ° Unc: . (any:			Date/Ti	ne:	K	(ecei	ved ii	n Lat	orator	y by:				ompa	ıny:				Date/Time:						
Packing: S. Abolf 1785		*************************************		1													For	m Na	CA-	C-WI-002, Rev. 4.18, da	ted 9/5/201					
Cust. Seal: Yes_NoX_ Lab Cour:_>																	. 011	,x, 14U	. JA	- 111-002, 1(67, 7, 10, UC						
Blue Ice, (We) Dry, None Other:					Page	12	of '	13													3/1					

Client: Farallon Consulting LLC

Job Number: 580-101655-1

List Source: Eurofins TestAmerica, Seattle

Login Number: 101655

Samples are received within Holding Time (excluding tests with immediate

There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

List Number: 1

HTs)

MS/MSDs

<6mm (1/4").

Creator: Vallelunga, Diana L

Sample containers have legible labels.

Sample collection date/times are provided.

Appropriate sample containers are used.

Containers are not broken or leaking.

Sample bottles are completely filled. Sample Preservation Verified.

Multiphasic samples are not present.

Residual Chlorine Checked.

Samples do not require splitting or compositing.

oreator. Vaneranga, Diana E		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	

True

True

True

True

True True

True

True

N/A

True

True

N/A

Eurofins TestAmerica, Seattle



Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-101848-1

Client Project/Site: BNSF Skykomish Rush NPDES

Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Knistine D. allen

Authorized for release by: 3/23/2021 4:30:32 PM Kristine Allen, Client Service Manager (253)248-4970 Kristine, Allen @ Eurofinset.com

Designee for

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

.....LINKS

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES Laboratory Job ID: 580-101848-1

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Case Narrative

Client: Farallon Consulting LLC

Job ID: 580-101848-1 Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-101848-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative 580-101848-1

Comments

No additional comments.

Receipt

The samples were received on 3/18/2021 11:02 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.7° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-352444, so a LCS and LCSD were used instead.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-101848-1

Project/Site: BNSF Skykomish Rush NPDES

Glossary

ML

MPN

MQL

NC

ND

NEG

POS

PQL

QC RER

RL

RPD

TEF

TEQ

TNTC

PRES

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

Eurofins TestAmerica, Seattle

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3/23/2021

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-101848-1

Project/Site: BNSF Skykomish Rush NPDES

Date Received: 03/18/21 11:02

Client Sample ID: Before GAC - 31821

Lab Sample ID: 580-101848-1 Date Collected: 03/18/21 08:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.62		0.062		mg/L		03/19/21 11:51	03/20/21 19:17	1
Motor Oil (>C24-C36)	0.54		0.091		mg/L		03/19/21 11:51	03/20/21 19:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	96		50 _ 150				03/19/21 11:51	03/20/21 19:17	1

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-101848-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: HCC EFF - 31821

Date Received: 03/18/21 11:02

Lab Sample ID: 580-101848-2 Date Collected: 03/18/21 08:00

Matrix: Water

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac #2 Diesel (C10-C24) ND 0.062 03/19/21 11:51 03/20/21 19:38 mg/L Motor Oil (>C24-C36) ND 0.091 03/19/21 11:51 03/20/21 19:38 mg/L Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 50 - 150 03/19/21 11:51 03/20/21 19:38 o-Terphenyl 86

QC Sample Results

Client: Farallon Consulting LLC

Matrix: Water

Matrix: Water

Surrogate

o-Terphenyl

Analysis Batch: 352497

Analysis Batch: 352497

Project/Site: BNSF Skykomish Rush NPDES

Lab Sample ID: MB 580-352444/1-A

Lab Sample ID: LCS 580-352444/2-A

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Client Sample ID: Method Blank

Prep Type: Total/NA

Job ID: 580-101848-1

Prep Batch: 352444

-	MB	МВ						•	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065		mg/L		03/19/21 11:51	03/20/21 18:18	1
Motor Oil (>C24-C36)	ND		0.096		mg/L		03/19/21 11:51	03/20/21 18:18	1

MB MB

%Recovery Qualifier

97

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac o-Terphenyl 80 50 - 150 03/19/21 11:51 03/20/21 18:18

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 352444

-		Spike	LCS	LCS				%Rec.
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)		0.500	0.439		mg/L		88	50 - 120
Motor Oil (>C24-C36)		0.500	0.488		mg/L		98	64 - 120
	LCS LCS							

Limits

50 - 150

Lab Sample ID: LCSD 580-352444/3-A

Matrix: Water

Analysis Batch: 352497

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 352444

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit #2 Diesel (C10-C24) 0.500 92 0.459 mg/L 50 - 120 26 Motor Oil (>C24-C36) 0.500 0.513 mg/L 103 64 - 120 5 24

LCSD LCSD Surrogate %Recovery Qualifier Limits o-Terphenyl 103 50 - 150

Eurofins TestAmerica, Seattle

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-101848-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC - 31821

Lab Sample ID: 580-101848-1 Date Collected: 03/18/21 08:00

Matrix: Water

Date Received: 03/18/21 11:02

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			352444	03/19/21 11:51	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	352497	03/20/21 19:17	TL1	TAL SEA

Lab Sample ID: 580-101848-2 Client Sample ID: HCC EFF - 31821

Date Collected: 03/18/21 08:00 Matrix: Water

Date Received: 03/18/21 11:02

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			352444	03/19/21 11:51	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	352497	03/20/21 19:38	TL1	TAL SEA

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC

Job ID: 580-101848-1

Project/Site: BNSF Skykomish Rush NPDES

Laboratory: Eurofins TestAmerica, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C553	02-17-22

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Sample Summary

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Lab Sample ID Client Sample ID Matrix Collected Received Asset ID 580-101848-1 Before GAC - 31821 Water 03/18/21 08:00 03/18/21 11:02 580-101848-2 HCC EFF - 31821 03/18/21 08:00 Water 03/18/21 11:02

Job ID: 580-101848-1

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TestAmerica Seattle

5755 8th Street East

Chain of Custody Record

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

Tacoma, WA 98424-1317 phone 253.922.2310 fax 253.922.5047	Regu	ulatory Pro	ogram:	bw	NPDES	5 /	RCRA	.A	Other:	:										TestAme	erica La	borate	ories,	Inc	
Client Contact	Project N	Manager: Pe	ete Kingst	ton		Site	Con	tact: M	Aatt Be	owser	r	Tr)ate:	3//	18/	2)		T	COC No:					
Farallong Consulting		425-394-41				Lab	Con	tact: K	risting	e Aller	n		Carrie						Ī		of <u>Z</u>	_ coc)s		
975 5th Avenue Northwest	····		Turnaround	d Time		П	9		TT	\Box	T	T	T		\top	T	\prod		\$	Sampler:	اسهد	W			
ssaquah, Washington	CALEN	DAR DAYS	Wor	RKING DAY	S] [8				11	,			Ì				- 1	For Lab Us	•				
425) 295-0800 Phone	TA	AT if different fr	from Below	300] [7	2 5						ĺ					i	۷	Walk-in Clie	∍nt:				
425) 295-0850 FAX		2	2 weeks		į	2	<u>َا قُ</u> ارَ			•	1 1							i	L	.ab Samplii	ng:				
Project Name: Skykomish HCC System		1	1 week			> ;	<u>ַ</u>			ĺ									L			-			
Site:					[2		2 days				2 days 9 9 9									ال	lob / SDG t	No.:			
NO # TT0100-S03		1	i day	day			2 ×					.	1						L						
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered S	NWTPH-Dx w/o silica gel cleanup													Sam	iple Spec	cific No	otes:		
Before GAC- 3 821	3/18/21		Grab	w	2	\coprod	х		1		11									**See instr	uctions t	below			
HCC EFF- 31821	3/18/21	800	Grab	w	2	\coprod	x		$\bot \bot$		\bot					_	Щ		*	**See instr	uctions t	oelow	,		
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Therm. ID: Tro Cor: 0.7 ° Unc: 1.0 °						\prod	TI		T				T '										ll –		
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Packing: Gobic FedEx: Packing: Gobic FedEx: Cust. Seal: Yes NoX UPS: Lab Cour: X Other:					ļ										-	580	-101	848 (Cha	in of Custo	ody	Egi 161(161	ii 		
	<u> </u>																								
reservation Used: 1= ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=	NaOH; 6= C	Other				21505 ASS	2			1															
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please L Comments Section if the lab is to dispose of the sample.	List any EPA	A Waste Coo			n the	Si	ample	a Dispe	osal (A fee	may	be as	sess	ed if s	samp	oles a	are r	etain	ed l	onger thar	ı 1 mont	th)	-		
Non-Hazard Flammable Skin Irritant	Poison I		Unknos					eturn to C					sal by L				Archive			Month	is				
pecial Instructions/QC Requirements & Comments: 1) DxR:	(requires s	special limi	its 0.208 m	1g/L, cun	nulative	e, Fin	ial Vo	ilume d	of 2 m	ıL reqi	uirea	2) N	o sile	ca get	t clea	anup	nee	ded t	for D)x					
Custody Seals Intact: Yes No	Custody Se							Co	oler Te	emp. ((°C); (Obs'd	-		Corr	r'd:_				nerm ID No			474777		
Relinquished by	Company:	rcier	3/18	Date/Tin	nej.s	O Ri	eceive	ed by:	D	1/1	2		\mathbb{Z}	Comp	any:	***************************************			D	ate/Time:	211	(20	94	Ç	
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Form Lab JLS 3/18/21

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Client: Farallon Consulting LLC

Job Number: 580-101848-1

Login Number: 101848 List Source: Eurofins TestAmerica, Seattle

List Number: 1

Creator: Vallelunga, Diana L

oroator. Vanolanga, Diana E		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	0.7/1.0
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-102050-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 4/1/2021 5:13:06 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

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Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Laboratory Job ID: 580-102050-1

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Job ID: 580-102050-1

Job ID: 580-102050-1

Laboratory: Eurofins FGS, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC Project: Skykomish HCC System Report Number: 580-102050-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/26/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 7.6 C.

The Field Sampler was not listed on the Chain of Custody.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-032621 (580-102050-1) and HCC EFF-032621 (580-102050-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 03/31/2021 and analyzed on 04/01/2021.

The (CCV 580-353382/21) recovered high biased for surrogate, o-Terphenyl. Since the analysis was followed by a successful calibration verification and the percentage recovery of this CCV is within control limits, data has been reported.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-353289, so a LCS and LCSD were used instead.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC

Project/Site: Skykomish HCC System

Job ID: 580-102050-1

Glossary

DL, RA, RE, IN

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** Detection Limit (DoD/DOE) DL

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

EDL Estimated Detection Limit (Dioxin
LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins FGS, Seattle

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4/1/2021

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-102050-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-032621 Lab Sample ID: 580-102050-1

Date Collected: 03/26/21 13:15

Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No								
Analyte	Result Qua	alifier F	L MD	L Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.44	0.00	33	mg/L		03/31/21 11:44	04/01/21 14:05	1
Motor Oil (>C24-C36)	0.34	0.09	93	mg/L		03/31/21 11:44	04/01/21 14:05	1
Surrogate	%Recovery Qua	alifier Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	91	50 - 150)			03/31/21 11:44	04/01/21 14:05	1

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Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-102050-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-032621 Lab Sample ID: 580-102050-2

Date Collected: 03/26/21 13:20 Matrix: Water

Date Received: 03/26/21 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.063		mg/L		03/31/21 11:44	04/01/21 14:25	1
Motor Oil (>C24-C36)	ND		0.093		mg/L		03/31/21 11:44	04/01/21 14:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	93		50 - 150				03/31/21 11:44	04/01/21 14:25	1

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4/1/2021

QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-102050-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-353289/1-A

Lab Sample ID: LCS 580-353289/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 353382

Analysis Batch: 353382

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 353289

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.065	mg/L		03/31/21 11:44	04/01/21 13:05	1
Motor Oil (>C24-C36)	ND	0.096	mg/L		03/31/21 11:44	04/01/21 13:05	1

MB MB

MR MR

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 88 50 - 150

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 353289

%Rec.

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
#2 Diesel (C10-C24)	0.500	0.532		mg/L		106	50 - 120	
Motor Oil (>C24-C36)	0.500	0.523		mg/L		105	64 - 120	

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 112 50 - 150

Lab Sample ID: LCSD 580-353289/3-A

Matrix: Water

Analysis Batch: 353382

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 353289**

Analysis Daten. 333302							Lieb De	itteri. St	JJ203
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.510		mg/L		102	50 - 120	4	26
Motor Oil (>C24-C36)	0.500	0.506		mg/L		101	64 - 120	3	24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 110 50 - 150 o-Terphenyl

Eurofins FGS, Seattle

4/1/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-102050-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-032621

Lab Sample ID: 580-102050-1 Date Collected: 03/26/21 13:15

Matrix: Water

Date Received: 03/26/21 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353289	03/31/21 11:44	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353382	04/01/21 14:05	JKM	TAL SEA

Lab Sample ID: 580-102050-2 Client Sample ID: HCC EFF-032621

Matrix: Water

Date Collected: 03/26/21 13:20 Date Received: 03/26/21 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353289	03/31/21 11:44	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353382	04/01/21 14:25	JKM	TAL SEA

Laboratory References:

TAL SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-102050-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C553	02-17-22

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-102050-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-102050-1	Before GAC-032621	Water	03/26/21 13:15	03/26/21 16:45	
580-102050-2	HCC EFF-032621	Water	03/26/21 13:20	03/26/21 16:45	

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TestAmerica Seattle

5755 8th Street East

Chain of Custody Record

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Tacoma, WA 98424-1317 phone 253.922.2310 fax 253.922.5047 Regulatory Program: Dw RCRA Other: TestAmerica Laboratories, Inc. **Client Contact** Project Manager: Pete Kingston COC No: Site Contact: Matt Bowser Date: 3/26/21 Farallong Consulting Tei/Fax: 425-394-4146 Lab Contact: Kristine Allen Carrier: of 🗻 COCs 975 5th Avenue Northwest **Analysis Turnaround Time** Sampler: Issaquah, Washington CALENDAR DAYS WORKING DAYS For Lab Use Only: (425) 295-0800 Phone XTAT if different from Below Walk-in Client: NWTPH-Dx w/o silica get 425) 295-0850 FAX 2 weeks Lab Sampling: Project Name: Skykomish HCC System 1 week Site: 2 days Job / SDG No.: WO # TT0100-S03 1 day Sample Type Sample Sample (C=Comp. Sample Identification Date Time Matrix Cont. G=Grab) Sample Specific Notes: Before GAC- () つつなしよい 3/21/2 Grab W 2 **See instructions below Blauba 1320 032V21 HCC EFF-Grab W 2 **See instructions below Therm. ID: A1 Cor: 76 o Unc: 8.1 o
Cooler Dsc: 45 Bloc Packing: UPS: Cust. Seal: Yes__No * Lab Cour: Blue Ice, Wet, Dry, None Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. ✓ Non-Hazard Skin Irritant Flammable Poison B Unknown Return to Client → Disposal by Lab Archive for_ Months Special Instructions/QC Requirements & Comments: 1) DxRx requires special limits 0.208 mg/L, cumulative, Final Volume of 2 mL required 2) No silica get cleanup needed for Dx Custody Seals Intact: Yes No Custody Seal No.: Cooler Temp. (°C): Obs'd: Corr'd: Therm ID No. Relinquished by/ Company: Howallow Date/Time: サロスシンション・ロール 1ASe2 Relinquished by: Company: Date/Time: Company: Date/Time: Relinquished by: Company: Date/Time: Received in Laboratory by: Company: Date/Time:

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

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Client: Farallon Consulting LLC

Job Number: 580-102050-1

Login Number: 102050

List Number: 1

Creator: Blankinship, Tom X

List Source: Eurofins TestAmerica, Seattle

Creator. Diankinship, Toni A		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-102053-1

Client Project/Site: BNSF Skykomish Semi Annual

Sampling Event: Skykomish HCC System

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Peter Kingston

Authorized for release by: 4/9/2021 3:55:42 PM

Nathan Lewis, Project Manager I

(253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

Review your project results through

Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Semi Annual Laboratory Job ID: 580-102053-1

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Case Narrative

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Semi Annual

Job ID: 580-102053-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-102053-1

Comments

No additional comments.

Receipt

The samples were received on 3/26/2021 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 10 coolers at receipt time were 1.7° C, 1.9° C, 2.0° C, 2.0° C, 2.1° C, 2.4° C, 3.0° C, 3.1° C, 3.2° C and 4.0° C.

GC Semi VOA

Method NWTPH-Dx: Continuing calibration verification (CCV) standard associated with batch 580-353560 recovered outside %Drift acceptance criteria for o-Terphenyl surrogate. The %Recovery is within acceptance criteria for the surrogate in the CCV and associated samples; therefore, the data are qualified and reported.

Method NWTPH-Dx: Continuing calibration verification (CCV) standard associated with batch 580-353912 recovered outside %Drift acceptance criteria for surrogate, o-Terphenyl. The %Recovery is within acceptance criteria for the surrogate in the CCV and associated samples; therefore, the data are qualified and reported.

Method NWTPH-Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: 1C-W-8-032521 (580-102053-33) and 1C-W-4-032521 (580-102053-34).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-353498, so a LCS and LCSD were used instead.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-353681, so a LCS and LCSD were used instead.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-353765, so a LCS and LCSD were used instead.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-353871, so a LCS and LCSD were used instead.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 580-102053-1

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Glossary

DL, RA, RE, IN

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** Detection Limit (DoD/DOE) DL

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control** 0C

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

4/9/2021

Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Lab Sample ID: 580-102053-1 Client Sample ID: S2-BU-032421 Date Collected: 03/24/21 16:31

Matrix: Water

Method: NWTPH-Dx - No	orthwest - Semi-Vo	olatile Pet	roleum Prod	ucts (G0	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/02/21 14:29	04/05/21 22:55	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		04/02/21 14:29	04/05/21 22:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	65		50 - 150				04/02/21 14:29	04/05/21 22:55	1

Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Lab Sample ID: 580-102053-2 Client Sample ID: S2-BD-032421 Date Collected: 03/24/21 16:31

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/02/21 14:29	04/05/21 23:34	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/02/21 14:29	04/05/21 23:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	77		50 - 150				04/02/21 14:29	04/05/21 23:34	1

Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Lab Sample ID: 580-102053-3 Client Sample ID: S1-AU-032421 Date Collected: 03/24/21 17:19

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/07/21 11:34	04/08/21 20:53	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/07/21 11:34	04/08/21 20:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	86	·	50 - 150				04/07/21 11:34	04/08/21 20:53	1

Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Lab Sample ID: 580-102053-4 Client Sample ID: S1-AD-032421 Date Collected: 03/24/21 17:19

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/02/21 14:29	04/06/21 00:14	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/02/21 14:29	04/06/21 00:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	74		50 - 150				04/02/21 14:29	04/06/21 00:14	1

Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Lab Sample ID: 580-102053-5 Client Sample ID: S1-BU-032421 Date Collected: 03/24/21 17:23

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/02/21 14:29	04/06/21 00:34	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/02/21 14:29	04/06/21 00:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150				04/02/21 14:29	04/06/21 00:34	1

Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Lab Sample ID: 580-102053-6 Client Sample ID: S1-BD-032421 Date Collected: 03/24/21 17:25

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		04/02/21 14:29	04/06/21 00:54	1
Motor Oil (>C24-C36)	0.19		0.096	0.096	mg/L		04/02/21 14:29	04/06/21 00:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150				04/02/21 14:29	04/06/21 00:54	1

Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Lab Sample ID: 580-102053-7 Client Sample ID: S2-AU-032421 Date Collected: 03/24/21 16:43

Matrix: Water

Date Received: 03/26/21 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.063	0.063	mg/L		04/02/21 14:29	04/06/21 01:14	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/02/21 14:29	04/06/21 01:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	77		50 - 150				04/02/21 14:29	04/06/21 01:14	1

Eurofins FGS, Seattle

Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Lab Sample ID: 580-102053-8 Client Sample ID: S2-AD-032421 Date Collected: 03/24/21 16:38

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.063	0.063	mg/L		04/02/21 14:29	04/06/21 01:34	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/02/21 14:29	04/06/21 01:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	70		50 - 150				04/02/21 14:29	04/06/21 01:34	1

Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: S3-AD-032521 Lab Sample ID: 580-102053-9

Date Collected: 03/25/21 09:18 Matrix: Water

Method: NWTPH-Dx - No	orthwest - Semi-Vol	latile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.062	0.062	mg/L		04/02/21 14:29	04/06/21 01:54	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		04/02/21 14:29	04/06/21 01:54	1
Surrogate	%Recovery Q	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	77		50 - 150				04/02/21 14:29	04/06/21 01:54	1

Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 09:18 Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No	orthwest - Semi-Vo	latile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.062	0.062	mg/L		04/06/21 12:14	04/07/21 20:39	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/21 12:14	04/07/21 20:39	1
Surrogate	%Recovery (Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	67		50 - 150				04/06/21 12:14	04/07/21 20:39	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 09:47 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/06/21 12:14	04/07/21 20:59	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/21 12:14	04/07/21 20:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	70		50 - 150				04/06/21 12:14	04/07/21 20:59	1

Client: Farallon Consulting LLC

Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 09:47

Matrix: Water

Method: NWTPH-Dx - No	orthwest - Semi-Vol	latile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.062	0.062	mg/L		04/06/21 12:14	04/07/21 21:19	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		04/06/21 12:14	04/07/21 21:19	1
Surrogate	%Recovery Q	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	70		50 - 150				04/06/21 12:14	04/07/21 21:19	1

Client: Farallon Consulting LLC

Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 10:15 Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No	orthwest - Semi-Vol	latile Peti	oleum Prod	ucts (GC	C)				
Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.062	0.062	mg/L		04/06/21 12:14	04/07/21 21:39	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/21 12:14	04/07/21 21:39	1
Surrogate	%Recovery Q	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	72		50 - 150				04/06/21 12:14	04/07/21 21:39	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 10:15 Matrix: Water

Date Received: 03/26/21 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/06/21 12:14	04/07/21 21:59	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/21 12:14	04/07/21 21:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	67		50 - 150				04/06/21 12:14	04/07/21 21:59	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 10:08 Matrix: Water

Date Received: 03/26/21 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/06/21 12:14	04/07/21 22:18	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/21 12:14	04/07/21 22:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	74		50 - 150				04/06/21 12:14	04/07/21 22:18	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 10:41 Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No	orthwest - Semi-Vo	olatile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/06/21 12:14	04/07/21 22:39	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/21 12:14	04/07/21 22:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	70		50 - 150				04/06/21 12:14	04/07/21 22:39	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 11:28 Matrix: Water

Date Received: 03/26/21 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/06/21 12:14	04/07/21 23:18	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/21 12:14	04/07/21 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	72		50 - 150				04/06/21 12:14	04/07/21 23:18	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 11:28 Matrix: Water

Date Received: 03/26/21 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/06/21 12:14	04/07/21 23:38	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/21 12:14	04/07/21 23:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	74		50 - 150				04/06/21 12:14	04/07/21 23:38	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 12:04 Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No				•	•		Duamanad	Amalumad	Dil Foo
Analyte	Result	Qualifier	RL	MDL	Unit	ט	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/06/21 12:14	04/07/21 23:58	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/21 12:14	04/07/21 23:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	68		50 - 150				04/06/21 12:14	04/07/21 23:58	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 12:04 Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No	orthwest - Semi-Vol	latile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.062	0.062	mg/L		04/06/21 12:14	04/08/21 00:18	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/21 12:14	04/08/21 00:18	1
Surrogate	%Recovery G	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	72		50 - 150				04/06/21 12:14	04/08/21 00:18	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: 5-W-14-032521 Lab Sample ID: 580-102053-21

Date Collected: 03/25/21 11:35 **Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/06/21 12:14	04/08/21 00:38	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/21 12:14	04/08/21 00:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	69		50 - 150				04/06/21 12:14	04/08/21 00:38	1

Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 10:50 Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No	orthwest - Semi-Vo	olatile Pet	roleum Prod	ucts (G0	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.063	0.063	mg/L		04/06/21 12:14	04/08/21 00:58	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/21 12:14	04/08/21 00:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	71		50 - 150				04/06/21 12:14	04/08/21 00:58	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 10:10 Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No	orthwest - Semi-Volatile I	Petroleum Prod	lucts (GC	C)				
Analyte	Result Qualifie	r RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.063	0.063	mg/L		04/06/21 12:14	04/08/21 01:18	1
Motor Oil (>C24-C36)	ND	0.093	0.093	mg/L		04/06/21 12:14	04/08/21 01:18	1
Surrogate	%Recovery Qualifie	r Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	68	50 - 150				04/06/21 12:14	04/08/21 01:18	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 09:35 East Sample 15: 666 162666 24

Date Received: 03/26/21 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/06/21 12:14	04/08/21 01:38	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/21 12:14	04/08/21 01:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	62		50 - 150				04/06/21 12:14	04/08/21 01:38	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 13:09 Matrix: Water

Date Received: 03/26/21 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/06/21 12:14	04/08/21 01:58	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/21 12:14	04/08/21 01:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	66		50 - 150				04/06/21 12:14	04/08/21 01:58	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 13:15 Matrix: Water

Date Received: 03/26/21 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/06/21 12:14	04/08/21 02:18	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/21 12:14	04/08/21 02:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	68		50 - 150				04/06/21 12:14	04/08/21 02:18	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: GW-2-032521 Lab Sample ID: 580-102053-27

Date Collected: 03/25/21 16:20 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/06/21 12:14	04/08/21 20:44	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/06/21 12:14	04/08/21 20:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150				04/06/21 12:14	04/08/21 20:44	1

Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 15:15 East Sample 15: 666 162666 26

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.063	0.063	mg/L		04/06/21 12:14	04/08/21 21:04	1
Motor Oil (>C24-C36)	ND		0.094	0.094	mg/L		04/06/21 12:14	04/08/21 21:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	71		50 - 150				04/06/21 12:14	04/08/21 21:04	1

Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 12:50 Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No	orthwest - Semi-Vo	olatile Pet	roleum Prod	ucts (G0	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.24		0.062	0.062	mg/L		04/06/21 12:14	04/08/21 21:24	1
Motor Oil (>C24-C36)	0.35		0.092	0.092	mg/L		04/06/21 12:14	04/08/21 21:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	79		50 - 150				04/06/21 12:14	04/08/21 21:24	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 17:10 Matrix: Water

Date Received: 03/26/21 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/07/21 11:34	04/08/21 21:13	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/07/21 11:34	04/08/21 21:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenvl	79		50 - 150				04/07/21 11:34	04/08/21 21:13	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/07/21 11:34	04/08/21 21:33	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/07/21 11:34	04/08/21 21:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	85		50 - 150				04/07/21 11:34	04/08/21 21:33	1

Client: Farallon Consulting LLC

Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: GW-4-032521 Lab Sample ID: 580-102053-32

Date Collected: 03/25/21 14:15 Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No	orthwest - Semi-Vo	olatile Pet	roleum Prod	ucts (G0	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/07/21 11:34	04/08/21 21:53	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/07/21 11:34	04/08/21 21:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	86		50 - 150				04/07/21 11:34	04/08/21 21:53	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 17:00 Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No	orthwest - Semi-Vol	latile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.089		0.062	0.062	mg/L		04/07/21 11:34	04/08/21 22:13	1
Motor Oil (>C24-C36)	0.11		0.092	0.092	mg/L		04/07/21 11:34	04/08/21 22:13	1
Surrogate	%Recovery Q	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	92		50 - 150				04/07/21 11:34	04/08/21 22:13	1

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Client: Farallon Consulting LLC

Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 16:15 Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No	orthwest - Semi-Volat	tile Petroleum P	roducts (G	C)				
Analyte	Result Qua	alifier R	L MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.10	0.06	2 0.062	mg/L		04/07/21 11:34	04/08/21 22:33	1
Motor Oil (>C24-C36)	0.11	0.09	2 0.092	mg/L		04/07/21 11:34	04/08/21 22:33	1
Surrogate	%Recovery Qua	alifier Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	81	50 - 150	_			04/07/21 11:34	04/08/21 22:33	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 14:55 East Sample 15: 666 162666 66

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No	orthwest - Semi-Vo	latile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.062	0.062	mg/L		04/07/21 11:34	04/08/21 22:53	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/07/21 11:34	04/08/21 22:53	1
Surrogate	%Recovery (Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150				04/07/21 11:34	04/08/21 22:53	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: GW-1-032521 Lab Sample ID: 580-102053-36

Date Collected: 03/25/21 15:31 Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No Analyte		Qualifier	RL	MDL	•	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	·	0.062	0.062	mg/L		04/07/21 11:34	04/08/21 23:33	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/07/21 11:34	04/08/21 23:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	82		50 - 150				04/07/21 11:34	04/08/21 23:33	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: EW-1-032521 Lab Sample ID: 580-102053-37

Date Collected: 03/25/21 15:57

Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No	orthwest - Semi-Vola	atile Petr	oleum Prod	ucts (GC	C)				
Analyte	Result Qu	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.062	0.062	mg/L		04/07/21 11:34	04/08/21 23:54	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		04/07/21 11:34	04/08/21 23:54	1
Surrogate	%Recovery Qu	ualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	79		50 - 150				04/07/21 11:34	04/08/21 23:54	1

Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/25/21 16:51 Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No	rthwest - Semi-Volati	ile Petroleum Prod	ucts (GC	C)				
Analyte	Result Qua	alifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.18	0.062	0.062	mg/L		04/08/21 12:15	04/08/21 23:03	1
Motor Oil (>C24-C36)	0.54	0.092	0.092	mg/L		04/08/21 12:15	04/08/21 23:03	1
Surrogate	%Recovery Qua	alifier Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	77	50 - 150				04/08/21 12:15	04/08/21 23:03	1

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Client: Farallon Consulting LLC

Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: MW-4-032621 Lab Sample ID: 580-102053-39

Date Collected: 03/26/21 09:51

Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No	rthwest - Semi-Vola	atile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.092		0.062	0.062	mg/L		04/08/21 12:15	04/08/21 23:23	1
Motor Oil (>C24-C36)	0.34		0.092	0.092	mg/L		04/08/21 12:15	04/08/21 23:23	1
Surrogate	%Recovery Q	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	84		50 - 150				04/08/21 12:15	04/08/21 23:23	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/26/21 10:36 Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No	orthwest - Semi-Vo	latile Pet	roleum Prod	ucts (G0	C)				
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.66		0.062	0.062	mg/L		04/08/21 12:15	04/08/21 23:43	1
Motor Oil (>C24-C36)	0.38		0.091	0.091	mg/L		04/08/21 12:15	04/08/21 23:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	88		50 - 150				04/08/21 12:15	04/08/21 23:43	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/26/21 11:35 Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No	orthwest - Semi-Vol	latile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.062	0.062	mg/L		04/08/21 12:15	04/09/21 00:03	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/08/21 12:15	04/09/21 00:03	1
Surrogate	%Recovery 0	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	89		50 - 150				04/08/21 12:15	04/09/21 00:03	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/26/21 09:55 Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No	rthwest - Semi-Volat	tile Petroleum	Produ	cts (GC	;)				
Analyte	Result Qua	alifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.081	0.	.062	0.062	mg/L		04/08/21 12:15	04/09/21 00:23	1
Motor Oil (>C24-C36)	0.16	0.	.092	0.092	mg/L		04/08/21 12:15	04/09/21 00:23	1
Surrogate	%Recovery Qua	alifier Limit	s				Prepared	Analyzed	Dil Fac
o-Terphenyl	86	50 - 1	50				04/08/21 12:15	04/09/21 00:23	1

Client: Farallon Consulting LLC

Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/26/21 10:40 Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No	rthwest - Semi-Volati	tile Petroleum Prod	ducts (GC	C)				
Analyte	Result Qua	alifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.091	0.062	0.062	mg/L		04/08/21 12:15	04/09/21 00:43	1
Motor Oil (>C24-C36)	0.16	0.091	0.091	mg/L		04/08/21 12:15	04/09/21 00:43	1
Surrogate	%Recovery Qua	alifier Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	82	50 - 150				04/08/21 12:15	04/09/21 00:43	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/26/21 10:00 Matrix: Water

Date Received: 03/26/21 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.66		0.062	0.062	mg/L		04/08/21 12:15	04/09/21 01:03	1
Motor Oil (>C24-C36)	0.47		0.092	0.092	mg/L		04/08/21 12:15	04/09/21 01:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	91		50 - 150				04/08/21 12:15	04/09/21 01:03	1

Analyte	Result Qualifie	r RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.17	0.062	0.062	mg/L		04/08/21 12:15	04/08/21 20:04	
Motor Oil (>C24-C36)	ND	0.092	0.092	mg/L		04/08/21 12:15	04/08/21 20:04	1
Surrogate	%Recovery Qualifie	r Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	95	50 - 150				04/08/21 12:15	04/08/21 20:04	

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/26/21 10:05 Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No	rthwest - Semi-Vola	atile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.31		0.062	0.062	mg/L		04/08/21 12:15	04/09/21 01:42	1
Motor Oil (>C24-C36)	0.29		0.092	0.092	mg/L		04/08/21 12:15	04/09/21 01:42	1
Surrogate	%Recovery Q	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150				04/08/21 12:15	04/09/21 01:42	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/26/21 11:10 Matrix: Water

Date Received: 03/26/21 16:45

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.40		0.062	0.062	mg/L		04/08/21 12:15	04/09/21 02:02	1
Motor Oil (>C24-C36)	0.37		0.092	0.092	mg/L		04/08/21 12:15	04/09/21 02:02	1
Surrogate	%Recovery (Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	85		50 - 150				04/08/21 12:15	04/09/21 02:02	1

Analyte	Result Qualifie	r RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.067	0.062	0.062	mg/L		04/08/21 12:15	04/08/21 20:24	1
Motor Oil (>C24-C36)	ND	0.092	0.092	mg/L		04/08/21 12:15	04/08/21 20:24	1
Surrogate	%Recovery Qualifie	r Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	84	50 - 150				04/08/21 12:15	04/08/21 20:24	

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/26/21 11:15 Matrix: Water

Date Received: 03/26/21 16:45

Method: NWTPH-Dx - No	rthwest - Semi-Vol	latile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.39		0.062	0.062	mg/L		04/08/21 12:15	04/09/21 02:22	1
Motor Oil (>C24-C36)	0.38		0.092	0.092	mg/L		04/08/21 12:15	04/09/21 02:22	1
Surrogate	%Recovery Q	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	85		50 - 150				04/08/21 12:15	04/09/21 02:22	1

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Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 03/26/21 09:00 Matrix: Water

Date Received: 03/26/21 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/08/21 12:15	04/09/21 02:41	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		04/08/21 12:15	04/09/21 02:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	79		50 - 150				04/08/21 12:15	04/09/21 02:41	1

Job ID: 580-102053-1

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Semi Annual

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-353498/1-A

Lab Sample ID: LCS 580-353498/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 353671

Analysis Batch: 353671

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 353498

MB MB Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Analyte #2 Diesel (C10-C24) ND 0.065 0.065 mg/L 04/02/21 14:29 04/05/21 21:55 Motor Oil (>C24-C36) ND 0.096 0.096 mg/L 04/02/21 14:29 04/05/21 21:55

MB MB

Surrogate %Recovery Qualifier I imite Prepared Analyzed Dil Fac o-Terphenyl 78 50 - 150 04/02/21 14:29 04/05/21 21:55

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 353498

Spike LCS LCS %Rec. Added Result Qualifier Limits **Analyte** Unit D %Rec 0.500 50 - 120 #2 Diesel (C10-C24) 0.449 mg/L 90 Motor Oil (>C24-C36) 0.500 0.514 103 64 - 120 mg/L

LCS LCS

%Recovery Qualifier Limits Surrogate o-Terphenyl 50 - 150 95

Lab Sample ID: LCSD 580-353498/3-A

Matrix: Water

Analysis Batch: 353671

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 353498

Spike LCSD LCSD %Rec. **RPD** Result Qualifier Limits **RPD** Analyte Added Unit D %Rec Limit #2 Diesel (C10-C24) 0.500 0.433 87 50 - 120 mg/L 26 Motor Oil (>C24-C36) 0.500 0.490 98 64 - 120 mg/L 5 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 50 - 150

Lab Sample ID: MB 580-353681/1-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 353818

Prep Type: Total/NA

Prep Batch: 353681

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac #2 Diesel (C10-C24) ND 0.065 0.065 mg/L 04/06/21 12:14 04/07/21 19:39 Motor Oil (>C24-C36) ND 0.096 0.096 mg/L 04/06/21 12:14 04/07/21 19:39

MB MB

MB MB

Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed o-Terphenyl 62 50 - 150

Lab Sample ID: LCS 580-353681/2-A

Matrix: Water

Analysis Batch: 353818

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 353681

LCS LCS Spike %Rec. %Rec Added Result Qualifier Unit Limits Analyte D #2 Diesel (C10-C24) 0.500 0.382 mg/L 76 50 - 120 Motor Oil (>C24-C36) 0.500 0.475 mg/L 95 64 - 120

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Project/Site: BNSF Skykomish Semi Annual

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 580-353681/2-A

Lab Sample ID: LCSD 580-353681/3-A

Matrix: Water

Matrix: Water

Analysis Batch: 353818

Analysis Batch: 353818

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 353681

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 90 50 - 150

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 353681

Spike LCSD LCSD %Rec. **RPD** RPD Added Result Qualifier Limits Limit **Analyte** Unit %Rec #2 Diesel (C10-C24) 2 0.500 0.391 mg/L 78 50 - 120 26 mg/L Motor Oil (>C24-C36) 0.500 0.463 93 64 - 120 3 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 86 50 - 150

Lab Sample ID: MB 580-353765/1-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 353915

Prep Type: Total/NA

Prep Batch: 353765

MB MB

Result Qualifier MDL Unit Analyte RL Prepared Analyzed Dil Fac #2 Diesel (C10-C24) 0.065 0.065 mg/L 04/07/21 11:34 04/08/21 19:52 ND Motor Oil (>C24-C36) ND 0.096 0.096 mg/L 04/07/21 11:34 04/08/21 19:52

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed o-Terphenyl 81 50 - 150 04/07/21 11:34 04/08/21 19:52

Lab Sample ID: LCS 580-353765/2-A **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 353915

Prep Type: Total/NA **Prep Batch: 353765**

LCS LCS %Rec. Spike Analyte Added Result Qualifier Unit %Rec Limits #2 Diesel (C10-C24) 0.500 0.420 84 50 - 120 mg/L Motor Oil (>C24-C36) 0.500 0.470 mg/L 94 64 - 120

LCS LCS

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl

Lab Sample ID: LCSD 580-353765/3-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Water

Analysis Batch: 353915

Prep Type: Total/NA

Prep Batch: 353765 RPD %Rec.

LCSD LCSD Spike Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 26 #2 Diesel (C10-C24) 0.500 0.446 mg/L 89 50 - 120 6 Motor Oil (>C24-C36) 0.500 0.485 97 mg/L 64 - 12024

LCSD LCSD

%Recovery Qualifier Limits Surrogate o-Terphenyl 50 - 150 89

Eurofins FGS, Seattle

Job ID: 580-102053-1

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Semi Annual

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 580-353871/1-A

Lab Sample ID: LCS 580-353871/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 353912

Analysis Batch: 353912

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 353871

	MB MB							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.065	0.065	mg/L		04/08/21 12:15	04/08/21 22:04	1
Motor Oil (>C24-C36)	ND	0.096	0.096	mg/L		04/08/21 12:15	04/08/21 22:04	1
	MB MB							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac o-Terphenyl 78 50 - 150 04/08/21 12:15 04/08/21 22:04

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 353871

Spike LCS LCS %Rec. Added Result Qualifier Limits **Analyte** Unit D %Rec #2 Diesel (C10-C24) 0.500 50 - 120 0.493 mg/L 99 Motor Oil (>C24-C36) 0.500 0.529 106 64 - 120 mg/L

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 101 50 - 150

Lab Sample ID: LCSD 580-353871/3-A

Matrix: Water

Analysis Batch: 353912

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 353871

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.457		mg/L		91	50 - 120	8	26
Motor Oil (>C24-C36)	0.500	0.508		mg/L		102	64 - 120	4	24

LCSD LCSD

MB MB

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Lab Sample ID: MB 580-353871/1-B **Matrix: Water**

Analysis Batch: 353912

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 353871

Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		04/08/21 12:15	04/08/21 19:05	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		04/08/21 12:15	04/08/21 19:05	1
	MB N	1B							

Surrogate %Recovery Qualifier

Limits Prepared Analyzed o-Terphenyl 84 50 - 150 04/08/21 12:15 04/08/21 19:05

Lab Sample ID: LCS 580-353871/2-B

Matrix: Water Prep Type: Total/NA

Analysis Batch: 353912 Spike LCS LCS %Rec.

Added Result Qualifier Limits Analyte Unit %Rec #2 Diesel (C10-C24) 0.500 0.496 99 50 - 120 mg/L Motor Oil (>C24-C36) 0.500 0.518 mg/L 104 64 - 120

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Dil Fac

Client Sample ID: Lab Control Sample

Prep Batch: 353871

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QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup (Continued)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
o-Terphenyl	101		50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 580-353871/3-B

Matrix: Water

Prep Type: Total/NA Prep Batch: 353871 Analysis Batch: 353912

	S	oike LCSD	LCSD			%Rec.		RPD
Analyte	Ac	ded Result	t Qualifier Uni	t D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)		500 0.454	mg/	L _	91	50 - 120	9	26
Motor Oil (>C24-C36)	0	500 0.508	B mg/	'L	102	64 - 120	2	24

LCSD LCSD

Surrogate	%Recovery Qualifi	er Limits
o-Terphenyl	95	50 - 150

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: S2-BU-032421

Date Collected: 03/24/21 16:31 Date Received: 03/26/21 16:45 Lab Sample ID: 580-102053-1

Matrix: Water

Job ID: 580-102053-1

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353498	04/02/21 14:29	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353671	04/05/21 22:55	JKM	TAL SEA

Client Sample ID: S2-BD-032421

Date Collected: 03/24/21 16:31 Date Received: 03/26/21 16:45

Lab Sample ID: 580-102053-2

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353498	04/02/21 14:29	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353671	04/05/21 23:34	JKM	TAL SEA

Client Sample ID: S1-AU-032421

Date Collected: 03/24/21 17:19 Date Received: 03/26/21 16:45 Lab Sample ID: 580-102053-3

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353765	04/07/21 11:34	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353915	04/08/21 20:53	T1W	TAL SEA

Client Sample ID: S1-AD-032421

Date Collected: 03/24/21 17:19

Date Received: 03/26/21 16:45

Lab Sample ID: 580-102053-4

Matrix: Water

		Batch	Batch		Dilution	Batch	Prepared		
Pre	ер Туре	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Tot	al/NA	Prep	3510C			353498	04/02/21 14:29	JBT	TAL SEA
Tot	tal/NA	Analysis	NWTPH-Dx		1	353671	04/06/21 00:14	JKM	TAL SEA

Client Sample ID: S1-BU-032421

Date Collected: 03/24/21 17:23

Date Received: 03/26/21 16:45

Lab Sample ID: 580-102053-5 **Matrix: Water**

Batch **Batch** Dilution Batch Prepared Prep Type Type Method Factor Number or Analyzed Run Analyst I ab Total/NA 353498 04/02/21 14:29 TAL SEA Prep 3510C JBT Total/NA Analysis NWTPH-Dx 353671 04/06/21 00:34 JKM TAL SEA 1

Client Sample ID: S1-BD-032421

Date Collected: 03/24/21 17:25

Date Received: 03/26/21 16:45

Lab Sample ID: 580-102053-6

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353498	04/02/21 14:29	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353671	04/06/21 00:54	JKM	TAL SEA

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: S2-AU-032421

Date Collected: 03/24/21 16:43 Date Received: 03/26/21 16:45 Lab Sample ID: 580-102053-7

Matrix: Water

Job ID: 580-102053-1

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353498	04/02/21 14:29	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353671	04/06/21 01:14	JKM	TAL SEA

Client Sample ID: S2-AD-032421

Date Collected: 03/24/21 16:38 Date Received: 03/26/21 16:45 Lab Sample ID: 580-102053-8

Matrix: Water

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	3510C			353498	04/02/21 14:29	JBT	TAL SEA
l	Total/NA	Analysis	NWTPH-Dx		1	353671	04/06/21 01:34	JKM	TAL SEA

Client Sample ID: S3-AD-032521

Date Collected: 03/25/21 09:18

Date Received: 03/26/21 16:45

Lab Sample ID: 580-102053-9

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353498	04/02/21 14:29	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353671	04/06/21 01:54	JKM	TAL SEA

Run

Dilution

Factor

1

Client Sample ID: S3-AU-032521

Batch

Type

Prep

Analysis

Batch

Method

3510C

NWTPH-Dx

Date Collected: 03/25/21 09:18

Date Received: 03/26/21 16:45

Prep Type

Total/NA

Total/NA

Lab Sample ID: 580-102053-10

Matrix: Water

 Batch Number
 Prepared or Analyzed 04/06/21 12:14
 Analyst JBT
 Lab TAL SEA

 353681
 04/07/21 20:39
 T1W
 TAL SEA

Client Sample ID: S3-BD-032521

Date Collected: 03/25/21 09:47

Date Received: 03/26/21 16:45

Lab Sample ID: 580-102053-11

Matrix: Water

Batch **Batch** Dilution Batch **Prepared** Method Factor Number or Analyzed **Prep Type** Type Run Analyst I ab Total/NA TAL SEA Prep 3510C 353681 04/06/21 12:14 JBT Total/NA Analysis NWTPH-Dx 353818 04/07/21 20:59 T1W TAL SEA 1

Client Sample ID: S3-BU-032521

Date Collected: 03/25/21 09:47

Date Received: 03/26/21 16:45

Lab	Sample	ID:	580-1	020	53-12
				4 .	107 4

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353681	04/06/21 12:14	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353818	04/07/21 21:19	T1W	TAL SEA

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: S3-CD-032521

Date Collected: 03/25/21 10:15 Date Received: 03/26/21 16:45

Lab Sample ID: 580-102053-13

Matrix: Water

Matrix: Water

Job ID: 580-102053-1

Batch Dilution Batch Ratch Prepared Method Number or Analyzed **Prep Type** Type Run **Factor** Analyst Lab Total/NA 3510C 353681 04/06/21 12:14 TAL SEA Prep Total/NA NWTPH-Dx 353818 04/07/21 21:39 Analysis T1\// TAL SEA 1

Client Sample ID: S3-CU-032521 Lab Sample ID: 580-102053-14

Date Collected: 03/25/21 10:15 **Matrix: Water** Date Received: 03/26/21 16:45

Batch Batch Dilution Batch Prepared Method Number **Prep Type** or Analyzed Type Run **Factor** Analyst Lab TAL SEA Total/NA Prep 3510C 353681 04/06/21 12:14 JBT Total/NA TAL SEA Analysis **NWTPH-Dx** 353818 04/07/21 21:59 T1W 1

Client Sample ID: S4-CU-032521

Lab Sample ID: 580-102053-15

Date Collected: 03/25/21 10:08 **Matrix: Water** Date Received: 03/26/21 16:45

Batch Batch Dilution Batch Prepared Method Number or Analyzed **Prep Type** Type Run **Factor** Analyst Lab TAL SEA Total/NA Prep 3510C 353681 04/06/21 12:14 JBT Total/NA Analysis NWTPH-Dx 353818 04/07/21 22:18 T1W TAL SEA 1

Client Sample ID: S4-CD-032521 Lab Sample ID: 580-102053-16

Date Collected: 03/25/21 10:41

Date Received: 03/26/21 16:45

Batch **Batch** Dilution Batch **Prepared Prep Type** Method Run Factor Number or Analyzed Type Analyst Lab Total/NA 3510C 04/06/21 12:14 JBT TAL SEA Prep 353681 Total/NA Analysis **NWTPH-Dx** 1 353818 04/07/21 22:39 T1W TAL SEA

Client Sample ID: S4-AD-032521 Lab Sample ID: 580-102053-17

Date Collected: 03/25/21 11:28 **Matrix: Water**

Date Received: 03/26/21 16:45

Batch Batch Dilution Batch **Prepared** Method Factor Number or Analyzed **Prep Type** Type Run Analyst I ab TAL SEA Total/NA Prep JBT 3510C 353681 04/06/21 12:14 Total/NA 04/07/21 23:18 TAL SEA Analysis **NWTPH-Dx** 1 353818

Client Sample ID: S4-AU-032521 Lab Sample ID: 580-102053-18

Date Collected: 03/25/21 11:28 **Matrix: Water** Date Received: 03/26/21 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353681	04/06/21 12:14	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353818	04/07/21 23:38	T1W	TAL SEA

Job ID: 580-102053-1

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: S4-BD-032521

Date Collected: 03/25/21 12:04 Date Received: 03/26/21 16:45 Lab Sample ID: 580-102053-19

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353681	04/06/21 12:14	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353818	04/07/21 23:58	T1W	TAL SEA

Client Sample ID: S4-BU-032521

Date Collected: 03/25/21 12:04 Date Received: 03/26/21 16:45

Lab Sample ID: 580-102053-20

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353681	04/06/21 12:14	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353818	04/08/21 00:18	T1W	TAL SEA

Client Sample ID: 5-W-14-032521

Date Collected: 03/25/21 11:35 Date Received: 03/26/21 16:45

Lab Sample ID: 580-102053-21

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353681	04/06/21 12:14	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353818	04/08/21 00:38	T1W	TAL SEA

Client Sample ID: 5-W-17-032521

Date Collected: 03/25/21 10:50 Date Received: 03/26/21 16:45

Lab Sample ID: 580-102053-22

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353681	04/06/21 12:14	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353818	04/08/21 00:58	T1W	TAL SEA

Client Sample ID: 5-W-16-032521

Date Collected: 03/25/21 10:10

Date Received: 03/26/21 16:45

Lab Sample ID: 580-102053-23 **Matrix: Water**

Batch **Batch** Dilution Batch Prepared Prep Type Method Factor Number or Analyzed Type Run Analyst I ab Total/NA 353681 04/06/21 12:14 JBT TAL SEA Prep 3510C Total/NA Analysis NWTPH-Dx 353818 04/08/21 01:18 T1W TAL SEA 1

Client Sample ID: 5-W-19-032521

Date Collected: 03/25/21 09:35

Date Received: 03/26/21 16:45

Lab Sample ID: 580-102053-24

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353681	04/06/21 12:14	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353818	04/08/21 01:38	T1W	TAL SEA

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: 5-W-18-032521

Date Collected: 03/25/21 13:09 Date Received: 03/26/21 16:45 Lab Sample ID: 580-102053-25

Matrix: Water

Matrix: Water

Job ID: 580-102053-1

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	3510C			353681	04/06/21 12:14	JBT	TAL SEA
l	Total/NA	Analysis	NWTPH-Dx		1	353818	04/08/21 01:58	T1W	TAL SEA

Lab Sample ID: 580-102053-26 Client Sample ID: 5-W-180-032521

Date Collected: 03/25/21 13:15 Date Received: 03/26/21 16:45

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353681	04/06/21 12:14	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353818	04/08/21 02:18	T1W	TAL SEA

Client Sample ID: GW-2-032521

Lab Sample ID: 580-102053-27

Date Collected: 03/25/21 16:20 **Matrix: Water** Date Received: 03/26/21 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353681	04/06/21 12:14	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353912	04/08/21 20:44	T1W	TAL SEA

Client Sample ID: 2A-W-40-032521 Lab Sample ID: 580-102053-28

Date Collected: 03/25/21 15:15 Date Received: 03/26/21 16:45

Batch **Batch** Dilution Batch Prepared **Prep Type** Method Run Factor Number or Analyzed Analyst Type Lab Total/NA Prep 3510C 353681 04/06/21 12:14 JBT TAL SEA Total/NA Analysis NWTPH-Dx 1 353912 04/08/21 21:04 T1W TAL SEA

Client Sample ID: 5-W-51-032521 Lab Sample ID: 580-102053-29

Date Collected: 03/25/21 12:50 **Matrix: Water**

Date Received: 03/26/21 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353681	04/06/21 12:14	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353912	04/08/21 21:24	T1W	TAL SEA

Client Sample ID: 5-W-55-032521 Lab Sample ID: 580-102053-30 **Matrix: Water**

Date Collected: 03/25/21 17:10 Date Received: 03/26/21 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353765	04/07/21 11:34	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353915	04/08/21 21:13	T1W	TAL SEA

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: EW-2A-032521

Date Collected: 03/25/21 12:20 Date Received: 03/26/21 16:45 Lab Sample ID: 580-102053-31

Matrix: Water

Job ID: 580-102053-1

Batch Batch Dilution Batch Prepared Method Number or Analyzed **Prep Type** Type Run **Factor** Analyst Lab Total/NA 3510C 353765 04/07/21 11:34 TAL SEA Prep Total/NA NWTPH-Dx 353915 04/08/21 21:33 T1W Analysis TAL SEA 1

Client Sample ID: GW-4-032521

Date Collected: 03/25/21 14:15 Date Received: 03/26/21 16:45

Lab Sample ID: 580-102053-32

Matrix: Water

Batch Dilution Batch Prepared Method Number **Prep Type** Type Run or Analyzed Analyst **Factor** Lab TAL SEA Total/NA Prep 3510C 353765 04/07/21 11:34 JBT Total/NA NWTPH-Dx 353915 04/08/21 21:53 T1W TAL SEA Analysis 1

Client Sample ID: 1C-W-8-032521

Date Collected: 03/25/21 17:00 Date Received: 03/26/21 16:45

Lab Sample ID: 580-102053-33

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353765	04/07/21 11:34	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353915	04/08/21 22:13	T1W	TAL SEA

Client Sample ID: 1C-W-4-032521

Date Collected: 03/25/21 16:15 Date Received: 03/26/21 16:45

Lab Sample ID: 580-102053-34

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353765	04/07/21 11:34	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353915	04/08/21 22:33	T1W	TAL SEA

Client Sample ID: 5-W-43-032521

Date Collected: 03/25/21 14:55

Date Received: 03/26/21 16:45

Lab Sample ID: 580-102053-35 **Matrix: Water**

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353765	04/07/21 11:34	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353915	04/08/21 22:53	T1W	TAL SEA

Client Sample ID: GW-1-032521

Date Collected: 03/25/21 15:31

Date Received: 03/26/21 16:45

Lab Sample ID: 580-102053-36 **Matrix: Water**

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353765	04/07/21 11:34	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353915	04/08/21 23:33	T1W	TAL SEA

Job ID: 580-102053-1

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: EW-1-032521

Date Collected: 03/25/21 15:57 Date Received: 03/26/21 16:45 Lab Sample ID: 580-102053-37

Matrix: Water

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353765	04/07/21 11:34	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353915	04/08/21 23:54	T1W	TAL SEA

Client Sample ID: 5-W-56-032521 Lab Sample ID: 580-102053-38

Date Collected: 03/25/21 16:51

Matrix: Water Date Received: 03/26/21 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353871	04/08/21 12:15	RJL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353912	04/08/21 23:03	T1W	TAL SEA

Client Sample ID: MW-4-032621

Lab Sample ID: 580-102053-39

Date Collected: 03/26/21 09:51 **Matrix: Water** Date Received: 03/26/21 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C		- <u> </u>	353871	04/08/21 12:15	RJL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353912	04/08/21 23:23	T1W	TAL SEA

Client Sample ID: 2A-W-9-032621 Lab Sample ID: 580-102053-40

Date Collected: 03/26/21 10:36

Date Received: 03/26/21 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353871	04/08/21 12:15	RJL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353912	04/08/21 23:43	T1W	TAL SEA

Client Sample ID: 1B-W-23-032621 Lab Sample ID: 580-102053-41

Date Collected: 03/26/21 11:35 **Matrix: Water**

Date Received: 03/26/21 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353871	04/08/21 12:15	RJL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353912	04/09/21 00:03	T1W	TAL SEA

Lab Sample ID: 580-102053-42 Client Sample ID: 1C-W-7-032621

Date Collected: 03/26/21 09:55 **Matrix: Water** Date Received: 03/26/21 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353871	04/08/21 12:15	RJL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353912	04/09/21 00:23	T1W	TAL SEA

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: 2A-W-42-032621

Date Collected: 03/26/21 10:40 Date Received: 03/26/21 16:45 Lab Sample ID: 580-102053-43

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353871	04/08/21 12:15	RJL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353912	04/09/21 00:43	T1W	TAL SEA

Date Collected: 03/26/21 10:00 Date Received: 03/26/21 16:45

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353871	04/08/21 12:15	RJL	TAL SEA
Total/NA	Cleanup	3630C			353920	04/08/21 15:54	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353912	04/08/21 20:04	T1W	TAL SEA
Total/NA	Prep	3510C			353871	04/08/21 12:15	RJL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353912	04/09/21 01:03	T1W	TAL SEA

Client Sample ID: 2A-W-410-032621 Lab Sample ID: 580-102053-45

Date Collected: 03/26/21 10:05 Date Received: 03/26/21 16:45

Batch Dilution Batch Batch Prepared **Prep Type** Type Method Run **Factor** Number or Analyzed Analyst Lab Total/NA Prep 3510C 353871 04/08/21 12:15 RJL TAL SEA Total/NA NWTPH-Dx 353912 04/09/21 01:42 T1W TAL SEA Analysis 1

Client Sample ID: GW-3-032621 Lab Sample ID: 580-102053-46

Date Collected: 03/26/21 11:10 Date Received: 03/26/21 16:45

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353871	04/08/21 12:15	RJL	TAL SEA
Total/NA	Cleanup	3630C			353920	04/08/21 15:54	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353912	04/08/21 20:24	T1W	TAL SEA
Total/NA	Prep	3510C			353871	04/08/21 12:15	RJL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353912	04/09/21 02:02	T1W	TAL SEA

Date Collected: 03/26/21 11:15 Date Received: 03/26/21 16:45

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	3510C			353871	04/08/21 12:15	RJL	TAL SEA
١	Total/NA	Analysis	NWTPH-Dx		1	353912	04/09/21 02:22	T1W	TAL SEA

Eurofins FGS, Seattle

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Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Matrix: Water

Date Collected: 03/26/21 09:00 Date Received: 03/26/21 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353871	04/08/21 12:15	RJL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353912	04/09/21 02:41	T1W	TAL SEA

Laboratory References:

TAL SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

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Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-102053-1

Project/Site: BNSF Skykomish Semi Annual

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C553	02-17-22

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Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Semi Annual

Job ID: 580-102053-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-102053-1	S2-BU-032421	Water	03/24/21 16:31	03/26/21 16:45	
580-102053-2	S2-BD-032421	Water	03/24/21 16:31	03/26/21 16:45	
580-102053-3	S1-AU-032421	Water	03/24/21 17:19	03/26/21 16:45	
580-102053-4	S1-AD-032421	Water	03/24/21 17:19	03/26/21 16:45	
580-102053-5	S1-BU-032421	Water	03/24/21 17:23	03/26/21 16:45	
580-102053-6	S1-BD-032421	Water	03/24/21 17:25	03/26/21 16:45	
580-102053-7	S2-AU-032421	Water	03/24/21 16:43	03/26/21 16:45	
580-102053-8	S2-AD-032421	Water	03/24/21 16:38	03/26/21 16:45	
580-102053-9	S3-AD-032521	Water	03/25/21 09:18	03/26/21 16:45	
580-102053-10	S3-AU-032521	Water	03/25/21 09:18	03/26/21 16:45	
580-102053-11	S3-BD-032521	Water	03/25/21 09:47	03/26/21 16:45	
580-102053-12	S3-BU-032521	Water	03/25/21 09:47	03/26/21 16:45	
580-102053-13	S3-CD-032521	Water	03/25/21 10:15	03/26/21 16:45	
580-102053-14	S3-CU-032521	Water	03/25/21 10:15	03/26/21 16:45	
580-102053-15	S4-CU-032521	Water	03/25/21 10:08	03/26/21 16:45	
580-102053-16	S4-CD-032521	Water	03/25/21 10:41	03/26/21 16:45	
580-102053-17	S4-AD-032521	Water	03/25/21 11:28	03/26/21 16:45	
580-102053-18	S4-AU-032521	Water	03/25/21 11:28	03/26/21 16:45	
580-102053-19	S4-BD-032521	Water	03/25/21 12:04	03/26/21 16:45	
580-102053-20	S4-BU-032521	Water	03/25/21 12:04		
580-102053-21	5-W-14-032521	Water		03/26/21 16:45	
580-102053-22	5-W-17-032521	Water		03/26/21 16:45	
580-102053-23	5-W-16-032521	Water	03/25/21 10:10	03/26/21 16:45	
580-102053-24	5-W-19-032521	Water		03/26/21 16:45	
580-102053-25	5-W-18-032521	Water		03/26/21 16:45	
580-102053-26	5-W-180-032521	Water		03/26/21 16:45	
580-102053-27	GW-2-032521	Water		03/26/21 16:45	
580-102053-28	2A-W-40-032521	Water	03/25/21 15:15	03/26/21 16:45	
580-102053-29	5-W-51-032521	Water		03/26/21 16:45	
580-102053-30	5-W-55-032521	Water		03/26/21 16:45	
580-102053-31	EW-2A-032521	Water	03/25/21 12:20	03/26/21 16:45	
580-102053-32	GW-4-032521	Water		03/26/21 16:45	
580-102053-33	1C-W-8-032521	Water	03/25/21 17:00	03/26/21 16:45	
580-102053-34	1C-W-4-032521	Water	03/25/21 16:15	03/26/21 16:45	
580-102053-35	5-W-43-032521	Water		03/26/21 16:45	
580-102053-36	GW-1-032521	Water	03/25/21 15:31	03/26/21 16:45	
580-102053-37	EW-1-032521	Water	03/25/21 15:57	03/26/21 16:45	
580-102053-38	5-W-56-032521	Water		03/26/21 16:45	
580-102053-39	MW-4-032621	Water	03/26/21 09:51	03/26/21 16:45	
580-102053-40	2A-W-9-032621	Water		03/26/21 16:45	
580-102053-41	1B-W-23-032621	Water		03/26/21 16:45	
580-102053-42	1C-W-7-032621	Water		03/26/21 16:45	
580-102053-43	2A-W-42-032621	Water		03/26/21 16:45	
580-102053-44	2A-W-41-032621	Water	03/26/21 10:00	03/26/21 16:45	
580-102053-45	2A-W-410-032621	Water		03/26/21 16:45	
580-102053-46	GW-3-032621	Water		03/26/21 16:45	
580-102053-47	GW-30-032621	Water		03/26/21 16:45	
580-102053-48	MW-555-032621	Water		03/26/21 16:45	

													Pag	e 1 of l	
					L	BORA	TORY IN	FORMA	TION	····		LAS WORK ORI	DER:	•	
		Laboratory:			**				Project Mana	ager:		SHIPMENT INFORMATION			
	RAILWAY	Address:		*****************************					Phone:			Shipment Method:			
	HAIN OF CUSTODY	City/State/ZIP	:	· · · · · · · · · · · · · · · · · · ·				•••••	Fax:			Tracking Number	:		
BN	SF PROJECT INFORMATION	Project State	of Origin: Way	Much	CONSULTANT INFORMATION							Project Number:	683.071	· · · · · · · · · · · · · · · · · · ·	
BNSF Project Number:	683-071	Project City:	of Origin: Wa. Skylkieun	ish		Compan	To	well	1			Project Manager:	Amonda	Mounnet	
BNSF Project Name	BW97 Styfonish Sen	Ann	il.			Address	915	- 5-je	AVE	NW		Email: Arresu	with drule	mell	
BNSF Contact:	l	BNSF Work O	rder No.:			City/Stati	=121P/58	lagu	ul, u	JA ª	38227	Phone: U.X	Amarda wit drules -195-0905**	- wight	
	TURNAROUND TIME		DELIVERABLES		Other De			Ø.	T		THODS FOR ANA				
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2-day Rush	Standard 10-Day	Level III			EDD Rec	, Format	?		ابدا						
3-day Rush	Other	Level IV							ゴ	***************************************		Loc: 580	ł		
	SAM	PLE INFORM	ATION					***************************************	A F			10205			
	C		Sam	ple Collection		Filtered	Туре		1 F2			102			
	Sample Identification	Containers	Date	Time	Sampler	Y/N	(Comp/ Grab)	Matrix	S				COMMENTS	LAB USE	
52-BU-	-032421	2_	3/24/21	1631	68	N	G	W	χ			,	1	LAD OOL	
52-BD-	032421		í	1631	69	1)	1	· 人						
SI-AU-	032421			1719	GP				K						
SI-AD-	032421			1719	GP				1						
SI - BU -	032921			1723	<i>E</i> 5				X						
51 - BD -	-032421			1725	E5				K						
52-AU-	032421			1643	E>			П	7						
52-AD-	032421		L	1638	ES				K						
53-AD -	032521		3/25/21	918	GP				X						
53-AU-0	32521		4	918	6P				X						
53-BD-	032521			947	GP				X						
53-BU-	032521			947	GP				X						
Ა3-CD -					GP				X						
53-CU-		01	<u></u>	1015		\$1	1		X				3 Chain of Custody		
54-CU-	032521	W	7	1000	MB	V	V	V	X						
linquished By: W linquished By:	ui Snitter	Date/Time: 2/24/5 Date/Time:	21 1445	Received By: Received By:		2				Date/Time	4(177)	Comments and Special	Analytical Requirements	:	
linquished By:		Date/Time:		Received By:						Date/Time	:				
eceived by Laboratory:		Date/Time:		Lab Remarks:			· · · · · · · · · · · · · · · · · · ·		······································			Custody Seal No.	BNSF COC No		
RIGINAL - RETURN	TO LABORATORY WITH SAMPLES			<u> </u>	DITE	LICATE	- CONSU	ITANT			es 🗌 No			TAL 1001 (0010)	

TAL-1001 (0912)

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BNSF	Laboratory:			£/	4BUK/	ATORY IN	FURMA	Project Mana	ager:	······································		LAB WORK ORDER: SHIPMENT INFORMATION				
RAILWAY	Address:							Phone:				Shipment Method:				
	City/State/ZIP:				Fax:								racking Num			
BNSF PROJECT INFORMATION	Project State of	Origin:	in ton		CONSULTANT INFORMATION								roject Number			
INSF Project Number: LB2-071	Project City:	Skykomis	h		Compa	iny: Id	rull			***************************************		ρ	rojeci Manage	"Amounda Mo	umat	
NSF Project Name: 25F Skylmish Sen	u Aunua	L'			Addres		75 S	th Ai	Æ L	lid l		Ē	mail: Amo	it Darallus	andhu (n	
CHAIN OF CUSTODY BNSF PROJECT INFORMATION NSF Project Number: 663-07 1 NSF Project Name: JASF Skykomish Jen NSF Contact: TURNAROUND TIME	BNSF Work Or	der No.;			City/Sta	ate/ZtP:	ssag	wh.	JA	 ยอวง	<u> </u>	p	المن المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة ا	"Amounda Mo grant Sanathac 15-283-0805"	1	
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2-day Rush X Standard 10-Day	Levei III			DD Rec	ą, Forma	at?				-						
3-day Rush Other	Level IV				•••••		-	ベン		-						
	MPLE INFORM	ATION		***************************************				1 \(\frac{1}{2} \)	1							
		Samp	ole Collection		Filtere	Type		7 2		-						
Sample Identification	Containers	Date	Time	Sampler	1 Y/N		Matrix	138						COMMENTS	LABUSE	
54-CD-032521	2	3/25/21	1041	MB	N	6	W	X								
S4-AD-032521	1		7	OP	1	1	1	X								
54-10-032521			1128	GP				X								
54-BD-032521			1204	GP				X								
54-BU-032521 5-W-14-032521			1204	GP				X								
5-W-14-032521			1135	ES				X								
5-W-17-032521			1050	ES				X								
5-W-16-032521			1010	Es				X								
J-W-19-032521		The state of the s	935	Es				X								
5-W-18-03-25-21	The state of the s		1309	60				X								
5-W-180-032521	1,400	111111111111111111111111111111111111111	1315	60		$\bot \bot$		X								
GW-2-032521		Paningger	1620					X								
2A-W-40-032521			1515	ES	\perp			X								
2A-W-40-032521 5-W-61-032521 5-W-55-032521	J. del	4	1250	E5	V	1/2/	15/	X								
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elinquished By:	Date/Time:		Received By:					······································	Date/	Time:						
eceived by Laboratory:	Date/Time:	······································	Lab Remarks:							Custody Intact?		Custody Seal	No.	BNSF COC No)	

TAL-1001 (0912)

	1	LABORATORY INFORMATION											LAB WORK ORDER:					
BNSF	Laboratory:		Project Manager:									SHIPMENT INFORMATION						
RAILWAY	Address:					Phone:							Shipment Method:					_
CHAIN OF CUSTODY	City/State/ZiP:					Fax:							Tracking Number:					
BNSF PROJECT INFORMATION	Project State of Origin: Washington				CONSULTANT INFORMATION							Project Number: 683-071						
INSF Project Number: 683-071	Project City: Shykomesh				Company: Favallin							Project Manager: Amundo Mungarit Email: Amengun to fourthe Cumhy com-						
SNSF Project Name: BASF Stylkomish Semi A	Annual				Address: 975 5th AVE NW							Email: Amergun to foresthe cometry. com						
INSF Contact:	BNSF Work Ord				City/State	/ZiP:	ice, La	lic	JA	9822	7		Phone:	425	195-080er	Fax:		
TURNAROUND TIME	D	ELIVERABLES		Other De	liverables	?	7		*****		HODS FOR AN	ALYSIS						
1-day Rush 5- to 8-day Rush	BNSF Sta	andard (Level II)							8								i t	
2-day Rush Standard 10-Day	Level III			EDD Req	, Format?	>		X	Cours									
3-day Rush Other	Level IV							i i	13									
SAMI	PLE INFORMA	ATION						NWTPH	E									
County Identification	G	Samp	le Collection		Filtered	Type	Matrix	13	2							İ		
Sample Identification	Containers	Date	Time	Sampler	Y/N	(Comp/ Grab)	мави	Ź	Silica						COMMENT	is	LAB USE	
EW-2A-032621	2	3/25/20	1220	MB	N	6	W	R			THE STATE OF THE S							
GW-4-032521	1	i	1415	MB				X										
1C-W-8-032521			1700	mB				X										
1c-W-4-032521			1615	MB				X										
5-W-43-032521			1455	1 1				X										
GW-1-032521			1531	GP				X										
EW-1-032521			1557	GP				X										
5-W-56-032521		上	1651	GP				K										
MW-4-037621	2	3/26/21	451	GP				K									WARRY COMMENT	
2A-W-9-032621	\		1036	6P				K										
1B-W-23-032621			1135	(jp				K										
1C-W-7-032621			955	MB				X										
2A-W-42-032621			1040	MB				K							;			
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eceived by Laboratory	Date/Time:		Lab Remarks:							Lab: Custor		Custody 8	Seal No.		BNSF	COC No		╝
ORIGINAL - RETURN TO LABORATORY WITH SAMPLES				DÜ	PLICATE	- CONSU	LTANT										TAL-1001 (001	* "11

TAL-1001 (0912)

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

Page 40f4 LABORATORY INFORMATION AB WORK ORDER: BINISTA Project Manager SHIPMENT INFORMATION Address: Phone: Shipment Method: City/State/ZIP: Tracking Number: CHAIN OF CUSTODY Project Number: **BNSF PROJECT INFORMATION** CONSULTANT INFORMATION BNSF Project Number: 683-071 975 5th AVE NW BNSF Project Name: BNSF Stykomsa BNSF Contact BNSF Work Order No. Bagush un 9827 Other Deliverables? METHODS FOR ANALYSIS TURNAROUND TIME **DELIVERABLES** ____ 1-day Rush 5- to 8-day Rush BNSF Standard (Level II) Silin Get claump Standard 10-Day 2-day Rush Level III EDD Reg, Format? Level IV 3-day Rush SAMPLE INFORMATION Sample Collection Filtered Sample Identification Containers (Comp/ Y/N Sampler Grab) COMMENTS LAB USE GW-3-032621 2 3/26/21 X K liko ES W 6 3/26/25 ES GW-30-032621 W M41-555-032621 900 W Smith Comments and Special Analytical Requirements:

Date/Time: ORIGINAL - RETURN TO LABORATORY WITH SAMPLES **DUPLICATE - CONSULTANT**

Date/Time:

Received By:

Lab Remarks

Relinquished By:

Received by Laboratory:

TAL-1001 (0912)

BNSF COC No

ab: Custody Intact?

Yes Yes

□ No

Custody Seal No.

0

Cust. Seal: Yes__No__ Blue Ice, (G), Dry, None Packing: Therm. ID: Tor: 1-4
Cooler Dsc: LB Lab Cour: FedEx: _ Unc:1.7

Therm. ID: 18 Cor: 2.0 o Cooler Dsc: 18 Fee Cust. Seal: Yes___No___ Blue Ice. (Ver, Dry, None Other: Lab Cour: FedEx: ... Unc: 1-8

Therm ID: 4 Cor. 2/10 Packing: No____No___ Blue Ice, V., Dry, None Lab Cour: Other: FedEx: ___ linc: <u>3.</u>

Cust. Seal: Yes___No___ Blue Ice, Yey Dry, None Cooler Dsc: Packing: Therm ID:_ 12 Gor. No. Lab Cour:_ Other:___ FedEx: · Unc: 2.5

Cust. Seal: Yes No 1 Packing: Cooler Dsc:_ Therm ID: 29 Cor 2.1 No.7 Lab Cour: FedEx: L.P.S. Other: Unc:1.9

Cust. Seal: Yes. Blue Ice, VO, Dry, None Packing: Cooler Dsc: Therm. ID: 44 Cor: 3.0 Cooler Dec. 3 CPS:_____ FedEx:_ Other: . Unc.2.8

Cust. Seal: Yes_ Blue Ice, & Dry, None Packing: Cooler Dsc: Therm ID: 100 Cor: 2.4 ° Unc: 2.2 Lab Cour: FedEx: Other:

Cooler Dsc:_ Blue Ice, VerDry, None Packing: Therm. ID: Cust. Seal: Yes_ 10 x Lab Court FedEx: ____ Unc: 1.5

Blue Ice, Yel Dry, None Cust. Seal: Yes_ Packing: Cooler Dsc: Therm. ID: 28 Cor. 2.0 102 , To Unc. 1.8 Other: FedEx: UPS: Lab Cour:

Job Number: 580-102053-1

Login Number: 102053

List Source: Eurofins TestAmerica, Seattle

List Number: 1

Creator: Hobbs, Kenneth F

Creator. Hobbs, Kermetii F		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins TestAmerica, Seattle



Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-102099-1

Client Project/Site: BNSF Skykomish Rush NPDES

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 4/2/2021 10:38:18 AM

Nathan Lewis, Project Manager I

(253)922-2310

Nathan.Lewis@Eurofinset.com

·····LINKS ·······

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES Laboratory Job ID: 580-102099-1

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Sample Summary	10
Chain of Custody	
Receipt Chacklists	12

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Case Narrative

Client: Farallon Consulting LLC

Job ID: 580-102099-1 Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-102099-1

Laboratory: Eurofins FGS, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC **Project: BNSF Skykomish Rush NPDES** Report Number: 580-102099-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/30/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.4 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC 033021 (580-102099-1) and HCC EFF 033021 (580-102099-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 03/31/2021 and analyzed on 04/01/2021.

The (CCV 580-353382/21) and (CCV 580-353382/25) recovered high biased for surrogate, o-Terphenyl. Since the analysis was followed by a successful calibration verification and the percentage recovery of this CCV is within control limits, data has been reported.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-353289, so a LCS and LCSD were used instead.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-102099-1

Project/Site: BNSF Skykomish Rush NPDES

Glossary

MDL

MPN

MQL NC

ND

NEG POS

PQL

PRES

QC

RER RL

RPD TEF

TEQ

TNTC

ML

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number Method Quantitation Limit

Not Detected at the reporting limit (or MDL or EDL if shown)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

4/2/2021

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Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-102099-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC 033021 Lab Sample ID: 580-102099-1

Date Collected: 03/30/21 08:30

Matrix: Water

Date Collected: 03/30/21 08:30 Matrix: Water Date Received: 03/30/21 12:07

Method: NWTPH-Dx - No	orthwest - Semi-Volatile F	Petroleum Prod	ucts (GC)			
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.44	0.062	mg/L	03/31/21 11:4	4 04/01/21 15:25	1
Motor Oil (>C24-C36)	0.37	0.092	mg/L	03/31/21 11:4	4 04/01/21 15:25	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	92	50 - 150		03/31/21 11:4	4 04/01/21 15:25	1

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-102099-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: HCC EFF 033021 Lab Sample ID: 580-102099-2

Date Collected: 03/30/21 08:30 Matrix: Water

Date Received: 03/30/21 12:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		03/31/21 11:44	04/01/21 15:45	1
Motor Oil (>C24-C36)	ND		0.091		mg/L		03/31/21 11:44	04/01/21 15:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	95		50 - 150				03/31/21 11:44	04/01/21 15:45	1

QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-102099-1

Project/Site: BNSF Skykomish Rush NPDES

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-353289/1-A **Matrix: Water**

Analysis Batch: 353382

Prep Type: Total/NA **Prep Batch: 353289** MB MB

Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 03/31/21 11:44 04/01/21 13:05 #2 Diesel (C10-C24) ND 0.065 mg/L Motor Oil (>C24-C36) ND 0.096 mg/L 03/31/21 11:44 04/01/21 13:05

MB MB

Qualifier Surrogate %Recovery I imits Prepared Analyzed Dil Fac 50 - 150 o-Terphenyl 88 03/31/21 11:44 04/01/21 13:05

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 353289**

Client Sample ID: Method Blank

%Rec.

Client Sample ID: Lab Control Sample Dup

101

64 - 120

3

24

LCS LCS Spike Added Result Qualifier Limits **Analyte** Unit D %Rec 0.500 0.532 50 - 120 #2 Diesel (C10-C24) mg/L 106 Motor Oil (>C24-C36) 0.500 0.523 mg/L 105 64 - 120

LCS LCS Surrogate %Recovery Qualifier Limits o-Terphenyl 112 50 - 150

Lab Sample ID: LCSD 580-353289/3-A

Lab Sample ID: LCS 580-353289/2-A

Matrix: Water

Motor Oil (>C24-C36)

Matrix: Water

Analysis Batch: 353382

Prep Type: Total/NA **Analysis Batch: 353382 Prep Batch: 353289** LCSD LCSD RPD Spike %Rec. RPD Result Qualifier Limits Analyte Added Unit %Rec Limit #2 Diesel (C10-C24) 0.500 0.510 102 50 - 120 26 mg/L

0.506

mg/L

0.500

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl 110

Eurofins FGS, Seattle

4/2/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-102099-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC 033021

Lab Sample ID: 580-102099-1

Date Collected: 03/30/21 08:30 **Matrix: Water** Date Received: 03/30/21 12:07

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353289	03/31/21 11:44	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353382	04/01/21 15:25	JKM	TAL SEA

Lab Sample ID: 580-102099-2 Client Sample ID: HCC EFF 033021

Date Collected: 03/30/21 08:30 **Matrix: Water**

Date Received: 03/30/21 12:07

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353289	03/31/21 11:44	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	353382	04/01/21 15:45	JKM	TAL SEA

Laboratory References:

TAL SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-102099-1

Project/Site: BNSF Skykomish Rush NPDES

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C553	02-17-22

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Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-102099-1	Before GAC 033021	Water	03/30/21 08:30	03/30/21 12:07	
580-102099-2	HCC EFF 033021	Water	03/30/21 08:30	03/30/21 12:07	

Job ID: 580-102099-1

TestAmerica Seattle

Relinquished by

Relinguished by:

Chain of Custody Record

White	е	st	\	7	7	16	er	ic	2(_
				222				M S		29
Τ.	or Le	400	n	Page 1	unc		es 190			

5755 8th Street East Tacoma, WA 98424-1317 phone 253.922.2310 fax 253.922.5047 Regulatory Program: Dw NPDES Other: TestAmerica Laboratories, Inc. **Client Contact** Project Manager: Pete Kingston Site Contact: Matt Bowser COC No: Date: 2-30 -2 Farallong Consulting Tel/Fax: 425-394-4146 Lab Contact: Kristine Allen Carrier: COCs of ~ 2 975 5th Avenue Northwest **Analysis Turnaround Time** Sampler: TW NWTPH-Dx w/o silica gel cleanup CALENDAR DAYS Issaquah, Washington WORKING DAYS For Lab Use Only: (425) 295-0800 Phone TAT if different from Below ろ はいい Walk-in Client: (425) 295-0850 FAX 2 weeks Lab Sampling: Project Name: Skykomish HCC System 1 week Site: 2 days Job / SDG No.: WO # TT0100-S03 1 day Sample Type Sample Sample # of (C=Comp, Sample Identification Date Time Matrix G=Grab) Cont. Sample Specific Notes: 8130 Before GAC-033021 W Grab **See instructions below HCC EFF- 033021 Grab W **See instructions below Therm. ID: TOG Cor: 34 . Unc: 32 ... Cooler Dsc: LR FedEx: Packing: ALLE UPS:_______K Cust. Seal: Yes___No____ Blue Ice, Wet, Dry, None Other: Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. ✓ Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client ✓ Disposal by Lab Special Instructions/QC Requirements & Comments: 1) DxRx requires special limits 0.208 mg/L, cumulative, Final Volume of 2 mL required 2) No silica get cleanup needed for Dx Custody Seels Intact: / Yes No Custody Seal No.: Cooler Temp. (°C): Obs'd: Corr'd: Therm ID, No.: Relinguished by # Company: Date/Time: Received by: Company: 10115 3/301

Date/Time:

Date/Time:

Company:

Company:

Picked up at CM Las JLS 3/30/21 Page 11 of 12

Received in Laboratory by

Company:

Company:

ETA SCA

Received by:

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Date/Time:

Date/Time:

7/30/21

Client: Farallon Consulting LLC

Job Number: 580-102099-1

Login Number: 102099

List Number: 1

Creator: Vallelunga, Diana L

List Source: Eurofins TestAmerica, Seattle

Creator. Valleturiga, Diaria L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4/3.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-102346-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 4/13/2021 4:33:20 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Laboratory Job ID: 580-102346-1

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Case Narrative

Client: Farallon Consulting LLC
Project/Site: Skykomish HCC System

Job ID: 580-102346-1

Job ID: 580-102346-1

Laboratory: Eurofins FGS, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC Project: Skykomish HCC System Report Number: 580-102346-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 04/08/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.5 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-4721 (580-102346-1) and HCC EFF-4721 (580-102346-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 04/09/2021 and analyzed on 04/10/2021.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-353979, so a LCS and LCSD were used instead.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-102346-1

Project/Site: Skykomish HCC System

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** Detection Limit (DoD/DOE) DL DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control** 0C

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-102346-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-4721 Lab Sample ID: 580-102346-1

Date Collected: 04/07/21 10:00 Matrix: Water

Date Collected: 04/07/21 10:00 Matrix: Water Date Received: 04/08/21 11:15

Method: NWTPH-Dx - No	orthwest - Semi-Volatile P	etroleum Prod	ucts (GC)			
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.48	0.062	mg/L	04/09/21 11:2	04/10/21 17:38	1
Motor Oil (>C24-C36)	0.38	0.092	mg/L	04/09/21 11:2	1 04/10/21 17:38	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	76	50 - 150		04/09/21 11:2	04/10/21 17:38	1

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-102346-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-4721 Lab Sample ID: 580-102346-2

Matrix: Water

Date Collected: 04/07/21 10:00 Date Received: 04/08/21 11:15

Analyte		Qualifier	roleum Prodi RL	MDL	•	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		04/09/21 11:21	04/10/21 17:58	1
Motor Oil (>C24-C36)	ND		0.092		mg/L		04/09/21 11:21	04/10/21 17:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	76		50 - 150				04/09/21 11:21	04/10/21 17:58	1

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QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-102346-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-353979/1-A

Matrix: Water

Matrix: Water

Analysis Batch: 354069

Analysis Batch: 354069

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 353979

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065		mg/L		04/09/21 11:21	04/10/21 16:39	1
Motor Oil (>C24-C36)	ND		0.096		mg/L		04/09/21 11:21	04/10/21 16:39	1

MB MB

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 74 50 - 150 04/09/21 11:21 04/10/21 16:39

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 353979

%Rec.

LCS LCS Spike Added Result Qualifier Limits **Analyte** Unit D %Rec #2 Diesel (C10-C24) 0.500 50 - 120 0.408 mg/L 82 Motor Oil (>C24-C36) 0.500 0.435 mg/L 87 64 - 120

> LCS LCS %Recovery Qualifier Limits 85 50 - 150

Lab Sample ID: LCSD 580-353979/3-A

Lab Sample ID: LCS 580-353979/2-A

Matrix: Water

Surrogate

o-Terphenyl

Analysis Batch: 354069

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 353979

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.419		mg/L		84	50 - 120	3	26
Motor Oil (>C24-C36)	0.500	0.480		mg/L		96	64 - 120	10	24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 92 50 - 150 o-Terphenyl

Eurofins FGS, Seattle

4/13/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-102346-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-4721

Lab Sample ID: 580-102346-1 Date Collected: 04/07/21 10:00 **Matrix: Water**

Date Received: 04/08/21 11:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353979	04/09/21 11:21	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	354069	04/10/21 17:38	JKM	TAL SEA

Lab Sample ID: 580-102346-2 **Client Sample ID: HCC EFF-4721**

Matrix: Water Date Collected: 04/07/21 10:00

Date Received: 04/08/21 11:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			353979	04/09/21 11:21	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	354069	04/10/21 17:58	JKM	TAL SEA

Laboratory References:

TAL SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC

Job ID: 580-102346-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C553	02-17-22

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-102346-1

Lab Sample ID Client Sample ID Matrix Collected Received	d Asset ID
580-102346-1 Before GAC-4721 Water 04/07/21 10:00 04/08/21 11:15	:15
580-102346-2 HCC EFF-4721 Water 04/07/21 10:00 04/08/21 11:15	:15

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TootAmorina Cantila

975 5th Avenue Northwest

Project Name: Skykomish HCC System

Issaquah, Washington

(425) 295-0800

(425) 295-0850

WO#TT0100-S03

Chain of Custody Record

Site Contact: Matt Bowser Lab Contact: Kristine Allen

Other:

Date: 4/7/21

Carrier:

RCRA

Filtered Sample (Y/N)
Perform MS / MSD (Y/N)
NWTPH-Dx w/o silica gel cleanup

DW

WORKING DAYS

Matrix

W

W

Cont.

Analysis Turnaround Time

TAT if different from Below 33000

2 weeks

1 week

2 days

1 day Sample Type

(C=Comp,

G∞Grab)

Grab

Grab

CALENDAR DAYS

Sample | Sample

Time

Date

4/7/21

4/7/21

FedEx:

Lab Cour:

✓ NPDES

5755 8th Street East	
5755 6th Street East	
Tacoma, WA 98424-1317	
phone 253.922.2310 fax 253.922.5047	Regulatory Program: 🕞
Client Contact	Project Manager: Pete Kingston
Farallong Consulting	Tel/Fax: 425-394-4146

Phone

FAX

Before GAC- 4721

HCC EFF- 4721

Cooler Dsc:___

Cust. Seal: Yes__No_\(\square\)

Blue Ice, Wet, Dry, None

Packing:____

Sample Identification

	TestAmerica THE LEADER IN ENVIRONMENTAL TESTING
	TestAmerica Laboratories, Inc.
7/21	COC No:
	lof COCs
102346	Sampler: TW For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:
	Sample Specific Notes:
	***See instructions below
	***See instructions below

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							П												1		*****	• • • • •				
580-102346 Chain of	Custody			Ţ																				··· · · · · · · · · · · · · · · · · ·		
																						···				
Preservation Used: 1= Ice	, 2= HCI; 3= H2SO4; 4=HNO3; 5:	:NaOH: 6= 0	ther					2		11																
		20000			260000000000000000000000000000000000000	120010051000120000	1000 P. 1000 D.C.	F 60 1000 F	ene anamaista ta								29 5-05-55-0	3003000	A65445 U							WEST !
Possible Hazard Identificat	tion: ed EPA Hazardous Waste? Please			odes for the	sample i	n the	TOTAL STOCKER IN	1000	Dispos	al (Af	ee m	ay be	asse	ssed	if san	ples	are i	etai	ned	iong	er tha	n 1 n	onth			
Possible Hazard Identificat Are any samples from a liste Comments Section if the lab	tion: d EPA Hazardous Waste? Please is to dispose of the sample. Elammable Skin Irritant	ist any EPA	Waste Co	Unkno	wn		San	ple C	n to Clie	nt		[7]Dig	nosal h	w Lah			Archiv	e for			r tha		nonth	ı		
Possible Hazard Identificat Are any samples from a liste Comments Section if the lab Non-Hazard Special Instructions/QC Re	tion: d EPA Hazardous Waste? Please is to dispose of the sample.	ist any EPA	Waste Co	Unkno	wn		San	ple C	n to Clie	nt		[7]Dig	nosal h	w Lah			Archiv	e for					nonth			
Possible Hazard Identificat Are any samples from a liste Comments Section if the lab Non-Hazard Special Instructions/QC Re Custody Seals Integt:	tion: d EPA Hazardous Waste? Please is to dispose of the sample. Elammable Skin Irritant	ist any EPA	Waste Co	Unknoo hits 0,208 m	wn ng/L, cur	nulative	San , Final	ple C	n to Clie	nt	equir	☑Dis ed 2)	posal b No s	w Lah	get cl		Archiv	e for	for		Mon	ths				
Possible Hazard Identificat Are any samples from a liste Comments Section if the lab Non-Hazard Special Instructions/QC Re Custody Seals Theat: Relinquished by:	tion: d EPA Hazardous Waste? Please is to dispose of the sample. Flammable Skin Irritant equirements & Comments: 1) DxR	Poison E Tequires s Custody Se Company:	Waste Co pecial lim	Unknoo hits 0,208 m	wn ng/L, cur	nulative	San , Final	ple C	n to Clie	nt 2 mL, r	equir	☑Dis ed 2)	posal b No s	v Lab silica (get cl	eanu orr'd:	Archiv	e for	for i	Dx	Mon	ths			250	†
Possible Hazard Identificat Are any samples from a liste Comments Section if the lab Non-Hazard Special Instructions/QC Re Custody Seals Integt:	tion: d EPA Hazardous Waste? Please is to dispose of the sample. Flammable Skin Irritant equirements & Comments: 1) DxR	Poison E x requires s Custody Se Company:	Waste Co	Unknow	wn	nulative	San , Final	Retur Volu	To Clie The of Coole	nt 2 mL, r	equir	☑Dis ed 2)	posal b No s	Cor	get cl	eanu	Archiv	e for	for I	Dx herm	ID N	ths			250	

Picked up at CM Lub. Jus Lf8/21 Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018
Page 11 of 12
4/13 4/13/2021 Client: Farallon Consulting LLC

Job Number: 580-102346-1

Login Number: 102346

List Number: 1

Creator: Hobbs, Kenneth F

List Source: Eurofins TestAmerica, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
Γhe cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or ampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-102416-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 4/16/2021 2:49:32 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

·····LINKS ·······

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Laboratory Job ID: 580-102416-1

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-102416-1

Job ID: 580-102416-1

Laboratory: Eurofins FGS, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC Project: Skykomish HCC System Report Number: 580-102416-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 04/13/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.1 C.

The Field Sampler was not listed on the Chain of Custody.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-041221 (580-102416-1) and HCC EFF-041221 (580-102416-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 04/14/2021 and analyzed on 04/15/2021.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-354317, so a LCS and LCSD were used instead.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICPMS)

Sample HCC EFF-041221 (580-102416-2) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 04/13/2021 and analyzed on 04/14/2021.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-102416-1

Project/Site: Skykomish HCC System

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** Detection Limit (DoD/DOE) DL DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control** 0C

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-102416-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-041221 Lab Sample ID: 580-102416-1

Date Collected: 04/12/21 13:50 Matrix: Water

Date Received: 04/13/21 14:00

Method: NWTPH-Dx - No	orthwest - Semi-Volatil	le Petroleum Prod	ucts (GC)			
Analyte	Result Qual	lifier RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.42	0.062	mg/L	04/14/21 11:30	04/15/21 19:56	1
Motor Oil (>C24-C36)	0.31	0.092	mg/L	04/14/21 11:30	04/15/21 19:56	1
Surrogate	%Recovery Qual	lifier Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	78	50 - 150		04/14/21 11:30	04/15/21 19:56	1

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Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-102416-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-041221

Date Collected: 04/12/21 14:00 Date Received: 04/13/21 14:00

Lead

Lab Sample ID: 580-102416-2

04/13/21 18:18 04/14/21 17:28

Matrix: Water

Method: NWTPH-Dx - Nort	thwest - Semi-Vo	olatile Pet	roleum Prod	ucts (G0	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		04/14/21 11:30	04/15/21 20:16	1
Motor Oil (>C24-C36)	ND		0.092		mg/L		04/14/21 11:30	04/15/21 20:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	82		50 - 150				04/14/21 11:30	04/15/21 20:16	1
Method: 200.8 - Metals (IC	P/MS)								
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0028		0.0010		mg/L		04/13/21 18:18	04/14/21 17:28	1

0.00040

mg/L

ND

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Client: Farallon Consulting LLC Job ID: 580-102416-1 Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-354317/1-A

Lab Sample ID: LCS 580-354317/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 354389

Analysis Batch: 354389

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 354317

	MB MB							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.065		mg/L		04/14/21 11:30	04/15/21 18:56	1
Motor Oil (>C24-C36)	ND	0.096		mg/L		04/14/21 11:30	04/15/21 18:56	1
	MB MB							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac o-Terphenyl 78 50 - 150 04/14/21 11:30 04/15/21 18:56

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 354317

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
#2 Diesel (C10-C24)	 0.500	0.414		mg/L		83	50 - 120	
Motor Oil (>C24-C36)	0.500	0.495		mg/L		99	64 - 120	

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 94 50 - 150

Lab Sample ID: LCSD 580-354317/3-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Water

Analysis Batch: 354389

Prep Type: Total/NA **Prep Batch: 354317**

LCSD LCSD Spike %Rec. **RPD** Added Result Qualifier Unit Limits RPD Analyte D %Rec Limit #2 Diesel (C10-C24) 0.500 0.402 80 50 - 120 26 mg/L Motor Oil (>C24-C36) 0.500 0.481 96 64 - 120 mg/L 3 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-354274/14-A **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA Analysis Batch: 354367 Prep Batch: 354274

	INIB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010		mg/L		04/13/21 18:18	04/14/21 17:20	1
Lead	ND		0.00040		mg/L		04/13/21 18:18	04/14/21 17:20	1

Lab Sample ID: LCS 580-354274/15-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 354367 Prep Batch: 354274

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	1.00	0.996		mg/L		100	85 - 115	
Lead	1.00	1.00		mg/L		100	85 - 115	

Eurofins FGS, Seattle

QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-102416-1 Project/Site: Skykomish HCC System

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-354274/16-A	Client Sample ID: Lab Control Sample Dup
Matrix: Water	Pron Type: Total/NA

Matrix: Water

Analysis Batch: 354367

Prep Type: Total/NA Prep Batch: 354274 %Rec. **RPD** Limit D

Spike LCSD LCSD Analyte Added Result Qualifier Unit %Rec Limits RPD Arsenic 1.00 1.00 mg/L 100 85 - 115 20 Lead 1.00 1.01 mg/L 101 85 - 115 20

Lab Sample ID: 580-102416-2 MS Client Sample ID: HCC EFF-041221 **Prep Type: Total/NA Matrix: Water Prep Batch: 354274** Analysis Batch: 354367 Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Arsenic 0.0028 1.00 0.899 mg/L 90 70 - 130 ND 1.00 0.890 mg/L 89 70 - 130 Lead

Lab Sample ID: 580-102416-2 MSD Client Sample ID: HCC EFF-041221 **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 354367** Prep Batch: 354274 Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier Limits RPD Analyte D %Rec Limit Unit Arsenic 0.0028 1.00 0.934 mg/L 93 70 - 130 4 20 Lead ND 1 00 0.930 93 70 - 130 20 mg/L

Lab Sample ID: 580-102416-2 DU Client Sample ID: HCC EFF-041221 **Matrix: Water** Prep Type: Total/NA Analysis Batch: 354367 Prep Batch: 354274 Sample Sample DU DU **RPD** RPD Analyte Result Qualifier Result Qualifier Unit D Limit 0.0028 Arsenic 0.00299 mg/L 6 20 ND ND mg/L NC 20 Lead

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-102416-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-041221

Lab Sample ID: 580-102416-1 Date Collected: 04/12/21 13:50 **Matrix: Water**

Date Received: 04/13/21 14:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			354317	04/14/21 11:30	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	354389	04/15/21 19:56	ADB	TAL SEA

Client Sample ID: HCC EFF-041221 Lab Sample ID: 580-102416-2

Matrix: Water Date Collected: 04/12/21 14:00

Date Received: 04/13/21 14:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			354317	04/14/21 11:30	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	354389	04/15/21 20:16	ADB	TAL SEA
Total/NA	Prep	200.8			354274	04/13/21 18:18	TMH	TAL SEA
Total/NA	Analysis	200.8		1	354367	04/14/21 17:28	FCW	TAL SEA

Laboratory References:

TAL SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC

Job ID: 580-102416-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-21

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-102416-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-102416-1	Before GAC-041221	Water	04/12/21 13:50	04/13/21 14:00	
580-102416-2	HCC EFF-041221	Water	04/12/21 14:00	04/13/21 14:00	

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TestAmerica Seattle

Chain of Custody Record

TestAmerica

5755 8th Street East

Tacoma, WA 98424-1317 phone 253.922.2310 fax 253.922.5047	Poge	ilatanı De		~~	,		_			100/4/	THE LEADER IN ENVIRONMENTAL TESTIN
Client Contact			ogram: 'ete Kingst		√ NPDE	_	RCR		Other:	IUKTIU	TestAmerica Laboratories, Inc
Farallong Consulting		425-394-41		.011		-				Date: 4/12/2	COC No:
975 5th Avenue Northwest	~~		*********	1 900		Lab	Con	tact:	Kristine Allen	Carrier:	of 2 COCs
ssaquah, Washington			Turnaround			4 [₽				Sampler:
		DAR DAYS		RKING DAY	5	┨ ┃	9				For Lab Use Only:
· · · · · · · · · · · · · · · · · · ·	_	AT if different t	from Below _	3 D 4	٣	2	z 🚆	-			Walk-in Client:
425) 295-0850 FAX Project Name: Skykomish HCC System	_ =	2) weeks			$ z\rangle$	5	8.			Lab Sampling:
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Site:		2	days			9 2	S	4			Job / SDG No.:
VO # TT0100-S03	100.00	1	day			E	3	امًا			VOO 7 OD O 3 NO
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	NWTPH-D	Total As, Pb (EPA 200.8)			Sample Specific Notes:
Before GAC- 071221	1/12/21	1350	Grab	w		П					Cample Operatic Notes.
HCC EFF- 01122\	4/12/21	1400			2	H	+				***See instructions below
nccerr- O (1)DV	11/2/21	1100	Grab	W	3	\vdash	X	X			***See instructions below
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Cust. Seal: Yes XNo Lab Cour: X											
Blue Ice, Wet) Dry, None Other:									. I (MAISEN AND MAINTHINE BAN		
						-	\vdash		580-102416 Cha	ain of Custody	
eservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=N									1 1 7 7 7 7 7	The first of the state of the s	
oservation osed:	IaUH; 6= O	ther		and an early				4	1 1 1		
e any samples from a listed EPA Hazardous Waste? Please Li comments Section if the lab is to dispose of the sample.	st any EPA	Waste Cod	les for the s	sample in	the	Sa	mple	Dis	posal (A fee may be	assessed if samples are retained	l longer than 1 month)
Non-Hazard Flammable Skin Irritant	Paison B		Unknow	'n		┪	Det	uzo to	Client Disc	f and the second	
ecial Instructions/QC Requirements & Comments: 1) DxRx	requires s	pecial limit	ts 0.208 m	J/L, cum	ulative	. Fina	al Vol	ume	of 2 mL required 2\	No silica get cleanup pooded for	Months
				-						tto omoz get cleanup needed joi	DX .
Custody Seals Intact: Yes No	Custody Se	al No.:		······································				C	ooler Temp. (°C): Obs	'd: Corr'd:	Therm ID No.:
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Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

and the table

Sym Strimiterings

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Client: Farallon Consulting LLC

Job Number: 580-102416-1

Login Number: 102416

List Number: 1

Creator: Blankinship, Tom X

List Source: Eurofins TestAmerica, Seattle

uestion	Answer	Comment
adioactivity wasn't checked or is = background as measured by a survey leter.</td <td>True</td> <td></td>	True	
he cooler's custody seal, if present, is intact.	True	
ample custody seals, if present, are intact.	True	
he cooler or samples do not appear to have been compromised or impered with.	True	
amples were received on ice.	True	
ooler Temperature is acceptable.	True	
ooler Temperature is recorded.	True	
OC is present.	True	
OC is filled out in ink and legible.	True	
OC is filled out with all pertinent information.	True	
the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
here are no discrepancies between the containers received and the COC.	True	
amples are received within Holding Time (excluding tests with immediate Ts)	True	
ample containers have legible labels.	True	
ontainers are not broken or leaking.	True	
ample collection date/times are provided.	True	
ppropriate sample containers are used.	True	
ample bottles are completely filled.	True	
ample Preservation Verified.	True	
here is sufficient vol. for all requested analyses, incl. any requested IS/MSDs	True	
ontainers requiring zero headspace have no headspace or bubble is 6mm (1/4").	N/A	
lultiphasic samples are not present.	True	
amples do not require splitting or compositing.	True	
esidual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-102418-1

Client Project/Site: Skykomish Ground Water Sampling Event: Skykomish HCC System

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Peter Kingston

Authorized for release by: 4/27/2021 4:49:40 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish Ground Water

Laboratory Job ID: 580-102418-1

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish Ground Water

Job ID: 580-102418-1

Job ID: 580-102418-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-102418-1

Comments

No additional comments.

Receipt

The samples were received on 4/13/2021 2:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.1° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-354874, so a LCS and LCSD were used instead.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-102418-1

Project/Site: Skykomish Ground Water

Glossary

ML

MPN

MQL

NC

ND

NEG POS

PQL

PRES

QC

RER

RL RPD

TEF

TEQ

TNTC

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

4/27/2021

Client Sample Results

Job ID: 580-102418-1

Client: Farallon Consulting LLC Project/Site: Skykomish Ground Water

Lab Sample ID: 580-102418-1 Client Sample ID: S1-BU-041221 Date Collected: 04/12/21 14:45

Matrix: Water

Date Received: 04/13/21 14:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/22/21 11:39	04/25/21 07:24	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		04/22/21 11:39	04/25/21 07:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	67		50 - 150				04/22/21 11:39	04/25/21 07:24	1

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-102418-1 Project/Site: Skykomish Ground Water

Client Sample ID: S1-BD-041221

Lab Sample ID: 580-102418-2 Date Collected: 04/12/21 15:15

Matrix: Water

Date Received: 04/13/21 14:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		04/22/21 11:39	04/25/21 07:44	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		04/22/21 11:39	04/25/21 07:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	77		50 - 150				04/22/21 11:39	04/25/21 07:44	1

QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-102418-1

Project/Site: Skykomish Ground Water

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-354874/1-A

Lab Sample ID: LCS 580-354874/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 355061

Analysis Batch: 355061

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 354874

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.065	0.065	mg/L		04/22/21 11:39	04/25/21 06:24	1
Motor Oil (>C24-C36)	ND	0.096	0.096	mg/L		04/22/21 11:39	04/25/21 06:24	1

MB MB

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 80 50 - 150 04/22/21 11:39 04/25/21 06:24

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 354874

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
#2 Diesel (C10-C24)	0.500	0.437		mg/L		87	50 - 120	
Motor Oil (>C24-C36)	0.500	0.467		mg/L		93	64 - 120	

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 95 50 - 150

Lab Sample ID: LCSD 580-354874/3-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Water

Analysis Batch: 355061

Prep Type: Total/NA **Prep Batch: 354874**

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.449		mg/L		90	50 - 120	3	26
Motor Oil (>C24-C36)	0.500	0.489		mg/L		98	64 - 120	5	24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 99 50 - 150 o-Terphenyl

4/27/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-102418-1

Project/Site: Skykomish Ground Water

Client Sample ID: S1-BU-041221

Lab Sample ID: 580-102418-1 Date Collected: 04/12/21 14:45 **Matrix: Water**

Date Received: 04/13/21 14:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			354874	04/22/21 11:39	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	355061	04/25/21 07:24	T1W	TAL SEA

Lab Sample ID: 580-102418-2 Client Sample ID: S1-BD-041221

Matrix: Water Date Collected: 04/12/21 15:15

Date Received: 04/13/21 14:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			354874	04/22/21 11:39	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	355061	04/25/21 07:44	T1W	TAL SEA

Laboratory References:

TAL SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-102418-1

Project/Site: Skykomish Ground Water

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-21

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish Ground Water

Job ID: 580-102418-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-102418-1	S1-BU-041221	Water	04/12/21 14:45	04/13/21 14:00	
580-102418-2	S1-BD-041221	Water	04/12/21 15:15	04/13/21 14:00	

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SF Contact:	BNSF Work O	rtier No.			City/Stat	le/ZIP:	59660	دا	wH	ルジャ NV 98027		Phone:	"How de Her "How de Her which offer 5) 295-0800	Fax:	Sex 1 see
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elved by Laboratory: Jush LL EFGS	Date/Time:	1 1400	Lab Remarks:						L	ab: Custody intact?	Custody Se.	el No.	BNSF C	OC No	
IGINAL - RETURN TO LABORATORY WITH SAMPLES				DUF	PLICATE	- CONSUI	TANT					***		***************************************	TAL-1001 (0912)

Client: Farallon Consulting LLC

Job Number: 580-102418-1

Login Number: 102418

List Number: 1

Creator: Blankinship, Tom X

List Source: Eurofins TestAmerica, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
Γhe cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or ampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-102670-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 4/29/2021 12:42:08 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at: www.eurofinsus.com/Env This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Laboratory Job ID: 580-102670-1

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Receipt Checklists	12

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-102670-1

Job ID: 580-102670-1

Laboratory: Eurofins FGS, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC Project: Skykomish HCC System Report Number: 580-102670-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 04/26/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.3 C.

The Field Sampler was not listed on the Chain of Custody.

The chain of custody lists a container and a request for metals analysis. No metals sample container was received.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-042121 (580-102670-1) and HCC EFF-042121 (580-102670-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 04/27/2021 and analyzed on 04/28/2021.

The following sample contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: Before GAC-042121 (580-102670-1).

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-355189, so a LCS and LCSD were used instead.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC

Project/Site: Skykomish HCC System

Job ID: 580-102670-1

Glossary

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Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor

DII FAC DIIUTION FACTOR

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins FGS, Seattle

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-102670-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-042121 Lab Sample ID: 580-102670-1

Date Collected: 04/21/21 15:30 Matrix: Water

Date Collected: 04/21/21 15:30 Matrix: Water Date Received: 04/26/21 13:30

Method: NWTPH-Dx - No	orthwest - Semi-Volatile Po	etroleum Prod	ucts (GC)			
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.38	0.062	mg/L	04/27/21 11:32	04/28/21 19:04	1
Motor Oil (>C24-C36)	0.27	0.092	mg/L	04/27/21 11:32	04/28/21 19:04	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	83	50 - 150		04/27/21 11:32	04/28/21 19:04	1

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Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-102670-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-042121 Lab Sample ID: 580-102670-2

Date Collected: 04/21/21 15:40 Matrix: Water

Date Received: 04/26/21 13:30

Method: NWTPH-Dx - No	orthwest - Semi-Vo	olatile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		04/27/21 11:32	04/28/21 19:24	1
Motor Oil (>C24-C36)	ND		0.091		mg/L		04/27/21 11:32	04/28/21 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	77		50 - 150				04/27/21 11:32	04/28/21 19:24	1

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QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-102670-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-355189/1-A **Matrix: Water**

Lab Sample ID: LCS 580-355189/2-A

Analysis Batch: 355342

MB MB

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 355189

Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 04/27/21 11:32 04/28/21 18:05 #2 Diesel (C10-C24) ND 0.065 mg/L Motor Oil (>C24-C36) ND 0.096 mg/L 04/27/21 11:32 04/28/21 18:05

MB MB

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac o-Terphenyl 75 50 - 150 04/27/21 11:32 04/28/21 18:05

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 355189 %Rec.

LCS LCS Spike Added Result Qualifier Limits **Analyte** Unit D %Rec 0.500 50 - 120 #2 Diesel (C10-C24) 0.411 mg/L 82 Motor Oil (>C24-C36) 0.500 0.453 91 64 - 120 mg/L

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 94 50 - 150

Lab Sample ID: LCSD 580-355189/3-A

Matrix: Water

Matrix: Water

Analysis Batch: 355342

Analysis Batch: 355342

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 355189

RPD %Rec.

LCSD LCSD Spike Result Qualifier Limits RPD Analyte Added Unit %Rec Limit #2 Diesel (C10-C24) 0.500 0.440 88 50 - 120 26 mg/L Motor Oil (>C24-C36) 0.500 0.479 96 64 - 120 6 mg/L 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl 94

Eurofins FGS, Seattle

4/29/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-102670-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-042121

Lab Sample ID: 580-102670-1 Date Collected: 04/21/21 15:30 **Matrix: Water**

Date Received: 04/26/21 13:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			355189	04/27/21 11:32	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	355342	04/28/21 19:04	W1T	TAL SEA

Client Sample ID: HCC EFF-042121 Lab Sample ID: 580-102670-2

Date Collected: 04/21/21 15:40 **Matrix: Water**

Date Received: 04/26/21 13:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			355189	04/27/21 11:32	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	355342	04/28/21 19:24	W1T	TAL SEA

Laboratory References:

TAL SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-102670-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-21

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-102670-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-102670-1	Before GAC-042121	Water	04/21/21 15:30	04/26/21 13:30	
580-102670-2	HCC EFF-042121	Water	04/21/21 15:40	04/26/21 13:30	

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TestAmerica Seattle

Chain of Custody Record

Test/	4m	ner	ic	C

5755 8th Street East

THE LEADER IN ENVIRONMENTAL TESTING

Tacoma, WA 98424-1317 phone 253.922.2310 fax 253.922.5047	Regulate	ory Progra	ım:	bw	NPDES	-	RCR	A [Othe	r:				1(2	ص)	70		TestAn	erica I	Labora	atories	i, Inc
Client Contact	Project Mana	ger: Pete l	Kingst	on		Site	Con	tact:	Matt E	Bowse	er	D	ate:	4/3	21/2	71			COC No:	***************************************			
Farallong Consulting	Tel/Fax: 425	394-4146				Lab	Cont	tact: I	Kristiı	ne All	en	C	arrier	:					3	ن_ of	<u>, cc</u>	OCs	
975 5th Avenue Northwest		alysis Turn				\prod	g.								Π				Sampler:				
Issaquah, Washington	CALENDAR			KING DAY			ean												For Lab t		y:		
(425) 295-0800 Phone		different from E		500i	15	_ 2	2 2												Walk-in C	ient:	L		
(425) 295-0850 FAX	-	2 week	cs ,	(3)	7	3 2	- B	8.0											Lab Samp	ling:			
Project Name: Skykomish HCC System		weet	(mer	とう)	واخا	3 €	A 2	İ														
Site: WO # TT0100-S03		2 days				윤	ę	9											Job / SDG	No.:			
VVO # 110100-303	الما الما	1 day				Sample (Y \N)	2 2	a															
Sample Identification		ample (C:	imple Type Comp. Grab)	Matrix	# 04	Filtered S	NWTPH-Dx w/o stilca get cleanup	Total As, Pb (EPA 200.8)											Sa	mple Sp	ecific N	lotes:	
Before GAC- 042121	112175		Grab	W	2	2	х												***See ins	ruction	s below		
HCC EFF- 042121	4/2/19/15	340 c	Grab	W	3	N	х	×		-	-		$\perp \downarrow$						***See ins	ructions	below		
						+	H						+									···.	
						_		\perp															
Therm. ID: A 1. Cor: 2.2 ° Unc: 3.5 ° Cooler Dsc: Med 2.1 Packing: Cutlo FedEx: Cust. Seal: Yes No X Blue Ice, Wet, Dry, None Other:				580	-102 6 7	0 Cha	ain of	Cus	tody											******	The branch of th		
			I										1	\dashv	+	1	+						\dashv
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3;	5=NaOH: 6= Othe	7			9000000	1985 7496	2	4		4		8 60 KG	5 See 3	1000 N	İ			100000			220030000		
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please Comments Section if the lab is to dispose of the sample.			or the	sample ii	n the	Sa	2 P. T. T. T. T. C. C.	SPACE HEAD	osal ((A fee	e may	be as	sesse	d if sa	1 1 ample	es are	retai	ined	longer tha	n 1 mo	nth)		
Non-Hazard Flammable Skin Irritant	Poison B		Unknow				Ret	urn to	Client		7	Disposa	al by La	b		Arci	nive for		Mon	ins			I
pecial Instructions/QC Requirements & Comments: 1) D	requires spec	ial limits 0.	208 m	g/L, cum	rulative	, Fina	al Vo	lume	of 2 n	nL red	quired	1 2) No	o silic	a get	clear	up n	eeded	l for l	Dχ				
Custody Seals Intact: Yes No	Custody Seal N	Vo.:						Co	oler T	emp.	(°C): (Obs'd:		(Corr'c	l:		T	herm ID N	0.:			
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Client: Farallon Consulting LLC

Job Number: 580-102670-1

Login Number: 102670

List Number: 1

Creator: Blankinship, Tom X

List Source: Eurofins TestAmerica, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey neter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or ampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins TestAmerica, Seattle



Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-102744-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 5/4/2021 3:59:30 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

.....LINKS

Review your project results through

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Laboratory Job ID: 580-102744-1

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-102744-1

Job ID: 580-102744-1

Laboratory: Eurofins FGS, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC Project: Skykomish HCC System Report Number: 580-102744-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 04/29/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 6.0 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-042921 (580-102744-1) and HCC EFF-042921 (580-102744-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared and analyzed on 04/30/2021.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-355507, so a LCS and LCSD were used instead.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC
Project/Site: Skykomish HCC System

Job ID: 580-102744-1

Glossary

CNF

Olossai y	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

Contains No Free Liquid

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins FGS, Seattle

Page 4 of 12

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5/4/2021

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-102744-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-042921 Lab Sample ID: 580-102744-1

Date Collected: 04/29/21 10:58 Matrix: Water

Date Received: 04/29/21 13:45

Method: NWTPH-Dx - No	orthwest - Semi-Volatil	le Petroleum Prodi	ucts (GC)			
Analyte	Result Quali	ifier RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.41	0.063	mg/L	04/30/21 11:32	04/30/21 22:41	1
Motor Oil (>C24-C36)	0.18	0.093	mg/L	04/30/21 11:32	04/30/21 22:41	1
Surrogate	%Recovery Quali	ifier Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	50	50 - 150		04/30/21 11:32	04/30/21 22:41	1

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Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-102744-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-042921 Lab Sample ID: 580-102744-2

Date Collected: 04/29/21 11:00 Matrix: Water

Date Received: 04/29/21 13:45

Method: NWTPH-Dx - No	orthwest - Semi-Volati	ile Petroleum Prod	ucts (GC)				
Analyte	Result Qua	lifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.062	mg/L		04/30/21 11:32	04/30/21 23:01	1
Motor Oil (>C24-C36)	ND	0.091	mg/L		04/30/21 11:32	04/30/21 23:01	1
Surrogate	%Recovery Qua	lifier Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	66	50 - 150			04/30/21 11:32	04/30/21 23:01	1

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QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-102744-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-355507/1-A

Lab Sample ID: LCS 580-355507/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 355574

Analysis Batch: 355574

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 355507

MB MB Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 04/30/21 11:32 04/30/21 21:20 #2 Diesel (C10-C24) ND 0.065 mg/L Motor Oil (>C24-C36) ND 0.096 mg/L 04/30/21 11:32 04/30/21 21:20

MB MB

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 50 - 150 o-Terphenyl 78 04/30/21 11:32 04/30/21 21:20

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 355507

%Rec.

LCS LCS Spike Added Result Qualifier Limits **Analyte** Unit D %Rec 0.500 50 - 120 #2 Diesel (C10-C24) 0.405 mg/L 81 Motor Oil (>C24-C36) 0.500 0.436 mg/L 87 64 - 120

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 85 50 - 150

Lab Sample ID: LCSD 580-355507/3-A

Matrix: Water

Analysis Batch: 355574

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 355507

LCSD LCSD Spike %Rec. **RPD** Result Qualifier Limits RPD Analyte Added Unit %Rec Limit #2 Diesel (C10-C24) 0.500 0.346 69 50 - 120 16 26 mg/L Motor Oil (>C24-C36) 0.500 0.403 81 64 - 120 8 mg/L 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl 82

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-102744-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-042921

Lab Sample ID: 580-102744-1 Date Collected: 04/29/21 10:58 **Matrix: Water**

Date Received: 04/29/21 13:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			355507	04/30/21 11:32	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	355574	04/30/21 22:41	T1W	TAL SEA

Lab Sample ID: 580-102744-2 Client Sample ID: HCC EFF-042921

Matrix: Water Date Collected: 04/29/21 11:00

Date Received: 04/29/21 13:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			355507	04/30/21 11:32	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	355574	04/30/21 23:01	T1W	TAL SEA

Laboratory References:

TAL SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-102744-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-21

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-102744-1

_ab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
80-102744-1	Before GAC-042921	Water	04/29/21 10:58	04/29/21 13:45	
580-102744-2	HCC EFF-042921	Water	04/29/21 11:00	04/29/21 13:45	

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TestAmerica Seattle

Chain of Custody Record

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(425) 295-0800 Phone (425) 295-0850 FAX	1 6"	AT if different f	rom Below — weeks	nay			ge Z										n Client: implina:	ļ	
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are any samples from a listed EPA Hazardous Waste? Please L	ist any EPA	Waste Co	des for the	sample i	n the		•	•		-				- "		5		,	
Comments Section if the lab is to dispose of the sample. Non-Hazard Flammable Skin Irritant	Dele		79/31-1			4				photon				r 1.					
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Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

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Client: Farallon Consulting LLC

Job Number: 580-102744-1

Login Number: 102744

List Number: 1

Creator: Blankinship, Tom X

List Source: Eurofins TestAmerica, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-102906-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

Revision: 1

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 5/12/2021 4:51:40 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Laboratory Job ID: 580-102906-1

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-102906-1

Job ID: 580-102906-1

Laboratory: Eurofins FGS, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC Project: Skykomish HCC System Report Number: 580-102906-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This report has been revised to include reanalysis results for NWTPH-Dx due to a retention time issue.

RECEIPT

The samples were received on 05/06/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.9 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-5521 (580-102906-1) and HCC EFF-5521 (580-102906-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 05/07/2021 and analyzed on 05/10/2021.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC

Project/Site: Skykomish HCC System

Job ID: 580-102906-1

Glossary

DL, RA, RE, IN

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** Detection Limit (DoD/DOE) DL

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDI Method Petrotion Limit

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Eurofins FGS, Seattle

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-102906-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-5521 Lab Sample ID: 580-102906-1

Date Collected: 05/05/21 07:45

Matrix: Water

Date Received: 05/06/21 11:50

Method: NWTPH-Dx - No	orthwest - Semi-Volatile	e Petroleum Prod	ucts (GC)			
Analyte	Result Qualif	fier RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.38	0.062	mg/L	05/07/21 12:00	05/10/21 17:06	1
Motor Oil (>C24-C36)	0.29	0.091	mg/L	05/07/21 12:00	05/10/21 17:06	1
Surrogate	%Recovery Qualit	fier Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	67	50 - 150		05/07/21 12:00	05/10/21 17:06	1

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Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-102906-1

Project/Site: Skykomish HCC System

Date Received: 05/06/21 11:50

Client Sample ID: HCC EFF-5521 Lab Sample ID: 580-102906-2

Date Collected: 05/05/21 07:45

Matrix: Water

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

MELITOU. NAME LE LI-DY - MO	i tilwest - Sellii-Volatile Fe	ti Oleuili Fiou	ucis (GC)				
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.062	mg/L		05/07/21 12:00	05/10/21 17:26	1
Motor Oil (>C24-C36)	ND	0.091	mg/L		05/07/21 12:00	05/10/21 17:26	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	64	50 - 150			05/07/21 12:00	05/10/21 17:26	1

Client: Farallon Consulting LLC Job ID: 580-102906-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-356034/1-A

Lab Sample ID: LCS 580-356034/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 356218

Analysis Batch: 356267

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 356034

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	0.065	mg/L		05/07/21 12:00	05/11/21 11:59	1
Motor Oil (>C24-C36)	ND	0.096	mg/L	:	05/07/21 12:00	05/11/21 11:59	1

MB MB

MR MR

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 54 50 - 150 05/07/21 12:00 05/11/21 11:59

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 356034

%Rec.

LCS LCS Spike Added Result Qualifier Unit Limits **Analyte** D %Rec #2 Diesel (C10-C24) 0.500 50 - 120 0.325 mg/L 65 Motor Oil (>C24-C36) 0.500 0.363 73 64 - 120 mg/L

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 75 50 - 150

Lab Sample ID: LCSD 580-356034/3-A

Matrix: Water

Analysis Batch: 356218

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 356034

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.362		mg/L		72	50 - 120	11	26
Motor Oil (>C24-C36)	0.500	0.418		mg/L		84	64 - 120	14	24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 79 50 - 150 o-Terphenyl

Eurofins FGS, Seattle

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-102906-1 Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-5521

Lab Sample ID: 580-102906-1 Date Collected: 05/05/21 07:45

Matrix: Water

Date Received: 05/06/21 11:50

l		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	3510C			356034	05/07/21 12:00	JBT	TAL SEA
ı	Total/NA	Analysis	NWTPH-Dx		1	356218	05/10/21 17:06	JKM	TAL SEA

Lab Sample ID: 580-102906-2 **Client Sample ID: HCC EFF-5521**

Date Collected: 05/05/21 07:45 **Matrix: Water**

Date Received: 05/06/21 11:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			356034	05/07/21 12:00	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	356218	05/10/21 17:26	JKM	TAL SEA

Laboratory References:

TAL SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-102906-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-21

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-102906-1

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
80-102906-1	Before GAC-5521	Water	05/05/21 07:45	05/06/21 11:50	
80-102906-2	HCC EFF-5521	Water	05/05/21 07:45	05/06/21 11:50	

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TestAmerica Seattle

Chain of Custody Record

TestAmerica

5755 8th Street East

THE LEADER IN ENVIRONMENTAL TESTIN Tacoma, WA 98424-1317 102,906 phone 253.922.2310 fax 253.922.5047 Regulatory Program: DW **✓ NPDES** TestAmerica Laboratories, Inc. **Client Contact** Project Manager: Pete Kingston Site Contact: Matt Bowser COC No: Date: 5 - 5 - 2 \ Farallong Consulting Tel/Fax: 425-394-4146 Lab Contact: Kristine Allen Carrier: of _______ COCs 975 5th Avenue Northwest **Analysis Turnaround Time** NWTPH-Dx w/o silica gel cleanup Sampler: Issaguah, Washington CALENDAR DAYS WORKING DAYS For Lab Use Only: (425) 295-0800 Phone Perform MS / MSD (Y / N) TAT if different from Below 3 DAY Walk-in Client: (425) 295-0850 FAX 2 weeks Lab Sampling: Project Name: Skykomish HCC System 1 week 2 days Job / SDG No.: WO # TT0100-S03 1 day Sample Type Sample Sample # of (C=Comp, Sample Identification Date Time Matrix G=Grab) Cont. Sample Specific Notes: 5-5-21 Before GAC- 5521 7:45 Grab W **See instructions below HCC EFF- 5521 5-5-21 Grab W **See instructions below Therm. ID: 189 Cor: 0,9 . Unc: 0.7 . -Cooler Dsc: FedEx:_ Packing: Cust. Seal: Yes__No_X Lab Cour: 🛪 Blue Ice Wet, Dry, None Other: Preservation Used: 1= ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client Disposal by Lab Special Instructions/QC Requirements & Comments: 1) DxRx requires special limits 0.208 mg/L, cumulative, Final Volume of 2 mL required 2) No silica get cleanup needed for Dx Custody Seals Intact: Yes No Custody Seal No.: Cooler Temp. (°C): Obs'd: Corr'd: Therm ID No.: Relinquished by Company: Date/Time: Received by Company: Date/Time: Glacier 5-5-21 10:4 Kulla Relinguished by: Company: Date/Time: Received by: Company: Date/Time: Relinguished by: Received in Laboratory by: Company: Date/Time: Company: Date/Time:

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

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Client: Farallon Consulting LLC

Job Number: 580-102906-1

Login Number: 102906

List Number: 1

Creator: Blankinship, Tom X

List Source: Eurofins TestAmerica, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-103086-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 5/20/2021 5:16:35 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

Review your project results through

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Visit us at: www.eurofinsus.com/Env This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Laboratory Job ID: 580-103086-1

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-103086-1

Job ID: 580-103086-1

Laboratory: Eurofins FGS, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC Project: Skykomish HCC System Report Number: 580-103086-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 05/14/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.6 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-051321 (580-103086-1) and HCC EFF-051321 (580-103086-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 05/17/2021 and analyzed on 05/18/2021.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICPMS)

Sample HCC EFF-051321 (580-103086-2) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 05/17/2021 and analyzed on 05/19/2021.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-103086-1 Project/Site: Skykomish HCC System

Glossary

DL, RA, RE, IN

These commonly used abbreviations may or may not be present in this report.
Listed under the "D" column to designate that the result is reported on a dry weight basis
Percent Recovery
Contains Free Liquid
Colony Forming Unit
Contains No Free Liquid
Duplicate Error Ratio (normalized absolute difference)
Dilution Factor
Detection Limit (DoD/DOE)

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry) **EDL** Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-103086-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-051321 Lab Sample ID: 580-103086-1

Date Collected: 05/13/21 14:05

Matrix: Water

Date Received: 05/14/21 13:30

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.32	0.062	mg/L		05/17/21 11:29	05/18/21 20:52	1
Motor Oil (>C24-C36)	0.24	0.091	mg/L		05/17/21 11:29	05/18/21 20:52	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	87	50 - 150			05/17/21 11:29	05/18/21 20:52	1

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Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-103086-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-051321

Date Collected: 05/13/21 14:15 Date Received: 05/14/21 13:30

Lead

Lab Sample ID: 580-103086-2

05/17/21 08:48 05/19/21 01:56

Matrix: Water

Method: NWTPH-Dx - No	orthwest - Semi-V	olatile Pet	roleum Prod	ucts (G0	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		05/17/21 11:29	05/18/21 21:12	1
Motor Oil (>C24-C36)	ND		0.091		mg/L		05/17/21 11:29	05/18/21 21:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	72		50 - 150				05/17/21 11:29	05/18/21 21:12	1
- Method: 200.8 - Metals (ICP/MS)								
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0017		0.0010		mg/L		05/17/21 08:48	05/19/21 01:56	1

0.00040

mg/L

ND

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Client: Farallon Consulting LLC Job ID: 580-103086-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-356721/1-A

Lab Sample ID: LCS 580-356721/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 356860

Analysis Batch: 356860

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 356721

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.065	mg/L		05/17/21 11:29	05/18/21 19:53	1
Motor Oil (>C24-C36)	ND	0.096	mg/L		05/17/21 11:29	05/18/21 19:53	1

MB MB

MR MR

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 81 50 - 150 05/17/21 11:29 05/18/21 19:53

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 356721**

%Rec.

LCS LCS Spike Added Result Qualifier Unit Limits **Analyte** D %Rec #2 Diesel (C10-C24) 0.500 50 - 120 0.478 mg/L 96 Motor Oil (>C24-C36) 0.500 0.483 97 64 - 120 mg/L

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 95 50 - 150

Lab Sample ID: LCSD 580-356721/3-A

Matrix: Water

Analysis Batch: 356860

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 356721

_	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.458		mg/L		92	50 - 120	4	26
Motor Oil (>C24-C36)	0.500	0.477		mg/L		95	64 - 120	1	24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-356692/13-A

Matrix: Water

Analysis Batch: 356903

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 356692

-	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010		mg/L		05/17/21 08:48	05/19/21 01:06	1
Lead	ND		0.00040		mg/L		05/17/21 08:48	05/19/21 01:06	1

Lab Sample ID: LCS 580-356692/14-A

Matrix: Water

Analysis Batch: 356903

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 356692

	Spike	LCS	LCS			%Rec.
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits
Arsenic	1.00	1.02	mg/L		102	85 - 115
Lead	1.00	0.976	mg/L		98	85 - 115

Eurofins FGS, Seattle

Client: Farallon Consulting LLC Job ID: 580-103086-1

Project/Site: Skykomish HCC System

Lead

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-356692/15-A	Clie	ent Sample ID: Lab Control Sample Dup)
Matrix: Water		Prep Type: Total/NA	4
Analysis Batch: 356903		Prep Batch: 356692	2
Snike	LCSD LCSD	%Rec. RPI)

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	1.00	1.02		mg/L		102	85 - 115	0	20
Lead	1.00	0.968		mg/L		97	85 - 115	1	20

Lab Sample ID: 580-10307 Matrix: Water Analysis Batch: 356903					C	lient Sa	mple ID: Matrix Spike Prep Type: Total/NA Prep Batch: 356692		
-	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	ND		1.00	1.07		mg/L		107	70 - 130
Lead	ND		1.00	0.964		mg/L		96	70 - 130

Lab Sample ID: 580-103072-A-1-D MSD Matrix: Water Analysis Batch: 356903						Client	Samp	le ID: N	latrix Spil Prep Ty Prep Ba	pe: Tot	al/NA
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	ND		1.00	1.09		mg/L		109	70 - 130	2	20
Lead	ND		1.00	0.984		mg/L		98	70 - 130	2	20

Lab Sample ID. 500-1030/2-A-1-B D	U				Cilent	Sample ID. Dup	licate
Matrix: Water						Prep Type: Tot	al/NA
Analysis Batch: 356903						Prep Batch: 38	6692
Sampl	e Sample	DU	DU				RPD
Analyte Resu	lt Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Arsenic N	5	ND		mg/L		NC	20

ND

mg/L

ND

NC

20

5/20/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-103086-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-051321

Lab Sample ID: 580-103086-1 Date Collected: 05/13/21 14:05 **Matrix: Water**

Batch Batch Dilution Batch Prepared **Prep Type** Method Factor or Analyzed Type Run Number Analyst Lab Total/NA Prep 3510C 356721 05/17/21 11:29 PMS FGS SEA Total/NA NWTPH-Dx 356860 05/18/21 20:52 TL1 FGS SEA Analysis 1

Client Sample ID: HCC EFF-051321 Lab Sample ID: 580-103086-2

Date Collected: 05/13/21 14:15 **Matrix: Water**

Date Received: 05/14/21 13:30

Date Received: 05/14/21 13:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			356721	05/17/21 11:29	PMS	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	356860	05/18/21 21:12	TL1	FGS SEA
Total/NA	Prep	200.8			356692	05/17/21 08:48	JLS	FGS SEA
Total/NA	Analysis	200.8		1	356903	05/19/21 01:56	FCW	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-103086-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-21

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-103086-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-103086-1	Before GAC-051321	Water	05/13/21 14:05	05/14/21 13:30	
580-103086-2	HCC EFF-051321	Water	05/13/21 14:15	05/14/21 13:30	

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TestAmerica Seattle

5755 8th Street East

Chain of Custody Record

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THE LEADER IN ENVIRONMENTAL TESTING Tacoma, WA 98424-1317 phone 253,922,2310 fax 253,922,5047 Regulatory Program: Dw NPDES Other: TestAmerica Laboratories, Inc. **Client Contact** Project Manager: Pete Kingston Site Contact: Matt Bowser Date: Farallong Consulting Tel/Fax: 425-394-4146 ab Contact: Kristine Allen Carrier: of 2... COCs 975 5th Avenue Northwest **Analysis Turnaround Time** Sampler: Issaguah, Washington CALENDAR DAYS WORKING DAYS For Lab Use Only: (425) 295-0800 Phone TAT if different from Below Walk-in Client: (425) 295-0850 FAX 2 weeks Lab Sampling: Project Name: Skykomish HCC System 1 week Site: 2 days Job / SDG No.: WO # TT0100-S03 1 day NWTPH-Dx Sample Type Sample Sample # of (C=Comp, Sample Identification Date Time G≈Grab) Matrix Cont. Sample Specific Notes: 5/13/21 405 Before GAC- OSI321 Grab W **See instructions below 5/13/21 1115 HCC EFF- 051321 Grab W 3 **See instructions below Therm ID: A1 Cor: 3.60 Unc: 2.50 Cooler Dsc: LC YSI Lab Cour:_ Blue Ice Wer Dry, None Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. ✓ Non-Hazard Skin Irritant Poison B Unknown Return to Client ✓ Disposal by Lab Special Instructions/QC Requirements & Comments: 1) DxRx requires special limits 0.208 mg/L, cumulative, Final Volume of 2 mL required 2) No silica get cleanup needed for Dx Custody Seals Intact: Custody Seal No .: Cooler Temp. (°C): Obs'd: Corr'd: Therm ID No. Date/Time: 5/14/ Relinquished by: Date/Time: Received by: Company: S13/21 1802 Relinguished by: Company: Date/Time: Received by: Company: Date/Time: Relinquished by: Company: Date/Time: Received in Laboratory by: Company: Date/Time:

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-103086-1

Login Number: 103086 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Blankinship, Tom X

oroator. Blankmomp, rom x		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-103188-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

eurofins 💸

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 5/26/2021 3:37:13 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

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Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Laboratory Job ID: 580-103188-1

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Job ID: 580-103188-1

Job ID: 580-103188-1

Laboratory: Eurofins FGS, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC Project: Skykomish HCC System Report Number: 580-103188-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 05/20/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.8 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-51921 (580-103188-1) and HCC EFF-51921 (580-103188-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 05/20/2021 and analyzed on 05/25/2021.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-357032, so a LCS and LCSD were used instead.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-103188-1

Project/Site: Skykomish HCC System

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** Detection Limit (DoD/DOE) DL DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)
EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-103188-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-51921 Lab Sample ID: 580-103188-1

Date Collected: 05/19/21 09:00 Matrix: Water Date Received: 05/20/21 11:45

Mathed NMTDU Dec Northwest Const Valetile Betreleure Breducte (CO)

Method: NWTPH-Dx - Nor	thwest - Semi-Volatile Pet	roleum Prod	ucts (GC)			
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.45	0.062	mg/L	05/20/21 17:01	05/25/21 00:25	1
Motor Oil (>C24-C36)	0.35	0.091	mg/L	05/20/21 17:01	05/25/21 00:25	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	82	50 - 150		05/20/21 17:01	05/25/21 00:25	1

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Client Sample Results

Job ID: 580-103188-1

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-51921 Lab Sample ID: 580-103188-2 Date Collected: 05/19/21 09:00

Matrix: Water

Date Received: 05/20/21 11:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		05/20/21 17:01	05/25/21 00:44	1
Motor Oil (>C24-C36)	ND		0.092		mg/L		05/20/21 17:01	05/25/21 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150				05/20/21 17:01	05/25/21 00:44	1

QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-103188-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-357032/1-A

Lab Sample ID: LCS 580-357032/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 357329

Analysis Batch: 357329

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 357032

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065		mg/L		05/20/21 17:01	05/24/21 23:05	1
Motor Oil (>C24-C36)	ND		0.096		mg/L		05/20/21 17:01	05/24/21 23:05	1

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac o-Terphenyl 78 50 - 150 05/20/21 17:01 05/24/21 23:05

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 357032

%Rec.

LCS LCS Spike Added Result Qualifier Limits **Analyte** Unit D %Rec #2 Diesel (C10-C24) 0.500 50 - 120 0.449 mg/L 90 Motor Oil (>C24-C36) 0.500 0.472 mg/L 94 64 - 120

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 94 50 - 150

Lab Sample ID: LCSD 580-357032/3-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Water

Analysis Batch: 357329

Prep Type: Total/NA **Prep Batch: 357032**

LCSD LCSD RPD Spike %Rec. Result Qualifier Limits RPD Limit Analyte Added Unit %Rec #2 Diesel (C10-C24) 0.500 0.450 90 50 - 120 26 mg/L Motor Oil (>C24-C36) 0.500 0.471 94 64 - 120 mg/L 0 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl 88

Eurofins FGS, Seattle

5/26/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-103188-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-51921

Lab Sample ID: 580-103188-1 Date Collected: 05/19/21 09:00 **Matrix: Water**

Batch Batch Dilution Batch Prepared **Prep Type** Method **Factor** Number or Analyzed Analyst Type Run Lab Total/NA Prep 3510C 357032 05/20/21 17:01 JBT FGS SEA Total/NA NWTPH-Dx 357329 05/25/21 00:25 RBL FGS SEA Analysis 1

Client Sample ID: HCC EFF-51921 Lab Sample ID: 580-103188-2

Date Collected: 05/19/21 09:00 **Matrix: Water**

Date Received: 05/20/21 11:45

Date Received: 05/20/21 11:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			357032	05/20/21 17:01	JBT	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	357329	05/25/21 00:44	RBL	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC

Job ID: 580-103188-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-21

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-103188-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-103188-1	Before GAC-51921	Water	05/19/21 09:00	05/20/21 11:45	
580-103188-2	HCC EFF-51921	Water	05/19/21 09:00	05/20/21 11:45	

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TestAmerica Seattle 5755 8th Street East

Chain of Custody Record

TestAr	nerico

Tacoma, WA 98424-1317 phone 253,922,2310 fax 253,922,5047	Page	inton: Dra		ا ساحت			~~~		~					1	07	100	4	THE LEADE				
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	Sample	Sample	Type		# of	ered	NWTPH-Dx															
Sample Identification	Date	Time	(C≈Comp, G≃Grab)	Matrix	Cont.	Filt	Ž											San	nple Spe	cific No	ites:	
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reservation Used: 1= lce, 2= HCl; 3= H2SO4; 4=HNO3; 5=	NaOH; 6= 0	ther					2)						(1000 1 00	`					
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please L Comments Section if the lab is to dispose of the sample.	ist any EPA	Waste Cod	les for the	sample ir	the	Sa	ample	Dispo	sal (/	\ fee	may l	be ass	essed	if san	nples	are re	lained	longer tha	ı 1 moni	th)		٦
Non-Hazard Flammable Skin Irritant	Poison B	·	Unknov	WD.		-	De	turn to C	liont		CD.	D:	by Lab		(Archive	for	Mont				
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Login Sample Receipt Checklist

Client: Farallon Consulting LLC Job Number: 580-103188-1

Login Number: 103188 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Blankinship, Tom X

Creator. Dialikiliship, Tolli A		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-103393-1

Client Project/Site: BNSF Skykomish Rush NPDES

Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 6/2/2021 3:13:06 PM

Nathan Lewis, Project Manager I

(253)922-2310

Nathan.Lewis@Eurofinset.com

····· Links ·····

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Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES Laboratory Job ID: 580-103393-1

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Case Narrative

Client: Farallon Consulting LLC

Job ID: 580-103393-1 Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-103393-1

Laboratory: Eurofins FGS, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC **Project: BNSF Skykomish Rush NPDES** Report Number: 580-103393-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 05/27/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.7 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC - 5/26/21 (580-103393-1) and HCC EFF - 5/26/21 (580-103393-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 06/01/2021 and analyzed on 06/01/2021 and 06/02/2021.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-357958, so a LCS and LCSD were used instead.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-103393-1

Project/Site: BNSF Skykomish Rush NPDES

Glossary

MDL

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

Method Detection Limit

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

6/2/2021

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Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-103393-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC - 5/26/21 Lab Sample ID: 580-103393-1

Date Received: 05/27/21 11:30

Method: NWTPH-Dx - No	rthwest - Semi-Volatile P	etroleum Prod	ucts (GC)			
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.32	0.062	mg/L	06/01/21 11:47	06/01/21 23:40	1
Motor Oil (>C24-C36)	0.24	0.091	mg/L	06/01/21 11:47	06/01/21 23:40	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	68	50 - 150		06/01/21 11:47	06/01/21 23:40	1

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Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-103393-1

Project/Site: BNSF Skykomish Rush NPDES

Date Received: 05/27/21 11:30

Client Sample ID: HCC EFF - 5/26/21 Lab Sample ID: 580-103393-2

Date Collected: 05/26/21 10:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		06/01/21 11:47	06/02/21 00:00	1
Motor Oil (>C24-C36)	ND		0.091		mg/L		06/01/21 11:47	06/02/21 00:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	65		50 - 150				06/01/21 11:47	06/02/21 00:00	1

QC Sample Results

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-103393-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-357958/1-A

Lab Sample ID: LCS 580-357958/2-A

Matrix: Water

Analysis Batch: 358012

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 357958

MB MB Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 06/01/21 11:47 06/01/21 22:20 #2 Diesel (C10-C24) ND 0.065 mg/L Motor Oil (>C24-C36) ND 0.096 mg/L 06/01/21 11:47 06/01/21 22:20

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 72 50 - 150 06/01/21 11:47 06/01/21 22:20

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 357958

%Rec.

LCS LCS Spike Added Result Qualifier Limits **Analyte** Unit D %Rec 0.500 50 - 120 #2 Diesel (C10-C24) 0.418 mg/L 84 Motor Oil (>C24-C36) 0.500 0.477 mg/L 95 64 - 120

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 80 50 - 150

Lab Sample ID: LCSD 580-357958/3-A

Matrix: Water

Matrix: Water

Analysis Batch: 358012

Analysis Batch: 358012

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 357958

LCSD LCSD Spike %Rec. **RPD** Result Qualifier Limits RPD Analyte Added Unit %Rec Limit #2 Diesel (C10-C24) 0.500 0.472 94 50 - 120 12 26 mg/L Motor Oil (>C24-C36) 0.500 0.517 103 64 - 120 mg/L 8 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl 93

6/2/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-103393-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC - 5/26/21

Lab Sample ID: 580-103393-1

Date Collected: 05/26/21 10:00 **Matrix: Water** Date Received: 05/27/21 11:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			357958	06/01/21 11:47	PMS	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	358012	06/01/21 23:40	ADB	FGS SEA

Lab Sample ID: 580-103393-2 Client Sample ID: HCC EFF - 5/26/21

Matrix: Water Date Collected: 05/26/21 10:00

Date Received: 05/27/21 11:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			357958	06/01/21 11:47	PMS	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	358012	06/02/21 00:00	ADB	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-103393-1

Project/Site: BNSF Skykomish Rush NPDES

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-21

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Sample Summary

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received
 Asset ID

 580-103393-1
 Before GAC - 5/26/21
 Water
 05/26/21 10:00
 05/27/21 11:30

 580-103393-2
 HCC EFF - 5/26/21
 Water
 05/26/21 10:00
 05/27/21 11:30

Job ID: 580-103393-1

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TestAmerica Seattle

Chain of Custody Record

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5755 8th Street East

Tacoma, WA 98424-1317 Regulatory Program: DW NPDES phone 253.922.2310 fax 253.922.5047 Other: RCRA TestAmerica Laboratories, Inc. Date:5-26 -21 Project Manager: Pete Kingston **Client Contact** COC No: Site Contact: Matt Bowser Tel/Fax: 425-394-4146 Farallong Consulting Lab Contact: Kristine Allen of 2 Carrier: COCs 975 5th Avenue Northwest **Analysis Turnaround Time** Th w/o silica gel cleanup Sampler: CALENDAR DAYS WORKING DAYS Issaguah, Washington For Lab Use Only: (425) 295-0800 Phone Walk-in Client: TAT if different from Below (425) 295-0850 FAX 2 weeks Lab Sampling: Project Name: Skykomish HCC System 1 week 2 days Job / SDG No.: WO # TT0100-S03 1 day Sample Type Sample Sample (C=Comp. # of Sample Identification Date Time G≈Grab) Matrix Cont. Sample Specific Notes: Before GAC- ラス62 W Grab **See instructions below 100 HCC EFF. 53621 Grab W **See instructions below Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification: Therm. ID: ILS Cor: 0, 7. Unc: 1, 2. Sample Disposal (A fee may be assess Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. Cooler Dsc: ✓ Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client Disposal by Special Instructions/QC Requirements & Comments: 1) DxRx requires special limits 0.208 mg/L, cumulative, Final Volume of 2 mL required 2) No sil Lab Cour: Blue Ice, Wet, Dry, None Other: Custody Seals Intact: Custody Seal No.: Cooler Temp. (°C): Obs'd: No Corr'd: Therm ID No.: Relinquished by; Date/Time; Company: Received by: Company: Date/Time! 5/20/21 Stacle/ Relinguished by: Company: Date/Time: Received by: Company: Relinquished by: Date/Time: Received in Laboratory by: Company: Company:

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

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Login Sample Receipt Checklist

Client: Farallon Consulting LLC Job Number: 580-103393-1

Login Number: 103393 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Vallelunga, Diana L

Greator: Vallelunga, Diana L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-103504-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 6/7/2021 4:37:04 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Laboratory Job ID: 580-103504-1

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Job ID: 580-103504-1

Job ID: 580-103504-1

Laboratory: Eurofins FGS, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC Project: Skykomish HCC System Report Number: 580-103504-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 06/02/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.3 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-6121 (580-103504-1) and HCC EFF-6121 (580-103504-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 06/03/2021 and analyzed on 06/04/2021.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-358155, so a LCS and LCSD were used instead.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-103504-1

Project/Site: Skykomish HCC System

Glossary

DLC

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DI RARE IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

Decision Level Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

6/7/2021

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Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-103504-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-6121 Lab Sample ID: 580-103504-1

Date Collected: 06/01/21 10:30 Matrix: Water

Date Received: 06/02/21 11:30 Matrix: Water

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)										
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac			
#2 Diesel (C10-C24)	0.41	0.062	mg/L		06/03/21 08:47	06/04/21 02:52	1			
Motor Oil (>C24-C36)	0.30	0.091	mg/L		06/03/21 08:47	06/04/21 02:52	1			
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac			
o-Terphenyl	85	50 - 150			06/03/21 08:47	06/04/21 02:52	1			

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Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-103504-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-6121 Lab Sample ID: 580-103504-2

Date Collected: 06/01/21 10:30 Matrix: Water

Date Collected: 06/01/21 10:30 Matrix: water Date Received: 06/02/21 11:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.061		mg/L		06/03/21 08:47	06/04/21 03:11	1
Motor Oil (>C24-C36)	ND		0.091		mg/L		06/03/21 08:47	06/04/21 03:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	77		50 - 150				06/03/21 08:47	06/04/21 03:11	1

QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-103504-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-358155/1-A

Lab Sample ID: LCS 580-358155/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 358234

Analysis Batch: 358234

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 358155

MB MB Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 06/03/21 08:47 06/04/21 01:52 #2 Diesel (C10-C24) ND 0.065 mg/L Motor Oil (>C24-C36) ND 0.096 mg/L 06/03/21 08:47 06/04/21 01:52

MB MB

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac o-Terphenyl 68 50 - 150 06/03/21 08:47 06/04/21 01:52

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 358155

%Rec.

LCS LCS Spike Added Result Qualifier Limits **Analyte** Unit D %Rec 0.500 50 - 120 #2 Diesel (C10-C24) 0.518 mg/L 104 Motor Oil (>C24-C36) 0.500 0.580 116 64 - 120 mg/L

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 97 50 - 150

Lab Sample ID: LCSD 580-358155/3-A

Matrix: Water

Analysis Batch: 358234

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 358155

LCSD LCSD Spike %Rec. **RPD** Result Qualifier Limits RPD Analyte Added Unit %Rec Limit #2 Diesel (C10-C24) 0.500 0.477 95 50 - 120 26 mg/L 8 Motor Oil (>C24-C36) 0.500 0.547 109 64 - 120 mg/L 6 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl 89

Eurofins FGS, Seattle

6/7/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-103504-1

Project/Site: Skykomish HCC System

Date Received: 06/02/21 11:30

Client Sample ID: Before GAC-6121

Lab Sample ID: 580-103504-1 Date Collected: 06/01/21 10:30

Matrix: Water

Batch Batch Dilution Batch Prepared **Prep Type** Method **Factor** Number or Analyzed Analyst Type Run Lab Total/NA Prep 3510C 358155 06/03/21 08:47 PMS FGS SEA Total/NA NWTPH-Dx 358234 06/04/21 02:52 ADB FGS SEA Analysis 1

Client Sample ID: HCC EFF-6121 Lab Sample ID: 580-103504-2

Date Collected: 06/01/21 10:30 **Matrix: Water**

Date Received: 06/02/21 11:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			358155	06/03/21 08:47	PMS	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	358234	06/04/21 03:11	ADB	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-103504-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-21

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-103504-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-103504-1	Before GAC-6121	Water	06/01/21 10:30	06/02/21 11:30	
580-103504-2	HCC EFF-6121	Water	06/01/21 10:30	06/02/21 11:30	

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5755 8th Street East

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING Tacoma, WA 98424-1317 phone 253.922.2310 fax 253.922.5047 Regulatory Program: Dw ✓ NPDES RCRA Other: TestAmerica Laboratories, Inc. Client Contact Project Manager: Pete Kingston Date: 6/1/21 COC No: Site Contact: Matt Bowser Farallong Consulting Tel/Fax: 425-394-4146 Lab Contact: Kristine Allen Carrier: of Z COCs 975 5th Avenue Northwest Analysis Turnaround Time TW Sampler: Issaquah, Washington CALENDAR DAYS WORKING DAYS For Lab Use Only: (425) 295-0800 Phone TAT if different from Below 3 day Walk-in Client: (425) 295-0850 FAX 2 weeks Lab Sampling: Project Name: Skykomish HCC System 1 week Site: 2 days Job / SDG No.: WO # TT0100-S03 1 day Sample 103504 Type Sample Sample (C=Comp. Sample Identification Date Time G=Grab) Matrix Cont. Sample Specific Notes: 6/1/21 Before GAC- 6121 Grab W **See instructions below 10 30 HCC EFF-6/1/21 Grab W ***See instructions below Therm. ID: A 1 Cor: 0, 3 . Unc: 0.5 . Cooler Dsc: Laca Cust. Seal: Yes__No X Lab Cour: Blue Ice Web Dry, None Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. ✓ Non-Hazard Skin Irritant Flammable Poison B Unknown Return to Client Special Instructions/QC Requirements & Comments: 1) DxRx requires special limits 0.208 mg/L, cumulative, Final Volume of 2 mL required 2) No silica get cleanup needed for Dx Custody Seals Intact: Yes No Custody Seal No.: Cooler Temp. (°C): Obs'd: Corr'd: Therm ID No.: Relinguished by Date/Time: Received by Company: Date/Time: GRICIER 6/1/21 Relinguished by: Company: Date/Time: Date/Time: Relinquished by: Company: Date/Time: Received in Laboratory by: Company Date/Time:

6/7/2021

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-103504-1

Login Number: 103504 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Blankinship, Tom X

Creator. Diankinship, Tolli A		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-103689-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

Revision: 2

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaguah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 7/8/2021 4:12:10 PM

Nathan Lewis, Project Manager I

(253)922-2310

Nathan.Lewis@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Laboratory Job ID: 580-103689-1

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-103689-1

Job ID: 580-103689-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-103689-1

Comments

This report has been revised. Client samples IDs were switched at client request after it was determined that they had been switched in the field. The report was revised a second time to update the case narrative.

Receipt

The samples were received on 6/9/2021 11:07 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8° C.

GC Semi VOA

Method NWTPH-Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: Before GAC-060821 (580-103689-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-358808, so a LCS and LCSD were used instead.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-103689-1

Project/Site: Skykomish HCC System

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)
EDL Estimated Detection Limit (Dioxin)

EDL Estimated Detection Limit (Dioxin
LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-103689-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-060821 Lab Sample ID: 580-103689-1

Date Collected: 06/08/21 11:35 Matrix: Water

Date Received: 06/09/21 11:07

Method: NWTPH-Dx - No	orthwest - Semi-Volatile Pe	troleum Prod	ucts (GC)			
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.062	mg/L	06/10/21 09:24	06/10/21 23:05	1
Motor Oil (>C24-C36)	ND	0.092	mg/L	06/10/21 09:24	06/10/21 23:05	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
o-Terphenvl	77	50 - 150		06/10/21 09:24	06/10/21 23:05	

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Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-103689-1

Project/Site: Skykomish HCC System

Lead

Client Sample ID: Before GAC-060821 Lab Sample ID: 580-103689-2

ND

Date Collected: 06/08/21 11:45
Date Received: 06/09/21 11:07

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.45		0.062		mg/L		06/10/21 09:24	06/10/21 23:26	1
Motor Oil (>C24-C36)	0.35		0.092		mg/L		06/10/21 09:24	06/10/21 23:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	77		50 - 150				06/10/21 09:24	06/10/21 23:26	1
Method: 200.8 - Metals (I	ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			0.0010				06/09/21 15:50	06/10/21 14:09	

0.00040

mg/L

06/09/21 15:50 06/10/21 14:09

Job ID: 580-103689-1

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-358808/1-A

Lab Sample ID: LCS 580-358808/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 358942

Analysis Batch: 358942

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 358808

	MB MB						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.065	mg/L		06/10/21 09:24	06/10/21 21:26	1
Motor Oil (>C24-C36)	ND	0.096	mg/L		06/10/21 09:24	06/10/21 21:26	1

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 80 50 - 150 06/10/21 09:24 06/10/21 21:26

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 358808

Spike LCS LCS %Rec. Added Result Qualifier Unit Limits **Analyte** D %Rec #2 Diesel (C10-C24) 0.500 50 - 120 0.442 mg/L 88 Motor Oil (>C24-C36) 0.500 0.462 92 64 - 120 mg/L

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 96 50 - 150

Lab Sample ID: LCSD 580-358808/3-A

Matrix: Water

Analysis Batch: 358942

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 358808

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.388		mg/L		78	50 - 120	13	26
Motor Oil (>C24-C36)	0.500	0.417		mg/L		83	64 - 120	10	24

LCSD LCSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 50 - 150

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-358756/14-A

Matrix: Water

Analysis Batch: 358955

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 358756

-	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010		mg/L		06/09/21 15:50	06/10/21 14:05	1
Lead	ND		0.00040		mg/L		06/09/21 15:50	06/10/21 14:05	1

Lab Sample ID: LCS 580-358756/15-A

Matrix: Water

Analysis Batch: 358955

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 358756

	Spike	LCS	LCS			%Rec.
Analyte	Added	Result	Qualifier U	nit D	%Rec	Limits
Arsenic	1.00	0.979	n	ng/L	98	85 - 115
Lead	1.00	0.978	n	ng/L	98	85 - 115

Eurofins FGS, Seattle

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Job ID: 580-103689-1

Method: 200.8 - Metals (ICP/MS) (Continued)

ND

ND

Lab Sample ID: LCSD 580-358756/16-A

Matrix: Water

Analysis Batch: 358955

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 358756

101

105

70 - 130

70 - 130

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte Arsenic 1.00 1.00 mg/L 100 85 - 115 3 20 Lead 1.00 1.00 mg/L 100 85 - 115 20

Lab Sample ID: 580-103580-D-1-C MS **Client Sample ID: Matrix Spike** Prep Type: Total/NA

Matrix: Water

Analyte

Arsenic

Lead

Lead

Analysis Batch: 358955

Prep Batch: 358756 Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier Unit %Rec Limits 0.0016 1.00 1.02 mg/L 102 70 - 130

1.01

1.05

mg/L

mg/L

Lab Sample ID: 580-103580-D-1-D MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Water** Prep Type: Total/NA Analysis Batch: 358955 **Prep Batch: 358756** Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier RPD Analyte Unit D %Rec Limits Limit Arsenic 0.0016 1.00 1.05 mg/L 105 70 - 130 3 20

1.00

1 00

Lab Sample ID: 580-103580-D-1-B DU Client Sample ID: Duplicate Prep Type: Total/NA

Matrix: Water

Analysis Batch: 358955 Prep Batch: 358756 DU DU **RPD** Sample Sample RPD Analyte Result Qualifier Result Qualifier Unit D Limit Arsenic 0.0016 0.00176 mg/L 10 20 ND ND NC 20 Lead mg/L

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-103689-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-060821

Lab Sample ID: 580-103689-1 Date Collected: 06/08/21 11:35

Matrix: Water

Batch Batch Dilution Batch Prepared Method or Analyzed **Prep Type** Type Run **Factor** Number Analyst Lab Prep Total/NA 3510C 358808 06/10/21 09:24 N1B FGS SEA Total/NA NWTPH-Dx 358942 06/10/21 23:05 W1T FGS SEA Analysis 1

Client Sample ID: Before GAC-060821 Lab Sample ID: 580-103689-2

Date Collected: 06/08/21 11:45 **Matrix: Water**

Date Received: 06/09/21 11:07

Date Received: 06/09/21 11:07

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			358808	06/10/21 09:24	N1B	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	358942	06/10/21 23:26	W1T	FGS SEA
Total/NA	Prep	200.8			358756	06/09/21 15:50	TMH	FGS SEA
Total/NA	Analysis	200.8		1	358955	06/10/21 14:09	FCW	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Eurofins FGS, Seattle

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-103689-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-21

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-103689-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-103689-1	HCC EFF-060821	Water	06/08/21 11:35	06/09/21 11:07	
580-103689-2	Before GAC-060821	Water	06/08/21 11:45	06/09/21 11:07	

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TestAmerica Seattle

Custody Seals Intact:

Relinquished by:

Relinguished by:

Relinquished by:

No

Custody Seal No .:

Frallon

Company:

Company:

Company:

Chain of Custody Record

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5755 8th Street East THE LEADER IN ENVIRONMENTAL TESTING Tacoma, WA 98424-1317 phone 253.922.2310 fax 253.922.5047 Regulatory Program: DW ✓ NPDES RCRA Other: TestAmerica Laboratories, Inc. **Client Contact** Project Manager: Pete Kingston Site Contact: Matt Bowser COC No: Date: Farallong Consulting Tel/Fax: 425-394-4146 ab Contact: Kristine Allen Carrier: of 2 COCs 975 5th Avenue Northwest **Analysis Turnaround Time** Sampler: Issaquah, Washington CALENDAR DAYS WORKING DAYS For Lab Use Only: (425) 295-0800 Phone TAT if different from Below Walk-in Client: NWTPH-Dx w/o silica gel (425) 295-0850 FAX 2 weeks Lab Sampling: Project Name: Skykomish HCC System 1 week 2 days Job / SDG No.: WO # TT0100-S03 1 day Sample Type Sample Sample (C≠Comp. Sample Identification Date Time Matrix G=Grab) Cont. Sample Specific Notes: Before GAC- 06082 1 6/3/21 1135 Grab W ***See instructions below 6/3/21 HCC EFF- 060821 1145 Grab W 3 **See instructions below Therm. ID: IRS Cor: 1,8 . Unc: 3.3 . Cooler Dsc: LCA 151 Packing: Bub Cust. Seal: Yes No X Blue Ice Wet Dry, None Other Preservation Used: 1= ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. ✓ Non-Hazard Elammable Skin Imitant Poison B Unknown Return to Client Disposal by Lab Special Instructions/QC Requirements & Comments: 1) DxRx requires special limits 0.208 mg/L, cumulative, Final Volume of 2 mL required 2) No silica get cleanup needed for Dx

Company:

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Therm ID No.:

Date/Time: 6/8/210

Date/Time

Corr'd:

Company:

Received by

Received by:

Received in Laboratory by

Date/Time: 1370

Date/Time:

Date/Time:

Cooler Temp. (°C): Obs'd:

Client: Farallon Consulting LLC

Job Number: 580-103689-1

Login Number: 103689 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Blankinship, Tom X

oroator: Blankinoinp, rom x		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-103825-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 6/16/2021 4:49:26 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

Review your project results through

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Laboratory Job ID: 580-103825-1

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Case Narrative

Client: Farallon Consulting LLC
Project/Site: Skykomish HCC System

Job ID: 580-103825-1

Job ID: 580-103825-1

Laboratory: Eurofins FGS, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC Project: Skykomish HCC System Report Number: 580-103825-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 06/15/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.8 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-61521-1 (580-103825-1) and HCC EFF-61521-1 (580-103825-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 06/15/2021 and analyzed on 06/16/2021.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-103825-1

Project/Site: Skykomish HCC System

Glossary

MCL

MDA

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

MDC Minimum Detectable Concentration (Radiochemistry)
MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Activity (Radiochemistry)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

6/16/2021

Client: Farallon Consulting LLC

Job ID: 580-103825-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-61521-1 Lab Sample ID: 580-103825-1

Date Collected: 06/15/21 06:30 Matrix: Water

Date Received: 06/15/21 11:30

Method: NWTPH-Dx - No	orthwest - Semi-Volatil	le Petroleum Prod	ucts (GC)			
Analyte	Result Quali	ifier RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.30	0.062	mg/L	06/15/21 14:20	06/16/21 14:25	1
Motor Oil (>C24-C36)	0.22	0.091	mg/L	06/15/21 14:20	06/16/21 14:25	1
Surrogate	%Recovery Quali	lifier Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	72	50 - 150		06/15/21 14:20	06/16/21 14:25	1

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Client: Farallon Consulting LLC Job ID: 580-103825-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-61521-1

Date Collected: 06/15/21 06:30
Date Received: 06/15/21 11:30

Lab Sample ID: 580-103825-2

Matrix: Water

Method: NWTPH-Dx - No	orthwest - Semi-Vo	olatile Pet	roleum Prodi	ucts (GC	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		06/15/21 14:20	06/16/21 14:45	1
Motor Oil (>C24-C36)	ND		0.091		mg/L		06/15/21 14:20	06/16/21 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	76		50 - 150				06/15/21 14:20	06/16/21 14:45	1

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QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-103825-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-359319/1-A

Lab Sample ID: LCS 580-359319/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 359414

Analysis Batch: 359414

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 359319

MB MB Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 06/15/21 14:20 06/16/21 13:26 #2 Diesel (C10-C24) ND 0.065 mg/L Motor Oil (>C24-C36) ND 0.096 mg/L 06/15/21 14:20 06/16/21 13:26

MB MB

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac o-Terphenyl 75 50 - 150 06/15/21 14:20 06/16/21 13:26

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 359319

%Rec.

LCS LCS Spike Added Result Qualifier Limits **Analyte** Unit D %Rec 0.500 50 - 120 #2 Diesel (C10-C24) 0.404 mg/L 81 Motor Oil (>C24-C36) 0.500 0.430 86 64 - 120 mg/L

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 86 50 - 150

Lab Sample ID: LCSD 580-359319/3-A

Matrix: Water

Analysis Batch: 359414

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 359319

LCSD LCSD Spike %Rec. **RPD** Result Qualifier Limits RPD Analyte Added Unit %Rec Limit #2 Diesel (C10-C24) 0.500 0.435 87 50 - 120 26 mg/L Motor Oil (>C24-C36) 0.500 0.476 95 64 - 120 mg/L 10 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl 94

6/16/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-103825-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-61521-1

Lab Sample ID: 580-103825-1 Date Collected: 06/15/21 06:30

Matrix: Water

Date Received: 06/15/21 11:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			359319	06/15/21 14:20	N1B	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	359414	06/16/21 14:25	ADB	FGS SEA

Client Sample ID: HCC EFF-61521-1 Lab Sample ID: 580-103825-2

Date Collected: 06/15/21 06:30 **Matrix: Water**

Date Received: 06/15/21 11:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			359319	06/15/21 14:20	N1B	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	359414	06/16/21 14:45	ADB	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-103825-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-21

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-103825-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-103825-1	Before GAC-61521-1	Water	06/15/21 06:30	06/15/21 11:30	
580-103825-2	HCC EFF-61521-1	Water	06/15/21 06:30	06/15/21 11:30	

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TestAmerica Seattle

Chain of Custody Record

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5755 8th Street East

Tacoma, WA 98424-1317 phone 253.922.2310 fax 253.922.5047	Regu	ilatory Pre	ogram.	DW	NPDES		RCR	,	Other:				1	38	25				MENTAL TESTIN
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Login Sample Receipt Checklist

Client: Farallon Consulting LLC Job Number: 580-103825-1

Login Number: 103825 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Blankinship, Tom X

Greator. Dialikinship, Tolli A		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-103992-1

Client Project/Site: BNSF Skykomish Rush NPDES

Sampling Event: Skykomish - GAC/HCC

For:

eurofins

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 6/25/2021 4:34:29 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES Laboratory Job ID: 580-103992-1

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Case Narrative

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-103992-1

Laboratory: Eurofins FGS, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC
Project: BNSF Skykomish Rush NPDES
Report Number: 580-103992-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 06/22/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.8 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-62221 (580-103992-1) and HCC EFF-62221 (580-103992-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared and analyzed on 06/23/2021.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-360064, so a LCS and LCSD were used instead.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Job ID: 580-103992-1

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-103992-1

Project/Site: BNSF Skykomish Rush NPDES

Glossary

MDC

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Concentration (Radiochemistry)

Negative / Absent NEG POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Client: Farallon Consulting LLC Job ID: 580-103992-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-62221 Lab Sample ID: 580-103992-1

Date Collected: 06/22/21 08:45 East Sample 13: 666 166622 1

Date Received: 06/22/21 11:18

Method: NWTPH-Dx - No	orthwest - Semi-Volatile	Petroleum Prod	ucts (GC)			
Analyte	Result Qualifie	r RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.31	0.062	mg/L	06/23/21 13:04	06/23/21 20:37	1
Motor Oil (>C24-C36)	0.23	0.091	mg/L	06/23/21 13:04	06/23/21 20:37	1
Surrogate	%Recovery Qualifie	r Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	69	50 - 150		06/23/21 13:04	06/23/21 20:37	1

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Client: Farallon Consulting LLC

Job ID: 580-103992-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: HCC EFF-62221 Lab Sample ID: 580-103992-2

Date Collected: 06/22/21 08:45

Date Received: 06/22/21 11:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		06/23/21 13:04	06/23/21 20:57	1
Motor Oil (>C24-C36)	ND		0.092		mg/L		06/23/21 13:04	06/23/21 20:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	67		50 - 150				06/23/21 13:04	06/23/21 20:57	1

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QC Sample Results

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-103992-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-360064/1-A

Lab Sample ID: LCS 580-360064/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 360122

Analysis Batch: 360122

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 360064

	MB MB						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.065	mg/L		06/23/21 13:04	06/23/21 19:37	1
Motor Oil (>C24-C36)	ND	0.096	mg/L		06/23/21 13:04	06/23/21 19:37	1

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 68 50 - 150 06/23/21 13:04 06/23/21 19:37

LCSD LCSD

0.329

0.334

Result Qualifier

Unit

mg/L

mg/L

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 360064

%Rec.

LCS LCS Spike Added Result Qualifier Limits **Analyte** Unit D %Rec 0.500 50 - 120 #2 Diesel (C10-C24) 0.347 mg/L 69 Motor Oil (>C24-C36) 0.500 0.361 mg/L 72 64 - 120

Spike

Added

0.500

0.500

LCS LCS Surrogate %Recovery Qualifier Limits o-Terphenyl 77 50 - 150

Lab Sample ID: LCSD 580-360064/3-A

Matrix: Water

#2 Diesel (C10-C24)

Motor Oil (>C24-C36)

Analyte

Analysis Batch: 360122

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

67

Prep Batch: 360064

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RPD %Rec. Limits RPD %Rec Limit 66 50 - 120 5 26

64 - 120

LCSD LCSD Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl 70

Eurofins FGS, Seattle

Lab Chronicle

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-62221 Lab Sample ID: 580-103992-1

Date Collected: 06/22/21 08:45

Matrix: Water

Date Received: 06/22/21 11:18

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			360064	06/23/21 13:04	PMS	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	360122	06/23/21 20:37	TL1	FGS SEA

Client Sample ID: HCC EFF-62221 Lab Sample ID: 580-103992-2

Date Collected: 06/22/21 08:45 Matrix: Water

Date Received: 06/22/21 11:18

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			360064	06/23/21 13:04	PMS	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	360122	06/23/21 20:57	TL1	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Job ID: 580-103992-1

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Eurofins FGS, Seattle

Accreditation/Certification Summary

Client: Farallon Consulting LLC

Job ID: 580-103992-1 Project/Site: BNSF Skykomish Rush NPDES

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-21

Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-103992-1	Before GAC-62221	Water	06/22/21 08:45	06/22/21 11:18	
580-103992-2	HCC EFF-62221	Water	06/22/21 08:45	06/22/21 11:18	

Job ID: 580-103992-1

TestAmerica Seattle

Chain of Custody Record

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5755 8th Street East

THE LEADER IN ENVIRONMENTAL TESTING Tacoma, WA 98424-1317 phone 253.922.2310 fax 253.922.5047 Regulatory Program: __Dw __NPDES RCRA Other: TestAmerica Laboratories, Inc. **Client Contact** Project Manager: Pete Kingston COC No: Date: 6 - スマー スト Site Contact: Matt Bowser Farallong Consulting Tel/Fax: 425-394-4146 Lab Contact: Kristine Allen Carrier: of A COCs 975 5th Avenue Northwest **Analysis Turnaround Time** NWTPH-Dx w/o silica gel cleanup Sampler: WORKING DAYS Issaquah, Washington CALENDAR DAYS For Lab Use Only: (425) 295-0800 Phone TAT if different from Below 32000 Walk-in Client: (425) 295-0850 FAX 2 weeks Lab Sampling: Project Name: Skykomish HCC System 1 week 2 days Job / SDG No.: WO # TT0100-S03 1 day Sample Type Sample Sample (C=Comp. Sample Identification Date Time Matrix G¤Grab) Cont. Sample Specific Notes: Before GAC- 62221 Grab W **See instructions below HCC EFF- 62221 W Grab **See instructions below Therm. ID: 10% Cor: 4, 8 ° Unc: 5, 3 ° _ Cooler Dsc: Les FedEx: ______ Blue Ice Wet, Dry, None Preservation Used: 1= lce, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. Non-Hazard Skin Irritant Poison B Unknown Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client Disposal by Lab Archive for Special Instructions/QC Requirements & Comments: 1) DxRx requires special limits 0.208 mg/L, cumulative, Final Volume of 2 mL required 2) No silica get cleanup needed for Dx Return to Client Custody Seals Intact: Yes No Custody Seal No.: Cooler Temp. (°C); Obs'd: Corr'd: Therm ID No.: Relinquished by: Company: Received by: Company: dacie Relinquished by: Company: Date/Time: Received by: Company: Date/Time: Relinquished by:

Date/Time:

Page 11 of 12

Company:

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Company:

Received in Laboratory by:

Login Sample Receipt Checklist

Client: Farallon Consulting LLC Job Number: 580-103992-1

Login Number: 103992 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Vallelunga, Diana L

Creator. Valleturiga, Diaria L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-104179-1

Client Project/Site: BNSF Former Maintenance and Fueling

Facility

Sampling Event: Skykomish HCC System

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Peter Kingston

Authorized for release by: 7/19/2021 11:58:05 AM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Farallon Consulting LLC Job ID: 580-104179-1

Project/Site: BNSF Former Maintenance and Fueling Facility

Job ID: 580-104179-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-104179-1

Comments

No additional comments.

Receipt

The samples were received on 7/1/2021 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.4° C, 5.9° C and 8.0° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: 2A-W-40-063021 (580-104179-10), GW-1-063021 (580-104179-11), GW-2-063021 (580-104179-12) and MW-555-063021 (580-104179-13).

C Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 580-361452. A laboratory control sample/laboratory control sample duplicate (LCS/LCSD) were used instead.

Method 3510C: The following sample formed emulsions during the extraction procedure: 1B-W-23-062921 (580-104179-5). The emulsions were broken up using additional sodium sulfate filtration and methylene chloride rinsing.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-361551. A laboratory control sample/laboratory control sample duplicate (LCS/LCSD) were used instead.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-104179-1

Project/Site: BNSF Former Maintenance and Fueling Facility

Minimum Detectable Concentration (Radiochemistry)

Not Detected at the reporting limit (or MDL or EDL if shown)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number Method Quantitation Limit

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Glossary

MDC

MDL

MPN

MQL NC

ND

NEG POS

PQL

PRES

QC

RER RL

RPD TEF

TEQ

TNTC

ML

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Oil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
_OD	Limit of Detection (DoD/DOE)
_OQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)

7/19/2021

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Client: Farallon Consulting LLC Job ID: 580-104179-1

Project/Site: BNSF Former Maintenance and Fueling Facility

Client Sample ID: 5-W-43-062921

Date Received: 07/01/21 10:05

Date Collected: 06/29/21 13:10

Lab Sample ID: 580-104179-1

Matrix: Water

Method: NWTPH-Dx - No	orthwest - Semi-Volatile Pet	troleum Prod	ucts (GC	C)				
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.062	0.062	mg/L		07/09/21 12:16	07/09/21 22:11	1
Motor Oil (>C24-C36)	ND	0.091	0.091	mg/L		07/09/21 12:16	07/09/21 22:11	1
Surrogate	%Recovery Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	76	50 - 150				07/09/21 12:16	07/09/21 22:11	1

Client: Farallon Consulting LLC Job ID: 580-104179-1

Project/Site: BNSF Former Maintenance and Fueling Facility

Client Sample ID: GW-3-062921

Lab Sample ID: 580-104179-2 Date Collected: 06/29/21 13:15

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		07/09/21 12:16	07/14/21 22:25	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		07/09/21 12:16	07/14/21 22:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	71		50 - 150				07/09/21 12:16	07/14/21 22:25	1

Client: Farallon Consulting LLC Job ID: 580-104179-1

Project/Site: BNSF Former Maintenance and Fueling Facility

Client Sample ID: GW-30-062921

Lab Sample ID: 580-104179-3 Date Collected: 06/29/21 13:15

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		07/09/21 12:16	07/09/21 22:51	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		07/09/21 12:16	07/09/21 22:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	68		50 - 150				07/09/21 12:16	07/09/21 22:51	1

Client: Farallon Consulting LLC Job ID: 580-104179-1

Project/Site: BNSF Former Maintenance and Fueling Facility

Client Sample ID: EW-1-062921

Lab Sample ID: 580-104179-4 Date Collected: 06/29/21 14:10

Matrix: Water

Analyte		Qualifier	roleum Prod RL	MDL	•	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		07/09/21 12:16	07/09/21 23:11	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		07/09/21 12:16	07/09/21 23:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	72		50 - 150				07/09/21 12:16	07/09/21 23:11	1

Client: Farallon Consulting LLC Job ID: 580-104179-1

Project/Site: BNSF Former Maintenance and Fueling Facility

Client Sample ID: 1B-W-23-062921

Lab Sample ID: 580-104179-5 Date Collected: 06/29/21 14:20

Matrix: Water

Method: NWTPH-Dx - No	orthwest - Semi-Vo	olatile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		07/09/21 12:16	07/09/21 23:32	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		07/09/21 12:16	07/09/21 23:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	68		50 - 150				07/09/21 12:16	07/09/21 23:32	1

Client: Farallon Consulting LLC Job ID: 580-104179-1

Project/Site: BNSF Former Maintenance and Fueling Facility

Client Sample ID: EW-2A-063021

Lab Sample ID: 580-104179-6 Date Collected: 06/30/21 08:20

Matrix: Water

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		07/09/21 12:16	07/09/21 23:52	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		07/09/21 12:16	07/09/21 23:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	71		50 - 150				07/09/21 12:16	07/09/21 23:52	1

Client: Farallon Consulting LLC Job ID: 580-104179-1

Project/Site: BNSF Former Maintenance and Fueling Facility

Client Sample ID: GW-4-063021

Lab Sample ID: 580-104179-7 Date Collected: 06/30/21 09:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		07/09/21 12:16	07/10/21 00:12	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		07/09/21 12:16	07/10/21 00:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	64		50 - 150				07/09/21 12:16	07/10/21 00:12	1

Client: Farallon Consulting LLC Job ID: 580-104179-1

Project/Site: BNSF Former Maintenance and Fueling Facility

Client Sample ID: 2A-W-42-063021

Date Collected: 06/30/21 09:50

Date Received: 07/01/21 10:05

Method: NWTPH-Dx - No	rthwest - Semi-V	olatile Pet	roleum Prod	ucts (G	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.11		0.062	0.062	mg/L		07/09/21 12:16	07/10/21 00:52	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		07/09/21 12:16	07/10/21 00:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	72		50 - 150				07/09/21 12:16	07/10/21 00:52	1

Lab Sample ID: 580-104179-8

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Matrix: Water

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Client: Farallon Consulting LLC Job ID: 580-104179-1

Project/Site: BNSF Former Maintenance and Fueling Facility

Client Sample ID: 2A-W-41-063021

Lab Sample ID: 580-104179-9 Date Collected: 06/30/21 10:35

Matrix: Water

Date Received: 07/01/21 10:05

Method: NWTPH-Dx - Se	emi-Volatile Petrole	um Prod	ucts by NW1	ΓPH with	Silica G	Sel Cle	anup		
Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.063	0.063	mg/L		07/10/21 16:02	07/11/21 00:59	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		07/10/21 16:02	07/11/21 00:59	1
Surrogate	%Recovery Q	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150				07/10/21 16:02	07/11/21 00:59	1

Client: Farallon Consulting LLC Job ID: 580-104179-1

Project/Site: BNSF Former Maintenance and Fueling Facility

Client Sample ID: 2A-W-40-063021

Lab Sample ID: 580-104179-10 Date Collected: 06/30/21 11:40

Matrix: Water

Date Received: 07/01/21 10:05

Method: NWTPH-Dx - No	orthwest - Semi-Vol	atile Peti	oleum Prod	ucts (GC	c)				
Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.062	0.062	mg/L		07/10/21 16:02	07/11/21 03:57	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		07/10/21 16:02	07/11/21 03:57	1
Surrogate	%Recovery Q	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150				07/10/21 16:02	07/11/21 03:57	1

Client: Farallon Consulting LLC Job ID: 580-104179-1

Project/Site: BNSF Former Maintenance and Fueling Facility

Client Sample ID: GW-1-063021

Lab Sample ID: 580-104179-11 Date Collected: 06/30/21 13:50

Matrix: Water

Date Received: 07/01/21 10:05

Method: NWTPH-Dx - No	orthwest - Semi-Vo	latile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.063	0.063	mg/L		07/10/21 16:02	07/11/21 04:17	1
Motor Oil (>C24-C36)	ND		0.093	0.093	mg/L		07/10/21 16:02	07/11/21 04:17	1
Surrogate	%Recovery (Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	79		50 - 150				07/10/21 16:02	07/11/21 04:17	1

Client: Farallon Consulting LLC Job ID: 580-104179-1

Project/Site: BNSF Former Maintenance and Fueling Facility

Client Sample ID: GW-2-063021

Lab Sample ID: 580-104179-12 Date Collected: 06/30/21 12:45

Matrix: Water

Date Received: 07/01/21 10:05

Method: NWTPH-Dx - No Analyte		Qualifier	RL	MDL	•	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		07/10/21 16:02	07/11/21 04:37	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		07/10/21 16:02	07/11/21 04:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	74		50 - 150				07/10/21 16:02	07/11/21 04:37	1

7/19/2021

Client: Farallon Consulting LLC Job ID: 580-104179-1

Project/Site: BNSF Former Maintenance and Fueling Facility

Client Sample ID: MW-555-063021

Lab Sample ID: 580-104179-13 Date Collected: 06/30/21 14:15

Matrix: Water

Date Received: 07/01/21 10:05

Method: NWTPH-Dx - No	Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)											
Analyte	Result Qualifie	er RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac				
#2 Diesel (C10-C24)	0.070	0.063	0.063	mg/L		07/10/21 16:02	07/11/21 04:56	1				
Motor Oil (>C24-C36)	ND	0.093	0.093	mg/L		07/10/21 16:02	07/11/21 04:56	1				
Surrogate	%Recovery Qualifie	er Limits				Prepared	Analyzed	Dil Fac				
o-Terphenyl	75	50 - 150				07/10/21 16:02	07/11/21 04:56	1				

Eurofins FGS, Seattle

Client: Farallon Consulting LLC Job ID: 580-104179-1

Project/Site: BNSF Former Maintenance and Fueling Facility

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-361452/1-A

Lab Sample ID: LCS 580-361452/2-A

Matrix: Water

Analysis Batch: 361513

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 361452

MB MB Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Analyte #2 Diesel (C10-C24) ND 0.065 0.065 mg/L 07/09/21 12:16 07/09/21 21:11 Motor Oil (>C24-C36) ND 0.096 0.096 mg/L 07/09/21 12:16 07/09/21 21:11

MB MB

Surrogate %Recovery Qualifier I imite Prepared Analyzed Dil Fac o-Terphenyl 81 50 - 150 07/09/21 12:16 07/09/21 21:11

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 361452

%Rec.

Spike LCS LCS Added Limits **Analyte** Result Qualifier Unit D %Rec 0.500 0.399 50 - 120 #2 Diesel (C10-C24) mg/L 80 Motor Oil (>C24-C36) 0.500 0.445 89 64 - 120 mg/L

LCS LCS

%Recovery Qualifier Limits Surrogate o-Terphenyl 50 - 150 83

Lab Sample ID: LCSD 580-361452/3-A

Matrix: Water

Matrix: Water

Analysis Batch: 361513

Analysis Batch: 361513

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 361452

Spike LCSD LCSD %Rec. **RPD** Result Qualifier Limits **RPD** Analyte Added Unit D %Rec Limit #2 Diesel (C10-C24) 0.500 0.388 78 50 - 120 mg/L 26 Motor Oil (>C24-C36) 0.500 0.419 84 64 - 120 mg/L 6 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 50 - 150

Lab Sample ID: MB 580-361551/1-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 361556

Prep Type: Total/NA

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac #2 Diesel (C10-C24) ND 0.065 0.065 mg/L 07/10/21 16:02 07/11/21 01:19 Motor Oil (>C24-C36) ND 0.096 0.096 mg/L 07/10/21 16:02 07/11/21 01:19

MB MB

MB MB

Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed o-Terphenyl 74 50 - 150 07/10/21 16:02 07/11/21 01:19

Lab Sample ID: LCS 580-361551/2-A

Matrix: Water

Analysis Batch: 361556

Client Sample ID: Lab Control Sample

LCS LCS Spike %Rec. %Rec Added Result Qualifier Unit Limits Analyte D #2 Diesel (C10-C24) 0.500 0.423 mg/L 85 50 - 120 Motor Oil (>C24-C36) 0.500 0.506 mg/L 101

Eurofins FGS, Seattle

Prep Batch: 361551

Client: Farallon Consulting LLC

Project/Site: BNSF Former Maintenance and Fueling Facility

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 580-361551/2-A

Lab Sample ID: LCSD 580-361551/3-A

Matrix: Water

Matrix: Water

Analysis Batch: 361556

Analysis Batch: 361556

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 361551

LCS LCS

%Recovery Qualifier Limits Surrogate o-Terphenyl 50 - 150

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 361551

%Rec. **RPD**

Spike LCSD LCSD RPD Added Result Qualifier Limits Limit Analyte Unit D %Rec #2 Diesel (C10-C24) 2 0.500 0.416 mg/L 83 50 - 120 26 Motor Oil (>C24-C36) 0.500 0.492 mg/L 98 64 - 120 3 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 92 50 - 150

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Lab Sample ID: MB 580-361452/1-B

Matrix: Water

Analysis Batch: 361977

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 361452

MB MB

Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed #2 Diesel (C10-C24) ND 0.065 0.065 mg/L 07/09/21 12:16 07/14/21 21:25 Motor Oil (>C24-C36) ND 0.096 0.096 mg/L 07/09/21 12:16 07/14/21 21:25

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac o-Terphenyl 86 50 - 150 07/09/21 12:16 07/14/21 21:25

Lab Sample ID: LCS 580-361452/2-B

Matrix: Water

Analysis Batch: 361977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 361452

Spike LCS LCS %Rec. Added Result Qualifier Unit D %Rec Limits

Analyte #2 Diesel (C10-C24) 0.500 0.411 82 50 - 120 mg/L Motor Oil (>C24-C36) 0.500 0.465 93 mg/L 64 - 120

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 50 - 150

Lab Sample ID: LCSD 580-361452/3-B Client Sample ID: Lab Control Sample Dup

Matrix: Water

Analysis Batch: 361977

Prep Type: Total/NA

Prep Batch: 361452

Spike LCSD LCSD %Rec. RPD Added Result Qualifier %Rec Limits RPD Limit Analyte Unit #2 Diesel (C10-C24) 0.500 0.407 81 50 - 120 26 mg/L 1 0.500 Motor Oil (>C24-C36) 0.451 mg/L 90 64 - 120 3 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 78 50 - 150

Eurofins FGS, Seattle

QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-104179-1

Project/Site: BNSF Former Maintenance and Fueling Facility

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup (Continued)

Lab Sample ID: MB 580-361551/1-B
Matrix: Water

Analysis Batch: 361556

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 361551

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	0.065	mg/L		07/10/21 16:02	07/11/21 00:00	1
Motor Oil (>C24-C36)	ND		0.096	0.096	mg/L		07/10/21 16:02	07/11/21 00:00	1
	MB	MB							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 07/10/21 16:02 07/11/21 00:00 o-Terphenyl 75 50 - 150

Lab Sample ID: LCS 580-361551/2-B

Matrix: Water

Analysis Batch: 361556

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 361551

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits #2 Diesel (C10-C24) 0.500 0.420 mg/L 84 50 - 120 Motor Oil (>C24-C36) 0.500 0.523 mg/L 105 64 - 120

LCS LCS

%Recovery Qualifier Surrogate Limits o-Terphenyl 50 - 150 94

Lab Sample ID: LCSD 580-361551/3-B

Matrix: Water

Analysis Batch: 361556

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 361551**

LCSD LCSD Spike %Rec. **RPD** Limit Analyte Added Result Qualifier Unit D %Rec Limits RPD 0.500 26 #2 Diesel (C10-C24) 0.432 mg/L 86 50 - 120 3 Motor Oil (>C24-C36) 0.500 0.537 mg/L 107 64 - 120 3 24

LCSD LCSD %Recovery Qualifier Limits Surrogate 50 - 150 o-Terphenyl 94

Eurofins FGS, Seattle

Client: Farallon Consulting LLC

Project/Site: BNSF Former Maintenance and Fueling Facility

Client Sample ID: 5-W-43-062921

Date Collected: 06/29/21 13:10 Date Received: 07/01/21 10:05 Lab Sample ID: 580-104179-1

Matrix: Water

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	3510C			361452	07/09/21 12:16	JHR	FGS SEA
l	Total/NA	Analysis	NWTPH-Dx		1	361513	07/09/21 22:11	T1W	FGS SEA

Client Sample ID: GW-3-062921

Date Collected: 06/29/21 13:15 Date Received: 07/01/21 10:05 Lab Sample ID: 580-104179-2

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			361452	07/09/21 12:16	JHR	FGS SEA
Total/NA	Cleanup	3630C			361959	07/14/21 16:28	RBL	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	361977	07/14/21 22:25	TL1	FGS SEA

Client Sample ID: GW-30-062921

Date Collected: 06/29/21 13:15 Date Received: 07/01/21 10:05 Lab Sample ID: 580-104179-3

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			361452	07/09/21 12:16	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	361513	07/09/21 22:51	T1W	FGS SEA

Client Sample ID: EW-1-062921

Date Collected: 06/29/21 14:10

Date Received: 07/01/21 10:05

Lab Sample ID: 580-104179-4

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			361452	07/09/21 12:16	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	361513	07/09/21 23:11	T1W	FGS SEA

Client Sample ID: 1B-W-23-062921

Date Collected: 06/29/21 14:20 Date Received: 07/01/21 10:05

Lab Sample ID: 580-104179-5

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			361452	07/09/21 12:16	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	361513	07/09/21 23:32	T1W	FGS SEA

Client Sample ID: EW-2A-063021

Date Collected: 06/30/21 08:20

Date Received: 07/01/21 10:05

Lab Sample ID: 580-104179-6

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			361452	07/09/21 12:16	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	361513	07/09/21 23:52	T1W	FGS SEA

Client: Farallon Consulting LLC

Project/Site: BNSF Former Maintenance and Fueling Facility

Client Sample ID: GW-4-063021

Date Collected: 06/30/21 09:00

Lab Sample ID: 580-104179-7

Matrix: Water

Job ID: 580-104179-1

Date Received: 07/01/21 10:05

ı		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	3510C			361452	07/09/21 12:16	JHR	FGS SEA
	Total/NA	Analysis	NWTPH-Dx		1	361513	07/10/21 00:12	T1W	FGS SEA

Client Sample ID: 2A-W-42-063021

Date Collected: 06/30/21 09:50 Date Received: 07/01/21 10:05

Lab Sample ID: 580-104179-8

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			361452	07/09/21 12:16	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	361513	07/10/21 00:52	T1W	FGS SEA

Client Sample ID: 2A-W-41-063021

Date Collected: 06/30/21 10:35 Date Received: 07/01/21 10:05

Lab Sample ID: 580-104179-9

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			361551	07/10/21 16:02	JBT	FGS SEA
Total/NA	Cleanup	3630C			361554	07/10/21 20:07	JBT	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	361556	07/11/21 00:59	T1W	FGS SEA

Client Sample ID: 2A-W-40-063021

Date Collected: 06/30/21 11:40

Date Received: 07/01/21 10:05

Lab Sample ID: 580-104179-10

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			361551	07/10/21 16:02	JBT	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	361556	07/11/21 03:57	T1W	FGS SEA

Client Sample ID: GW-1-063021

Date Collected: 06/30/21 13:50 Date Received: 07/01/21 10:05

Lab Sample ID: 580-104179-11

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			361551	07/10/21 16:02	JBT	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	361556	07/11/21 04:17	T1W	FGS SEA

Client Sample ID: GW-2-063021

Date Collected: 06/30/21 12:45 Date Received: 07/01/21 10:05

Lab Sample ID: 580-104179-12

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			361551	07/10/21 16:02	JBT	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	361556	07/11/21 04:37	T1W	FGS SEA

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-104179-1

Project/Site: BNSF Former Maintenance and Fueling Facility

Client Sample ID: MW-555-063021

Lab Sample ID: 580-104179-13 Date Collected: 06/30/21 14:15 **Matrix: Water**

Date Received: 07/01/21 10:05

l		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	3510C			361551	07/10/21 16:02	JBT	FGS SEA
	Total/NA	Analysis	NWTPH-Dx		1	361556	07/11/21 04:56	T1W	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-104179-1

Project/Site: BNSF Former Maintenance and Fueling Facility

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-21 *

2

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 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Former Maintenance and Fueling Facility

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-104179-1	5-W-43-062921	Water	06/29/21 13:10	07/01/21 10:05
580-104179-2	GW-3-062921	Water	06/29/21 13:15	07/01/21 10:05
580-104179-3	GW-30-062921	Water	06/29/21 13:15	07/01/21 10:05
580-104179-4	EW-1-062921	Water	06/29/21 14:10	07/01/21 10:05
80-104179-5	1B-W-23-062921	Water	06/29/21 14:20	07/01/21 10:05
80-104179-6	EW-2A-063021	Water	06/30/21 08:20	07/01/21 10:05
80-104179-7	GW-4-063021	Water	06/30/21 09:00	07/01/21 10:05
80-104179-8	2A-W-42-063021	Water	06/30/21 09:50	07/01/21 10:05
80-104179-9	2A-W-41-063021	Water	06/30/21 10:35	07/01/21 10:05
80-104179-10	2A-W-40-063021	Water	06/30/21 11:40	07/01/21 10:05
80-104179-11	GW-1-063021	Water	06/30/21 13:50	07/01/21 10:05
580-104179-12	GW-2-063021	Water	06/30/21 12:45	07/01/21 10:05
580-104179-13	MW-555-063021	Water	06/30/21 14:15	07/01/21 10:05

Job ID: 580-104179-1

7/19/2021

Chain of Custody Record

Eurofins FGS, Seattle

5755 8th Street East Tacoma, WA 98424

Environment Testing America

🕏 eurofins |

P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate dmuray Silica Carl Champ Company [75.5 Special Instructions/Note: Therm. ID: 189 Coy. 8.0 . Unc. 8.0 . - other (specify) Ver- 01/16/2010 104/10 W - pH 4-5 Months ned longer than 1 month) Lab Cour; Stica Gret FedEx: Other: A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid Page: Page 1 of 1 5 I · Ice J · DI Water K · EDTA L · EDA Archive For Blue Ice(We), Dry, None Cust. Seal: Yes No exemistros to tedinio 5.9 cm; 5.9 Lab Cour: Cooler Dsc:_ Lab Cour: X ° Unc: Jate/Time. Packing:__ arrier Tracking No(s). ethod of Shipmen FedEx: Other: antugniot of faction con State of Origin FedEx: Disposal By Lab Other: 580-104179 Chain of Custody **Analysis Requested** Blue Ice, (Wet) Dry, None Sample Setum To Client Dispo coter Temperature(s) °C and Other Remarks: Therm, ID: JRG Cor: Special Instructions/QC Requirements: Therm. ID: JRG Cor. × 550 Labers Cust. Seal: Yes Cust. Seal: Yes Cooler Dsc:_ Cooler Dsc:_ Packing:_ Packing: eceived by: eceived by: sceived an $\overline{\times}$ 97WN ×ZZ ×22 -|× | | フ × 2 × 2 2 × 22 ×2 <u>2</u> 2 z Company Company Matrix 3 3 3 3 3 3 3 3 3 3 3 company 1000 (ach) Type (C=comp, G=grab) Radiological Sample STATE 5 Purchase Order not required Standard 18 3C OKH! 95% 3 1315 1035 Sample 1315 017 2000 ompliance Project: X Yes Project # 1083 - 071 ごがり 0H1 Em. Date: (X) Unknown Jue Date Requested: 15/6/2/1 Sample Date 18/30/21 Date/Time Jate/Time: Poison B 3 Boleci Names Maintenance and Fuzing Issagnar, tot about CENSUPINO Skin Irritant Non-Hazard Flammable Skin Irrite
Deliverable Requested: I. III, IV. Other (specify) Hent Contact: Amanda Me Hontot 0000 (hocao-at-2 . xe 24-14-41-062021 Custody Seal No. 18-W-23-06291 5-W-43:062931 BY SATO elinquished by [AM! SMAHM 150590-64-M- 46 1505 JU- H- WB 169600 - 05- WA EW- 2A - OUSO 21 BNSF SKYKUMISH 180890 - B-MO 98027 GW-3-062931 EW-1-062921 Possible Hazard Identification 295 Farallon Empty Kit Relinquished by: Client Information sample Identification Custody Seals Intact:
A Yes A No 975 one: ムスク itale, Zip: quished by: finguished by

Page 26 of 28

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10

Chain of Custody Record

Eurofins FGS, Seattle

Tacoma, WA 98424 5755 8th Street East

N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2SSO3
S - H2SO4
I - TSP Dodecaltydrate STICS Special Instructions/Note Ver: 01/16/2019 U - Acetone V - MCAA Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon て

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つ Page TorT 2 Of Preservation Code 0.00 C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - fce J - DI Water K - EDTA L - EDA grantitines to solimital listo? Date/Time: dethod of Shipment Carrier Tracking No(s) State of Origin: **Analysis Requested** Cooler Temperature(s) °C and Other Remarks: S10005 Lab PW LOCK TOOM Received by: Received by: Received by MUNTOH-DX X Z Z X Z Z ×22 Matrix 3 3 ζ Company Radiological Type (C≕comp, G≕grab) Sample Sampler B. SM:X Q Phone: 425 200 813 80. 1×0-500 Compliance Project: X Yes A No TAT Requested (days): Standard 1830 Purchase Order not required 1245 415 3250 Sample Unknown Due Date Requested: 18/08/9 Sample Date Date/Time: Project #:)ate/Time SSOW#: Poison B BNSF FORMER MAF FACILITY D Skin Irritant Mendmet BYN AVE NOW Deliverable Requested: I, II, III, IV. Other (specify) 0000 Skykomish Custody Seal No. MW-565-06302 120600-R-NR 1×0×90 -1- ME A80A 15Sagnan, Flammable 200 Client Contact:
A MA hold a Empty Kit Relinquished by: Custody Seals Intact: Client Information Sample Identification Many: H [2 ∆ Yes ∆ No State, Zip: VR BNSF odes to 5 elinquished by: elinquished by: elinquished by

Login Sample Receipt Checklist

Client: Farallon Consulting LLC Job Number: 580-104179-1

Login Number: 104179 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Blankinship, Tom X

Creator. Dialikiliship, Tolli A		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Samples -10, -11, -12 & -13 received out of temp.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	Sample GW-2-063021 is listed twice.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-104267-1

Client Project/Site: BNSF Skykomish Rush NPDES

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 7/9/2021 10:52:51 AM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

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Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES Laboratory Job ID: 580-104267-1

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Case Narrative

Client: Farallon Consulting LLC

Job ID: 580-104267-1 Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-104267-1

Laboratory: Eurofins FGS, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC **Project: BNSF Skykomish Rush NPDES** Report Number: 580-104267-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 07/06/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 8.4 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC- 070221 (580-104267-1) and HCC EFF- 070221 (580-104267-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared and analyzed on 07/07/2021.

The following samples were received at the laboratory outside the required temperature criteria: Before GAC- 070221 (580-104267-1) and HCC EFF- 070221 (580-104267-2).

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-361152, so a LCS and LCSD were used instead.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICPMS)

Sample HCC EFF- 070221 (580-104267-2) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 07/07/2021.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-104267-1

Project/Site: BNSF Skykomish Rush NPDES

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Client: Farallon Consulting LLC

Job ID: 580-104267-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC- 070221 Lab Sample ID: 580-104267-1

Date Collected: 07/02/21 15:15 East Sample 15: 300-104207-1

Date Received: 07/02/21 15:15 Matrix: Water

Method: NWTPH-Dx - No	orthwest - Semi-Vola	atile Petrole	roleum Products (GC)						
Analyte	Result Qu	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.53		0.062		mg/L		07/07/21 09:08	07/07/21 15:36	1
Motor Oil (>C24-C36)	0.33		0.092		mg/L		07/07/21 09:08	07/07/21 15:36	1
Surrogate	%Recovery Qu	ualifier L	imits				Prepared	Analyzed	Dil Fac
o-Terphenyl	71	50	0 - 150				07/07/21 09:08	07/07/21 15:36	1

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Client: Farallon Consulting LLC Job ID: 580-104267-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: HCC EFF- 070221

Date Collected: 07/02/21 15:25 Date Received: 07/06/21 11:50 Lab Sample ID: 580-104267-2

Matrix: Water

Method: NWTPH-Dx - No	orthwest - Semi-Vol	latile Petı	roleum Prodi	ucts (G0	C)				
Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.062		mg/L		07/07/21 09:08	07/07/21 15:56	1
Motor Oil (>C24-C36)	ND		0.092		mg/L		07/07/21 09:08	07/07/21 15:56	1
Surrogate	%Recovery Q	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	65		50 - 150				07/07/21 09:08	07/07/21 15:56	1
Method: 200.8 - Metals (ICP/MS)								

Method: 200.8 - Metals (ICP/MS)									
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac		
Arsenic	ND	0.0010	mg/L		07/07/21 08:34	07/07/21 16:14	1		
Lead	ND	0.00040	mg/L		07/07/21 08:34	07/07/21 16:14	1		

7/9/2021

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Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-104267-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-361152/1-A

Matrix: Water

Analysis Batch: 361198

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 361152

	MB	MB						
Analyte	Result	Qualifier	RL	MDL Un	nit D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065	mg	g/L	07/07/21 09:08	07/07/21 14:35	1
Motor Oil (>C24-C36)	ND		0.096	mg	g/L	07/07/21 09:08	07/07/21 14:35	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	72		50 - 150			07/07/21 09:08	07/07/21 14:35	1

Lab Sample ID: LCS 580-361152/2-A

Matrix: Water

#2 Diesel (C10-C24)

Motor Oil (>C24-C36)

Analyte

Analysis Batch: 361198

LCS LCS Spike

0.400

0.438

Added

0.500

0.500

Result Qualifier Unit D %Rec

mg/L

mg/L

Prep Type: Total/NA **Prep Batch: 361152** %Rec.

Limits

Client Sample ID: Lab Control Sample

50 - 120

64 - 120

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 86 50 - 150

Lab Sample ID: LCSD 580-361152/3-A

Matrix: Water

Analysis Batch: 361198

Client Sample ID: Lab Control Sample Dup

80

88

Prep Type: Total/NA

Prep Batch: 361152

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	 0.500	0.380		mg/L		76	50 - 120	5	26
Motor Oil (>C24-C36)	0.500	0.419		mg/L		84	64 - 120	4	24

LCSD LCSD

MD MD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-361145/14-A

Matrix: Water

Analysis Batch: 361261

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 361145

Analyte	Result C	Qualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	0.0010	mg/L		07/07/21 08:34	07/07/21 16:11	1
Lead	ND	0.00040	mg/L		07/07/21 08:34	07/07/21 16:11	1

Lab Sample ID: LCS 580-361145/15-A

Matrix: Water

Analysis Batch: 361261

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 361145

	Spike	LCS	LCS			%Rec.
Analyte	Added	Result	Qualifier U	nit D	%Rec	Limits
Arsenic	1.00	0.991	m	g/L	99	85 - 115
Lead	1.00	0.981	m	g/L	98	85 - 115

Eurofins FGS, Seattle

7/9/2021

Client: Farallon Consulting LLC Job ID: 580-104267-1

Project/Site: BNSF Skykomish Rush NPDES

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-361145/16-A	Client Sample ID: Lab Control Sample Du

Matrix: Water

Analysis Batch: 361261

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Lead

Onche ou	IIIPIC	ID. Luk		Oumpi	, Dup	
			Prep Ty	pe: Tot	al/NA	
			Prep B	atch: 30	61145	
			%Rec.		RPD	
r Unit	D	%Rec	Limits	RPD	Limit	
			·	Prep Ty Prep Bo %Rec.	Prep Type: Tot Prep Batch: 36 %Rec.	

Spike LCSD LC Analyte Added Result Qu Arsenic 1.00 0.986 mg/L 99 85 - 115 20 Lead 1.00 0.983 mg/L 98 85 - 115 20

Lab Sample ID: 580-104267-2 MS Client Sample ID: HCC EFF- 070221 **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 361261 Prep Batch: 361145** Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Arsenic ND 1.00 1.02 mg/L 102 70 - 130 ND 1.00 1.01 mg/L 101 70 - 130 Lead

Lab Sample ID: 580-104267-2 MSD Client Sample ID: HCC EFF- 070221 **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 361261 Prep Batch: 361145** Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier Limits RPD Analyte Unit D %Rec Limit Arsenic ND 1.00 1.03 mg/L 103 70 - 130 20 Lead ND 1 00 1.01 mg/L 101 70 - 130 20

Lab Sample ID: 580-104267-2 DU Client Sample ID: HCC EFF- 070221 **Matrix: Water** Prep Type: Total/NA Analysis Batch: 361261 **Prep Batch: 361145** Sample Sample DU DU **RPD** RPD Analyte Result Qualifier Result Qualifier Unit D Limit ND NC Arsenic ND mg/L 20

ND

mg/L

ND

7/9/2021

NC

Lab Chronicle

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC- 070221

Lab Sample ID: 580-104267-1

Date Collected: 07/02/21 15:15 **Matrix: Water** Date Received: 07/06/21 11:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			361152	07/07/21 09:08	N1B	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	361198	07/07/21 15:36	T1W	FGS SEA

Lab Sample ID: 580-104267-2 Client Sample ID: HCC EFF- 070221

Date Collected: 07/02/21 15:25 **Matrix: Water**

Date Received: 07/06/21 11:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			361152	07/07/21 09:08	N1B	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	361198	07/07/21 15:56	T1W	FGS SEA
Total/NA	Prep	200.8			361145	07/07/21 08:34	C1K	FGS SEA
Total/NA	Analysis	200.8		1	361261	07/07/21 16:14	FCW	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Job ID: 580-104267-1

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7/9/2021

Accreditation/Certification Summary

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-21

Job ID: 580-104267-1

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Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-104267-1	Before GAC- 070221	Water	07/02/21 15:15	07/06/21 11:50	
580-104267-2	HCC FFF- 070221	Water	07/02/21 15:25	07/06/21 11:50	

Job ID: 580-104267-1

TestAmerica Seattle

Chain of Custody Record

Site Contact: Matt Bowser

Lab Contact: Kristine Allen

Dther:

Date:

Carrier:

RCRA

5755 8th Street East

Farallong Consulting

Tacoma, WA 98424-1317

phone 253.922.2310 fax 253.922.5047

Client Contact

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING TestAmerica Laboratories, Inc. COC No: of 2... COCs

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Issaquah, Washington		IDAR DAYS		RKING DAY	'S]	1 6	5															For Lab Use Only:		
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(425) 295-0850 FAX		2	weeks			2	۽ اج	8	`]									-				Lab Sampling:	<u> </u>	
Project Name: Skykomish HCC System		1	week			>	<u>` </u>	8			- 1		ı					ĺ			ŀ			L	
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Sample Identification	Sample Date	Sample Time	Type (C=Comp. G=Grab)	Matrix	# of Cont.	Filtered	NWTPH-Dx w/o silica del cleanum	rotal As															Cample Case	iii blatan	_
© 7333 i	_ 6 /					Ħ	=	+-	+	-	_	_	-		-		-		-		-		Sample Spec	ilic Notes:	
Before GAC- 0 70221	7/2/4	1515	Grab	W	2	Ш	x																***See instructions b	elow	
HCC EFF- 07022	7/2/21	1525	Grab	w	3		x	x				T											***See instructions b		
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Therm. ID: Cor; S; 4 ° Unc: 8, 9 ° Cooler Dsc: FedEx: Packing: UPS:						T					1	1	1.00			- +	- 		1837.0				***************************************		
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Blue Ice, (Ve) Dry, None Other:						1	<u> </u>					↓ .	580	0-104	4267	7 CI	nain	of	Cus	stod	у				
				İ	- 1	ı				İ		١.		ı		3									
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=	NaOH; 6= O	ther	8.000.000				2	4			1						d			0.00				6.2.0 (20.00)	
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please L Comments Section if the lab is to dispose of the sample.	st any EPA	Waste Cod	les for the s	sample i	n the	s	amp	e Di	spos	sal (A fee	may	be	asse	sse	d if	sam	nple	s a	re r	etair	ned	longer than 1 mont	ı)	
Non-Hazard Flammable Skin Imitant	Poison E	3	Unknow	٧n		7	i R	eturn	to Clie	ent		6	Disc	osal b	w Lah	,			A	rchive	for		Months		
Special Instructions/QC Requirements & Comments: 1) DxRx	requires s	pecial limi	s 0.208 m	g/L, cun	nulative	, Fin	nal V	olum	ne of	2 m	Lrec	uire	d 2)	No s	ilica	a qe	t cle	ean	UD	nee	ded	for	Dx		
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Custody Seals Intact: Yes No	Custody Se	al No.:	······································					To	Coole	er Te	emp.	(°C):	Obs'	d:			Co	orr'd				Ţ	herm ID No.:		
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Regulatory Program: Dw NPDES

Project Manager: Pete Kingston

Tel/Fax: 425-394-4146

Login Sample Receipt Checklist

Client: Farallon Consulting LLC Job Number: 580-104267-1

Login Number: 104267 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Greene, Ashton R

Creator: Greene, Ashton R		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	No Name
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-104830-1

Client Project/Site: BNSF Skykomish Rush NPDES

Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 8/6/2021 3:22:23 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES Laboratory Job ID: 580-104830-1

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Case Narrative

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-104830-1

Laboratory: Eurofins FGS, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC Project: BNSF Skykomish Rush NPDES Report Number: 580-104830-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 07/29/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.1 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-72821 (580-104830-1) and HCC EFF-72821 (580-104830-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared and analyzed on 08/03/2021.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-363839, so an LCS and LCSD were used instead.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 580-104830-1

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Eurofins FGS, Seattle 8/6/2021

Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-104830-1

Project/Site: BNSF Skykomish Rush NPDES

Glossary

MDL

MPN

MQL NC

ND

NEG POS

PQL

PRES

QC

RER RL

RPD TEF

TEQ

TNTC

ML

Method Detection Limit

Minimum Level (Dioxin) Most Probable Number

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Not Detected at the reporting limit (or MDL or EDL if shown)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

8/6/2021

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Client: Farallon Consulting LLC Job ID: 580-104830-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-72821 Lab Sample ID: 580-104830-1

Date Collected: 07/28/21 09:00 Matrix: Water

Date Collected: 07/28/21 09:00 Matrix: Water Date Received: 07/29/21 10:27

Method: NWTPH-Dx - No	rthwest - Semi-Volati	ile Petroleum Prod	ucts (GC)			
Analyte	Result Qual	lifier RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.42	0.062	mg/L	08/03/21 10:0	4 08/03/21 21:24	1
Motor Oil (>C24-C36)	0.27	0.092	mg/L	08/03/21 10:0	4 08/03/21 21:24	1
Surrogate	%Recovery Qual	lifier Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	56	50 - 150		08/03/21 10:0	4 08/03/21 21:24	1

Client: Farallon Consulting LLC Job ID: 580-104830-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: HCC EFF-72821 Lab Sample ID: 580-104830-2

Date Collected: 07/28/21 09:00 Matrix: Water

Date Received: 07/29/21 10:27

Method: NWTPH-Dx - No	orthwest - Semi-Vo	olatile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		08/03/21 10:04	08/03/21 21:44	1
Motor Oil (>C24-C36)	ND		0.091		mg/L		08/03/21 10:04	08/03/21 21:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150				08/03/21 10:04	08/03/21 21:44	1

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QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-104830-1

Project/Site: BNSF Skykomish Rush NPDES

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-363839/1-A

Matrix: Water

Matrix: Water

Analysis Batch: 363939

Analysis Batch: 363939

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 363839

MB MB Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 08/03/21 10:04 08/03/21 20:24 #2 Diesel (C10-C24) ND 0.065 mg/L Motor Oil (>C24-C36) ND 0.096 mg/L 08/03/21 10:04 08/03/21 20:24

MB MB

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac o-Terphenyl 67 50 - 150 08/03/21 10:04 08/03/21 20:24

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 363839

%Rec.

64 - 120

LCS LCS Spike Added Result Qualifier Limits **Analyte** Unit D %Rec 0.500 50 - 120 #2 Diesel (C10-C24) 0.341 mg/L 68

Motor Oil (>C24-C36) 0.500 0.450 LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 80 50 - 150

Lab Sample ID: LCSD 580-363839/3-A

Lab Sample ID: LCS 580-363839/2-A

Matrix: Water

Analysis Batch: 363939

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA **Prep Batch: 363839**

90

mg/L

LCSD LCSD RPD Spike %Rec. Result Qualifier Limits RPD Analyte Added Unit %Rec Limit #2 Diesel (C10-C24) 0.500 0.357 71 50 - 120 26 mg/L Motor Oil (>C24-C36) 0.500 0.425 85 64 - 120 6 mg/L 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl

Eurofins FGS, Seattle

8/6/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-104830-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-72821

Lab Sample ID: 580-104830-1 Date Collected: 07/28/21 09:00

Matrix: Water

Date Received: 07/29/21 10:27

		Batch	Batch		Dilution	Batch	Prepared		
Prep Ty	ре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/N/	4	Prep	3510C			363839	08/03/21 10:04	BJM	FGS SEA
Total/NA	4	Analysis	NWTPH-Dx		1	363939	08/03/21 21:24	TL1	FGS SEA

Lab Sample ID: 580-104830-2 Client Sample ID: HCC EFF-72821

Date Collected: 07/28/21 09:00 **Matrix: Water**

Date Received: 07/29/21 10:27

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			363839	08/03/21 10:04	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	363939	08/03/21 21:44	TL1	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC

Job ID: 580-104830-1 Project/Site: BNSF Skykomish Rush NPDES

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-104830-1	Before GAC-72821	Water	07/28/21 09:00	07/29/21 10:27
580-104830-2	HCC EFF-72821	Water	07/28/21 09:00	07/29/21 10:27

Job ID: 580-104830-1



Chain of Custody Record



580-104830 Chain of Custody	Regu	latory Pr	ogram:	nw	NDDE	ς	RC	DA	Oti	hor											TestAmerica Laboratorie	s. Inc
Client Contact			manda Me		E. NEDE.	7	*****		Matt		cor		ln.	te: 7	7 4	٠	2 1				COC No:	
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(425) 295-0800 Phone (425) 295-0850 FAX	┥ ┌'^		2 weeks		2		- 8														Lab Sampling:	
Project Name: Skykomish HCC System			1 week			E	<u>و</u> ا															
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Comple Identification	Sample Date	Sample Time	(C=Comp, G≕Grab)	Matrix	# of Cont.	#	NWTPH-Dx w/o silica gel cte							1 1	ĺ						Sample Specific Notes:	
Sample Identification	Jale	111116	G-Grab)	IVIALITA	CONL	H	+=		_	+	_	-	+	++		+-	+	┿		-	Sample Opecinic Notes.	
Before GAC- 72 % 2 1	7/23/21	900	Grab	w	2	Ц	X			$\perp \downarrow$	_				\perp		_	<u> </u>		_	***See instructions below	
HCC EFF- 72821	7/28/21	9 cel	Grab	w	2	Ц	х			11											***See instructions below	
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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=	NaOH; 6= C)ther					2			1									1000			
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please t	ict ony EDA	Waste Co	dae far tha	comple i	a tha	s	Samp	le Dis	posa	l (A f	ee m	ay b	e ass	esse	d if s	amp	les a	are r	etaiı	ned	longer than 1 month)	
Gomments Section if the lab is to dispose of the sample.	list arry ErA	vvaste co	ues ioi line	Sample	## ## *																	
Non-Hazard Flammable Skin Irritant	Poison	В	Unkno	OWN		_		Return	to Clier	nt		- Z r	Disnosi	al by La	h			Archi	ve for		Months	
Special Instructions/QC Requirements & Comments: 1) DxR			its 0.208 m	ıg/L, cun	nulativ	e, Fi					equi	red :	2) No	silic	a get	clea	nup	nee	ded	for	Dx	
Custody Seals Intact: Yes No	Custody S	eal No.:						Ic	Cooler	Tem	р. (°С). OI	os'd:_			Corr	'd:			1	Therm ID No.:	
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Therm. ID: _____ Cor: ____ ° Unc: ____ ° Cooler Dsc: _____ FedEx: _____ Packing: _____ UPS: ____ Lab Cour: _____ Blue Ice, Wet, Dry, None Other: _____

8/6/2021

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Login Sample Receipt Checklist

Client: Farallon Consulting LLC Job Number: 580-104830-1

Login Number: 104830 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Greene, Ashton R

Creator: Greene, Ashton R		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-104303-1

Client Project/Site: BNSF Skykomish HCC System

Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 7/12/2021 3:28:00 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

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Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish HCC System Laboratory Job ID: 580-104303-1

Table of Contents

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Case Narrative

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish HCC System

Job ID: 580-104303-1

Laboratory: Eurofins FGS, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC
Project: BNSF Skykomish HCC System
Report Number: 580-104303-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 07/07/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.6 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-7721 (580-104303-1) and HCC EFF-7721 (580-104303-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 07/10/2021 and analyzed on 07/11/2021.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-361551, so a LCS and LCSD were used instead.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 580-104303-1

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-104303-1

Project/Site: BNSF Skykomish HCC System

Glossary

MDA

MDC

MDL

MPN

MQL NC

ND

ML

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"

Negative / Absent NEG POS

Not Calculated

Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

Method Detection Limit

Minimum Level (Dioxin) Most Probable Number

Method Quantitation Limit

RL Reporting Limit or Requested Limit (Radiochemistry)

Minimum Detectable Activity (Radiochemistry)

Minimum Detectable Concentration (Radiochemistry)

Not Detected at the reporting limit (or MDL or EDL if shown)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-104303-1

Project/Site: BNSF Skykomish HCC System

Client Sample ID: Before GAC- 7721 Lab Sample ID: 580-104303-1

Date Collected: 07/07/21 08:15 East Sample 15: 565-16-566-1

Date Received: 07/07/21 12:15

Method: NWTPH-Dx - No	orthwest - Semi-Volati	ile Petroleum Prod	ucts (GC)				
Analyte	Result Qua	alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.40	0.062	mg/L		07/10/21 16:02	07/11/21 02:38	1
Motor Oil (>C24-C36)	0.24	0.092	mg/L		07/10/21 16:02	07/11/21 02:38	1
Surrogate	%Recovery Qua	alifier Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	84	50 - 150			07/10/21 16:02	07/11/21 02:38	1

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Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-104303-1

Project/Site: BNSF Skykomish HCC System

Date Received: 07/07/21 12:15

Client Sample ID: HCC EFF- 7721 Lab Sample ID: 580-104303-2

Date Collected: 07/07/21 08:15 **Matrix: Water**

Method: NWTPH-Dx - No	orthwest - Semi-Vo	olatile Pet	roleum Prodi	ucts (GC)					
Analyte	Result	Qualifier	RL	MDL Un	nit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	mg	g/L		07/10/21 16:02	07/11/21 03:18	1
Motor Oil (>C24-C36)	ND		0.092	mg	g/L		07/10/21 16:02	07/11/21 03:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	65		50 - 150				07/10/21 16:02	07/11/21 03:18	1

QC Sample Results

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish HCC System

Job ID: 580-104303-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-361551/1-A

Lab Sample ID: LCS 580-361551/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 361556

Analyte

Analysis Batch: 361556

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 361551

MB MB Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 07/10/21 16:02 07/11/21 01:19 #2 Diesel (C10-C24) ND 0.065 mg/L Motor Oil (>C24-C36) ND 0.096 mg/L 07/10/21 16:02 07/11/21 01:19

MB MB

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 50 - 150 o-Terphenyl 74 07/10/21 16:02 07/11/21 01:19

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 361551

%Rec.

LCS LCS Spike Added Result Qualifier D %Rec Limits **Analyte** Unit 0.500 50 - 120 #2 Diesel (C10-C24) 0.423 mg/L 85 Motor Oil (>C24-C36) 0.500 0.506 101 64 - 120 mg/L

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 94 50 - 150

Lab Sample ID: LCSD 580-361551/3-A

Matrix: Water

Analysis Batch: 361556

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 361551

LCSD LCSD Spike %Rec. **RPD** Result Qualifier Limits RPD Analyte Added Unit %Rec Limit #2 Diesel (C10-C24) 0.500 0.416 83 50 - 120 2 26 mg/L Motor Oil (>C24-C36) 0.500 0.492 98 64 - 120 mg/L 3 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl 92

Eurofins FGS, Seattle

7/12/2021

Lab Chronicle

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish HCC System

Client Sample ID: Before GAC- 7721 Lab Sample ID: 580-104303-1

Date Collected: 07/07/21 08:15

Matrix: Water

Date Collected: 07/07/21 08:15 Matrix: Water Date Received: 07/07/21 12:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			361551	07/10/21 16:02	JBT	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	361556	07/11/21 02:38	T1W	FGS SEA

Client Sample ID: HCC EFF- 7721 Lab Sample ID: 580-104303-2

Date Collected: 07/07/21 08:15 Matrix: Water

Date Received: 07/07/21 12:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			361551	07/10/21 16:02	JBT	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	361556	07/11/21 03:18	T1W	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

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Job ID: 580-104303-1

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Eurofins FGS, Seattle

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-104303-1

Project/Site: BNSF Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-21

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Sample Summary

Water

Client: Farallon Consulting LLC

Lab Sample ID 580-104303-1

580-104303-2

Project/Site: BNSF Skykomish HCC System

HCC EFF- 7721

Client Sample ID	Matrix	Collected	Received	Asset ID	
Before GAC- 7721	Water	07/07/21 08:15	07/07/21 12:15		

07/07/21 08:15 07/07/21 12:15

Job ID: 580-104303-1

TestAmerica Seattle

Chain of Custody Record

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5755 8th Street East

Tacoma, WA 98424-1317 phone 253,922.2310 fax 253,922,5047	Regu	latory Pre	ogram:		NPDES	í	RCF		Other:									THE LEADER IN			
Client Contact		lanager: P				_		tact: N	·	wear		Date:	~ ~ ~	7 - 2	// 5	1		OC No:	a Layyı	atorie	75, IIIC.
Farallong Consulting		425-394-41	·			l ah	Con	tact: K				Carrie		, _ <u>, , , , , , , , , , , , , , , , , ,</u>	V 04		- F	又 of	ર c	OC.	
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Project Name: Skykomish HCC System	-		week			2 >								Ì				ab Sampling:	L		
Site:						<u>`</u> ⊊	3 8														
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reservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=	NaOH; 6= O	ther					2			1											
ossible Hazard Identification: are any samples from a listed EPA Hazardous Waste? Please L comments Section if the lab is to dispose of the sample.	ist any EPA	Waste Cod	des for the	sample in	n the	Sa	ampl	e Dispo	osal (/	A fee r	nay be	assess	sed if	samp	oles a	re reta	ined lo	nger than 1	month)		
Non-Hazard Flammable Skin Irritant	Poison E	}	Unkno	wn		7	Re	turn to C	lient		Z Di	posal by i	ah		T A	rchive fo	r	Months			I
pecial Instructions/QC Requirements & Comments: 1) DxR:	x requires s	pecial limi	ts 0.208 n	ıg/L, cum	nulative	, Fin	al Vo	olume o	of 2 ml	L requ	ired 2) No sili	ica ge	t clea	anup	neede	d for Dx	C			
Custody Seals Intact: Yes No	Custody Se	al No.:						Cod	oler Te	mp. (°	C): Ob	s'd:		_ Corr	r*d:		The	rm ID No.:			
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Login Sample Receipt Checklist

Client: Farallon Consulting LLC Job Number: 580-104303-1

Login Number: 104303 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Vallelunga, Diana L

Creator. Valleturiga, Diaria L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-104475-1

Client Project/Site: BNSF Skykomish Rush NPDES

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Knistine D. allen

Authorized for release by: 7/20/2021 6:01:29 PM
Kristine Allen, Client Service Manager (253)248-4970
Kristine.Allen@Eurofinset.com

Designee for

Nathan Lewis, Project Manager I (253)922-2310
Nathan.Lewis@Eurofinset.com

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES Laboratory Job ID: 580-104475-1

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Case Narrative

Client: Farallon Consulting LLC

Job ID: 580-104475-1 Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-104475-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-104475-1

Comments

No additional comments.

Receipt

The samples were received on 7/14/2021 11:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-362447, so a LCS and LCSD were used instead.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-104475-1

Project/Site: BNSF Skykomish Rush NPDES

Glossary

MPN

MQL

NC

ND

NEG

POS

PQL

QC RER

RL

RPD TEF

TEQ

TNTC

PRES

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive **Quality Control**

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-104475-1

Project/Site: BNSF Skykomish Rush NPDES

Date Received: 07/14/21 11:15

Client Sample ID: Before GAC-071321

Lab Sample ID: 580-104475-1 Date Collected: 07/13/21 11:25

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.34		0.062		mg/L		07/20/21 09:46	07/20/21 13:26	1
Motor Oil (>C24-C36)	0.30		0.092		mg/L		07/20/21 09:46	07/20/21 13:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	72		50 ₋ 150				07/20/21 09:46	07/20/21 13:26	1

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-104475-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: HCC EFF-071321

Lab Sample ID: 580-104475-2

Matrix: Water

Date Collected: 07/13/21 11:35 Date Received: 07/14/21 11:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.063		mg/L		07/20/21 09:46	07/20/21 13:46	1
Motor Oil (>C24-C36)	ND		0.092		mg/L		07/20/21 09:46	07/20/21 13:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	65		50 - 150				07/20/21 09:46	07/20/21 13:46	1

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QC Sample Results

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-104475-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-362447/1-A

Matrix: Water Analysis Batch: 362487

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065		mg/L		07/20/21 09:46	07/20/21 12:27	1
Motor Oil (>C24-C36)	ND		0.096		mg/L		07/20/21 09:46	07/20/21 12:27	1

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac o-Terphenyl 61 50 - 150 07/20/21 09:46 07/20/21 12:27

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 362447

Matrix: Water Prep Type: Total/NA Analysis Batch: 362487

Prep Batch: 362447

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
#2 Diesel (C10-C24)	0.500	0.307		mg/L		61	50 - 120	
Motor Oil (>C24-C36)	0.500	0.343		mg/L		69	64 - 120	

LCS LCS Surrogate %Recovery Qualifier Limits o-Terphenyl 63 50 - 150

Lab Sample ID: LCSD 580-362447/3-A

Lab Sample ID: LCS 580-362447/2-A

Matrix: Water

Prep Type: Total/NA Analysis Batch: 362487 **Prep Batch: 362447** LCSD LCSD RPD %Rec. Spike

Analyte Added Result Qualifier Unit Limits **RPD** Limit #2 Diesel (C10-C24) 0.500 62 0.311 mg/L 50 - 120 26 Motor Oil (>C24-C36) 0.500 0.370 mg/L 74 64 - 120 8 24

LCSD LCSD Surrogate %Recovery Qualifier Limits o-Terphenyl 60 50 - 150

Eurofins FGS, Seattle

7/20/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-104475-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-071321

Lab Sample ID: 580-104475-1 Date Collected: 07/13/21 11:25

Matrix: Water

Date Received: 07/14/21 11:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			362447	07/20/21 09:46	N1B	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	362487	07/20/21 13:26	ADB	FGS SEA

Client Sample ID: HCC EFF-071321 Lab Sample ID: 580-104475-2

Matrix: Water

Date Collected: 07/13/21 11:35 Date Received: 07/14/21 11:15

Batch Batch Dilution Batch Prepared Method **Prep Type** Type Run Factor Number or Analyzed Analyst Lab Total/NA Prep 3510C 362447 07/20/21 09:46 N1B FGS SEA Total/NA NWTPH-Dx FGS SEA Analysis 362487 07/20/21 13:46 ADB

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Eurofins FGS, Seattle

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-104475-1

Project/Site: BNSF Skykomish Rush NPDES

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-21 *

Page 9 of 12

7/20/2021

Eurofins FGS, Seattle

 $^{^{\}star}\, \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Sample Summary

Water

Client: Farallon Consulting LLC

Lab Sample ID

580-104475-1

580-104475-2

Project/Site: BNSF Skykomish Rush NPDES

HCC EFF-071321

 Client Sample ID
 Matrix
 Collected
 Received
 Asset ID

 Before GAC-071321
 Water
 07/13/21 11:25
 07/14/21 11:15

07/13/21 11:35

07/14/21 11:15

2

Job ID: 580-104475-1

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Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East

Client Contact	Project N	lanager: P	ete Kingsto	on		Site	Cont	act: Matt B	owser		Date:				COC No:		-
arallong Consulting	Tel/Fax: 425-394-4146 L					Lab	Lab Contact: Kristine Allen Carrier:					of		of	2 coc	S	
75 5th Avenue Northwest		Analysis Turnaround Time				П	19							Sampler:			
ssaquah, Washington	CALENDAR DAYS WORKING DAYS					gel cleanup					[For Lab Use Only:					
425) 295-0800 Phone	TA	T if different f	from Below	3 DA	Ϋ́] <u>2</u>	길호								Walk-in Client:		
425) 295-0850 FAX		2	weeks			Σ×	- 6								Lab Sampling:		
Project Name: Skykomish HCC System			l week		1	وإح	silica										
Site:			days			ple ()	9								Job / SDG No.:	<u>.</u>	
VO # TT0100-S03	<u> </u>	1	day			Sample (Y/N) MS/MSD (Y/	اجَا										
	Sample	Sample	Sample Type (C=Comp,		# of	Filtered S Perform I	≣I± I										
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HCC EFF- 07132	7/13/21	1135	Grab	w	2		х								***See instructi	ons below	
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Non-Hazard Flammable Skin Irritant	Poison E		Unknov			上		urn to Client		√ Disp	osal by Lab		Archive fo		Months		
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Custody Seals Intact: Yes No	Custody Se	eal No.:						Cooler T	Гетр. (°С): Obs'	d:	Corr'c	1:	T	herm ID No.:_		
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Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-104475-1

Login Number: 104475 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Greene, Ashton R

Creator. Greene, Ashton K		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	No Name
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-104667-1

Client Project/Site: BNSF Skykomish Rush NPDES

Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 7/29/2021 5:13:55 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES Laboratory Job ID: 580-104667-1

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Case Narrative

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-104667-1

Job ID: 580-104667-1

Laboratory: Eurofins FGS, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC Project: BNSF Skykomish Rush NPDES Report Number: 580-104667-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 07/22/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.0 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-072121 (580-104667-1) and HCC EFF-072121 (580-104667-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 07/23/2021 and analyzed on 07/24/2021 and 07/26/2021.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Eurofins FGS, Seattle 7/29/202

Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-104667-1

Project/Site: BNSF Skykomish Rush NPDES

Glossary

MPN

MQL

NC

ND

NEG

POS

PQL

QC RER

RL

RPD

TEF

TEQ

TNTC

PRES

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive **Quality Control**

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-104667-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-072121

Date Received: 07/22/21 11:25

Lab Sample ID: 580-104667-1 Date Collected: 07/21/21 11:10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.47		0.062		mg/L		07/23/21 10:02	07/26/21 16:46	1
Motor Oil (>C24-C36)	0.45		0.092		mg/L		07/23/21 10:02	07/26/21 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	68		50 _ 150				07/23/21 10:02	07/26/21 16:46	1

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-104667-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: HCC EFF-072121

Lab Sample ID: 580-104667-2 Date Collected: 07/21/21 11:20

Matrix: Water

Date Received: 07/22/21 11:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		07/23/21 10:02	07/24/21 18:09	1
Motor Oil (>C24-C36)	ND		0.092		mg/L		07/23/21 10:02	07/24/21 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	72		50 - 150				07/23/21 10:02	07/24/21 18:09	1

QC Sample Results

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-104667-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-362834/1-A

Lab Sample ID: LCS 580-362834/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 362940

Analysis Batch: 362940

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 362834

MB MB Dil Fac Analyzed Analyte Result Qualifier RLMDL Unit D Prepared #2 Diesel (C10-C24) ND 0.065 mg/L 07/23/21 10:02 07/24/21 15:43 Motor Oil (>C24-C36) ND 0.096 mg/L 07/23/21 10:02 07/24/21 15:43

MB MB

Surrogate Qualifier Limits Prepared Dil Fac %Recovery Analyzed o-Terphenyl 67 50 - 150 07/23/21 10:02 07/24/21 15:43

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 362834

Spike LCS LCS %Rec. Limits Analyte Added Result Qualifier Unit %Rec #2 Diesel (C10-C24) 0.500 0.460 mg/L 92 50 - 120 0.500 Motor Oil (>C24-C36) 0.505 101 64 - 120 mg/L

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 87 50 - 150

Lab Sample ID: LCSD 580-362834/3-A

Matrix: Water

Analysis Batch: 362940

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 362834

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit #2 Diesel (C10-C24) 0.500 0.462 92 50 - 120 26 mg/L Motor Oil (>C24-C36) 0.500 0.494 mg/L 99 64 - 120 2 24

LCSD LCSD

Surrogate Qualifier Limits %Recovery o-Terphenyl 93 50 - 150

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-104667-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-072121

Lab Sample ID: 580-104667-1 Date Collected: 07/21/21 11:10

Matrix: Water

Date Received: 07/22/21 11:25

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			362834	07/23/21 10:02	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	362970	07/26/21 16:46	RJL	FGS SEA

Client Sample ID: HCC EFF-072121 Lab Sample ID: 580-104667-2

Date Collected: 07/21/21 11:20

Matrix: Water

Date Received: 07/22/21 11:25

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			362834	07/23/21 10:02	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	362940	07/24/21 18:09	T1W	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Eurofins FGS, Seattle

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-104667-1

Project/Site: BNSF Skykomish Rush NPDES

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

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Sample Summary

Water

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Lab Sample ID Client Sample ID Matrix Collected Received 580-104667-1 Before GAC-072121 Water 07/21/21 11:10 07/22/21 11:25 580-104667-2 HCC EFF-072121 07/21/21 11:20 07/22/21 11:25

Job ID: 580-104667-1

TestAmerica Seattle

5755 8th Street East



Cha



Tacoma WA 98424-1317

ain of Custody Record	<u>TestAmerica</u>
	Marie A Carolle da Calonda da Carolle da Calonda de Carolle de Car

phone 253.922.2310 fax 253.922.5047		-		_ DW	NPDF	<i>E</i> S	R/	CRA	o	Other:	:											TestAmerica Laborator	ries, Inc
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Login Sample Receipt Checklist

Client: Farallon Consulting LLC Job Number: 580-104667-1

Login Number: 104667 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Vallelunga, Diana L

ordatori vanoranga, Diana L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-105013-1

Client Project/Site: BNSF Skykomish Rush NPDES

Sampling Event: Skykomish - GAC/HCC

For:

eurofins

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 8/16/2021 3:34:54 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

Review your project results through

Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES Laboratory Job ID: 580-105013-1

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Case Narrative

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-105013-1

Laboratory: Eurofins FGS, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC Project: BNSF Skykomish Rush NPDES Report Number: 580-105013-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/05/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was -2.3 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC-8521 (580-105013-1) and HCC EFF-8521 (580-105013-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared on 08/11/2021 and analyzed on 08/13/2021.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-364788, so an LCS and LCSD were used instead.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 580-105013-1

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-105013-1

Project/Site: BNSF Skykomish Rush NPDES

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) Most Probable Number MPN Method Quantitation Limit

MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent NEG POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-105013-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-8521 Lab Sample ID: 580-105013-1

Date Collected: 08/05/21 08:30 Matrix: Water

Date Received: 08/05/21 11:05

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.10		0.062		mg/L		08/11/21 17:04	08/13/21 12:25	1
Motor Oil (>C24-C36)	ND		0.091		mg/L		08/11/21 17:04	08/13/21 12:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	<u></u>		50 - 150				08/11/21 17:04	08/13/21 12:25	1

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-105013-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: HCC EFF-8521

Lab Sample ID: 580-105013-2 Date Collected: 08/05/21 08:30

Matrix: Water Date Received: 08/05/21 11:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		08/11/21 17:04	08/13/21 13:26	1
Motor Oil (>C24-C36)	ND		0.091		mg/L		08/11/21 17:04	08/13/21 13:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	76		50 - 150				08/11/21 17:04	08/13/21 13:26	1

QC Sample Results

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-364788/1-A

Lab Sample ID: LCS 580-364788/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 364934

Analysis Batch: 364934

Client Sample ID: Method Blank

Prep Type: Total/NA

Job ID: 580-105013-1

Prep Batch: 364788

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.065	mg/L		08/11/21 17:04	08/13/21 11:45	1
Motor Oil (>C24-C36)	ND	0.096	mg/L		08/11/21 17:04	08/13/21 11:45	1

MB MB

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 76 50 - 150 08/11/21 17:04 08/13/21 11:45

LCS LCS

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 364788

%Rec.

Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
#2 Diesel (C10-C24)	 0.500	0.390		mg/L		78	50 - 120	
Motor Oil (>C24-C36)	0.500	0.457		mg/L		91	64 - 120	

Spike

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 85 50 - 150

Lab Sample ID: LCSD 580-364788/3-A

Matrix: Water

Analysis Batch: 365047

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 364788

LCSD LCSD RPD Spike %Rec. Added Result Qualifier Limits RPD Analyte Unit %Rec Limit #2 Diesel (C10-C24) 0.500 0.327 65 50 - 120 18 26 mg/L Motor Oil (>C24-C36) 64 - 120 0.500 0.389 78 mg/L 16 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 65 50 - 150 o-Terphenyl

8/16/2021

Lab Chronicle

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-8521 Lab Sample ID: 580-105013-1

Date Collected: 08/05/21 08:30
Date Received: 08/05/21 11:05

Matrix: Water

Batch Batch Dilution Batch Prepared **Prep Type** Method **Factor** Number or Analyzed Type Run Analyst Lab Prep Total/NA 3510C 364788 08/11/21 17:04 FGS SEA Total/NA NWTPH-Dx 364934 08/13/21 12:25 ADB FGS SEA Analysis 1

Client Sample ID: HCC EFF-8521 Lab Sample ID: 580-105013-2

Date Collected: 08/05/21 08:30 Matrix: Water

Date Received: 08/05/21 11:05

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			364788	08/11/21 17:04	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	364934	08/13/21 13:26	ADB	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Job ID: 580-105013-1

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Accreditation/Certification Summary

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

Job ID: 580-105013-1

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Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-105013-1	Before GAC-8521	Water	08/05/21 08:30	08/05/21 11:05
580-105013-2	HCC EFF-8521	Water	08/05/21 08:30	08/05/21 11:05

Job ID: 580-105013-1

Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

	Regu	ulatory Pro	ogram: 🥤	☐ DW	☑ NPD	ÆS	[_] F	RCRA	4	Other	.;												TestAmerica Laborat	tories, Inc
Client Contact	Project N	Manager: Aı	manda Me	₃ugniot		Sit	te Cr	onta	act: Ma	att Br	owse	ar		Da	ite:	8-	.5.	- 20	52	٠1		T	COC No:	
Farallong Consulting	Tel/Fax:	425-295-08	300	***************************************		La	ab Cc	onta	act: Na	athan	Lew	vis		_	rrier		-			~~~~		1		Cs
975 5th Avenue Northwest		Analysis 7	Turnaround	d Time		T	\prod	9	T			Т	T				\Box	T	\top	\top	T		Sampler: 5W	
Issaquah, Washington		ENDAR DAYS		ORKING DAY	YS	11	1 5	cleanup						1						, [Ī	For Lab Use Only:	
(425) 295-0800 Phone	T≠	AT if different fr	from Below 3	3 DAY	2	77	2	اقًا	'					1						.		l	Walk-in Client:	
(425) 295-0850 FAX			2 weeks			2	12/2	6	- '											.		L	Lab Sampling:	
Project Name: Skykomish HCC System		*	1 week			[3]	10 9	ੜੂ	'				1	11								L		
Site:			2 days			흥	SE .	وُ	'							1						J	Job / SDG No.:	
WO # TT0100-S03			1 day			ĬĔĮ.	18	×	'								l					L		
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform A	NW IT I															Sample Specific No	otes:
Before GAC- 9,52)	3/5/21	8:30	Grab	w	2	П	х	- 1		П							Ī				I		***See instructions below	
HCC EFF- 8 521	8/5/21	8.30	Grab	w	2	Ц	x	1		\prod							1		\rfloor		\perp		**See instructions below	
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Therm. ID: Cor: Q. 3			<u> </u>	1		4		+	\perp	4	4	<u></u> '	$\perp \!\!\! \perp$	4	4	_	4	4	_	4	4	_		<u></u>
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Blue Ice, Wet Dry, None Other:			1		1		L			ıL		'		(\bot)	1									!
	1		,			П	T	T		\prod	T						T	T	T		1	T		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=	NaOH: 6= C	Other	Alexandra d	WAVE COM		4	2	4	+++			4					NO E		+		1			Average and
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please L Comments Section if the lab is to dispose of the sample. Non-Hazard		A Waste Cod	odes for the s		n the	S	Samp	ple D	Dispos	osal (A	A fee			asse			sam			re ret			onger than 1 month)	gir 1961 bilan serinin
Special Instructions/QC Requirements & Comments: 1) DxRx					nulati	√e. Fi	inal \	Volu-	ime o	f 2 m'	L rec	quire	الاطالة: •d 2'	<u>005a</u> . 1 No	silic	-a 06	t clf	anu Vanu	in r	reed	ed f	for D	Promisis	
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Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-105013-1

Login Number: 105013 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Greene, Ashton R

Creator. Greene, Ashton N		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-105171-1

Client Project/Site: BNSF Skykomish Rush NPDES

Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by:

8/24/2021 2:52:08 PM
Pauline Matlock, Project Manager (253)922-2310
pauline.matlock@eurofinset.com

Designee for

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES Laboratory Job ID: 580-105171-1

Table of Contents

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Case Narrative

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-105171-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-105171-1

Comments

No additional comments.

Receipt

The samples were received on 8/12/2021 12:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.0° C.

GC Semi VOA

Method NWTPH-Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was #2 Diesel (C10-C24) later than the typical diesel fuel pattern used by the laboratory for quantitative purposes. Also Motor Oil (>C24-C36) was earlier than the typical diesel fuel pattern used by the laboratory for quantitative purposes: Before GAC-81121 (580-105171-1) and HCC EFF-81121 (580-105171-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 580-105171-1

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-105171-1

Project/Site: BNSF Skykomish Rush NPDES

Glossary

MDL

ML

MPN

MQL

NC

ND

NEG POS

PQL

PRES

QC

RER

RPD TEF

TEQ

TNTC

RL

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-105171-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-81121 Lab Sample ID: 580-105171-1

Date Collected: 08/11/21 13:20 Matrix: Water

Date Received: 08/12/21 12:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.37		0.062		mg/L		08/18/21 11:58	08/20/21 18:30	1
Motor Oil (>C24-C36)	0.29		0.092		mg/L		08/18/21 11:58	08/20/21 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	79		50 - 150				08/18/21 11:58	08/20/21 18:30	1

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Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-105171-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: HCC EFF-81121

Date Collected: 08/11/21 13:30 Date Received: 08/12/21 12:05

Lead

Lab Sample ID: 580-105171-2

08/12/21 18:26 08/13/21 14:19

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		08/18/21 11:58	08/20/21 18:50	1
Motor Oil (>C24-C36)	ND		0.092		mg/L		08/18/21 11:58	08/20/21 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	73		50 - 150				08/18/21 11:58	08/20/21 18:50	1
- Method: 200.8 - Metals ((ICP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0015		0.0010		mg/L		08/12/21 18:26	08/13/21 14:19	

0.00040

mg/L

ND

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Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-365428/1-A

Lab Sample ID: LCS 580-365428/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 365684

Analysis Batch: 365684

Client Sample ID: Method Blank

Prep Type: Total/NA

Job ID: 580-105171-1

Prep Batch: 365428

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065		mg/L		08/18/21 11:58	08/20/21 17:31	1
Motor Oil (>C24-C36)	ND		0.096		mg/L		08/18/21 11:58	08/20/21 17:31	1

MB MB

MB MB

%Recovery Qualifier Surrogate I imits Prepared Analyzed Dil Fac o-Terphenyl 84 50 - 150 08/18/21 11:58 08/20/21 17:31

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 365428

LCS LCS Spike %Rec. Added Result Qualifier Limits **Analyte** Unit D %Rec #2 Diesel (C10-C24) 0.500 50 - 120 0.440 mg/L 88 Motor Oil (>C24-C36) 0.500 0.517 103 64 - 120 mg/L

50 - 150

LCS LCS %Recovery Qualifier Limits

Lab Sample ID: LCSD 580-365428/3-A

Matrix: Water

Surrogate

o-Terphenyl

Analysis Batch: 365684

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 365428

LCSD LCSD Spike %Rec. **RPD** Result Qualifier Limits RPD Analyte Added Unit %Rec Limit #2 Diesel (C10-C24) 0.500 0.421 50 - 120 mg/L 84 26 Motor Oil (>C24-C36) 0.500 0.465 64 - 120 mg/L 93 11 24

LCSD LCSD

MD MD

92

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-364915/14-A

Matrix: Water

Analysis Batch: 365143

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 364915

	IVID	IAID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010		mg/L		08/12/21 18:26	08/13/21 14:12	1
Lead	ND		0.00040		mg/L		08/12/21 18:26	08/13/21 14:12	1

Lab Sample ID: LCS 580-364915/15-A

Matrix: Water

Analysis Batch: 365143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 364915

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	1.00	0.982		mg/L	_	98	85 - 115
Lead	1.00	0.969		mg/L		97	85 - 115

Eurofins FGS, Seattle

Client: Farallon Consulting LLC Job ID: 580-105171-1

Project/Site: BNSF Skykomish Rush NPDES

Lab Sample ID: LCSD 580-364915/16-A

Matrix: Water

Lead

Method: 200.8 - Metals (ICP/MS) (Continued)

ND

Client	Sample	ID:	Lab	Control	Sample	Du

100

70 - 130

Prep Type: Total/NA
Prep Batch: 364915

Analysis Batch: 365143							Prep Ba	itch: 36	64915
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	1.00	0.980		mg/L	_	98	85 - 115	0	20
Lead	1.00	0.965		mg/L		96	85 - 115	0	20

Lab Sample ID: 580-105171-2 MS Client Sample ID: HCC EFF-81121 **Matrix: Water Prep Type: Total/NA Analysis Batch: 365143 Prep Batch: 364915** Sample Sample Spike MS MS %Rec. **Analyte** Result Qualifier Added Result Qualifier Unit D %Rec Limits 0.0015 1.04 70 - 130 Arsenic 1.00 mg/L 103

1.00

mg/L

1.00

Lab Sample ID: 580-1051 Matrix: Water	71-2 MSD						Clien	t Samp	le ID: HC		
Analysis Batch: 365143									Prep Ty Prep Ba	•	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	0.0015		1.00	1.04		mg/L		104	70 - 130	0	20
l ead	ND		1.00	1 02		ma/l		102	70 130	1	20

Lab Sample ID: 58	0-105171-2 DU					Client San	nple ID: HCC EFF-	81121
Matrix: Water							Prep Type: Tot	tal/NA
Analysis Batch: 36	65143						Prep Batch: 3	64915
	Sample	Sample	DU	DU			•	RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Arsenic	0.0015		0.00149		mg/L		0.8	20
Lead	ND		ND		mg/L		NC	20

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8/24/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-105171-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-81121 Lab Sample ID: 580-105171-1

Date Collected: 08/11/21 13:20 Matrix: Water

Date Received: 08/12/21 12:05

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	3510C			365428	08/18/21 11:58	JHR	FGS SEA
١	Total/NA	Analysis	NWTPH-Dx		1	365684	08/20/21 18:30	RJL	FGS SEA

Client Sample ID: HCC EFF-81121 Lab Sample ID: 580-105171-2

Date Collected: 08/11/21 13:30 Lab Sample 1D. 300-10317 1-2

Date Received: 08/12/21 12:05

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			365428	08/18/21 11:58	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	365684	08/20/21 18:50	RJL	FGS SEA
Total/NA	Prep	200.8			364915	08/12/21 18:26	TMH	FGS SEA
Total/NA	Analysis	200.8		1	365143	08/13/21 14:19	FCW	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

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Accreditation/Certification Summary

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-105171-1

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

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Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-105171-1	Before GAC-81121	Water	08/11/21 13:20	08/12/21 12:05
580-105171-2	HCC EFF-81121	Water	08/11/21 13:30	08/12/21 12:05

Job ID: 580-105171-1

Chain of Custody Record



580-105171 Chain of Custody	Regu	ulatory Pr	ogram:	DW	NPDE9	5	□ R	CRA	\Box	Other											TantAmorine I ak.	
Client Contact		Manager: A				_			t: Ma					Da	ta:		······································				TestAmerica Labo	ratories, inc
Farallong Consulting		425-295-08		- agmot		1			t: Na					-	rrier							COCs
975 5th Avenue Northwest		Analysis 1		d Time		T			1. 140	liiaii	Lev	V13	T	Ca	rrier		_	_	1	Т		JUCS
Issaquah, Washington	CALE	NDAR DAYS		ORKING DA	YS	1	N)														Sampler:	
(425) 295-0800 Phone	T/	AT if different t	from Below	3 DAY	,	1	⋺ 8														For Lab Use Only: Walk-in Client:	ŀ
(425) 295-0850 FAX			2 weeks				- 8	, æ											1		Lab Sampling:	
Project Name: Skykomish HCC System			1 week			ξŀ	SO (Y	118			- {	-							1		Lan Samping.	L
Site:			2 days				S S	EPA									1				1. t. (000 N)	
WO # TT0100-S03			1 day				֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	<u> </u>	.												Job / SDG No.:	
		T	Sample	T		Sa	žĮŏ	As, Pb	1 1		İ						İ			,		
Sample Identification	Sample Date	Sample Time	Type (C≈Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N	NWTPH-Dx w/o silic	Total As													Sample Specific	: Notes:
Before GAC- のぞれこし	8/11/21		Grab	W	2		х														***See instructions belo	
HCC EFF- DB1121	8/11/21	1330	Grab	w	3		×	х		_		_									***See instructions belo	iw
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Therm. ID: A: Cor: O o Unc: O o Cor: O cor:																						
Cooler Dsc: FedEx:																						
Packing: UPS: UPS: Lab Cour: X																				1		
Blue Ice Wet Dry, None Other:															T					1		
																				T		
reservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=	NaOH; 6= O	ther			MANAGA PANAGA PANAGA PANAGA PANAGA PANAGA PANAGA PANAGA PANAGA PANAGA PANAGA PANAGA PANAGA PANAGA PANAGA PANAG		2	4				N.	XXXX			N W		110	NO.			ARNON BARBAN
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please L Comments Section if the lab is to dispose of the sample.	ist any EPA	Waste Coo	les for the	sample ir	n the	S	ampl	e Di	spos	al (A	A fee	may	/ be a	asse	ssec	lifsa	ampl	les a	re re	taine	ed longer than 1 month)	
Non-Hazard Flammable Skin Irritant	Poison	В	Unkno	wn		1	: R	etum	to Clie	ent		П	Dist	nnes) l	hv I al			Π.	Archive	a for	Months	
pecial Instructions/QC Requirements & Comments: 1) DxR:	x requires s	pecial limi	ts 0.208 m	g/L, cum	ulative,	Fin	al Vo	olum	e of	2 mL	. req	uire	1 2)	No s	ilica	get	clear	nup	need	ed fo	or Dx	
Custody Seals Intact: Yes No	Custody Se	al No.:						le	Coole	r Ter	mp. ((°C):	Obs'	d:		(Corric	d:			Therm ID No.:	
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Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-105171-1

Login Number: 105171 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Greene, Ashton R

Answer	Comment
N/A	
True	
True	
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ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-105235-1

Client Project/Site: BNSF Skykomish Rush NPDES

Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by:

8/25/2021 3:45:42 PM

Pauline Matlock, Project Manager

(253)922-2310

pauline.matlock@eurofinset.com

Designee for

Nathan Lewis, Project Manager I

(253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES Laboratory Job ID: 580-105235-1

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Case Narrative

Client: Farallon Consulting LLC

Job ID: 580-105235-1 Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-105235-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-105235-1

Comments

No additional comments.

Receipt

The samples were received on 8/16/2021 11:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was -0.2° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-105235-1

Project/Site: BNSF Skykomish Rush NPDES

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-105235-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-81521 Lab Sample ID: 580-105235-1

Date Collected: 08/15/21 16:15 Matrix: Water

Date Received: 08/16/21 11:45

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.39		0.062		mg/L		08/23/21 10:43	08/24/21 20:55	1
Motor Oil (>C24-C36)	0.23		0.091		mg/L		08/23/21 10:43	08/24/21 20:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	88		50 - 150				08/23/21 10:43	08/24/21 20:55	1

9

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-105235-1

Project/Site: BNSF Skykomish Rush NPDES

Date Received: 08/16/21 11:45

Client Sample ID: HCC EFF-81521

Lab Sample ID: 580-105235-2 Date Collected: 08/15/21 16:15

Matrix: Water

Method: NWTPH-DX - N	ortnwest - Semi-volatile Pet	roleum Prod	ucts (GC)			
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.062	mg/L	08/23/21 10:43	08/24/21 21:15	1
Motor Oil (>C24-C36)	ND	0.092	mg/L	08/23/21 10:43	08/24/21 21:15	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
o-Ternhenyl		50 150		08/23/21 10:43	08/24/21 21:15	1

QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-105235-1

Project/Site: BNSF Skykomish Rush NPDES

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-365803/1-A

Matrix: Water

Matrix: Water

Analysis Batch: 365972

Analysis Batch: 365972

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 365803

	MB MB						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.065	mg/L		08/23/21 10:43	08/24/21 19:14	1
Motor Oil (>C24-C36)	ND	0.096	mg/L		08/23/21 10:43	08/24/21 19:14	1

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 85 50 - 150 08/23/21 10:43 08/24/21 19:14

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 365803

%Rec.

LCS LCS Spike Added Result Qualifier Unit Limits **Analyte** D %Rec 0.500 50 - 120 #2 Diesel (C10-C24) 0.393 mg/L 79 Motor Oil (>C24-C36) 0.500 0.498 100 64 - 120 mg/L

> LCS LCS %Recovery Qualifier Limits 95 50 - 150

Lab Sample ID: LCSD 580-365803/3-A

Lab Sample ID: LCS 580-365803/2-A

Matrix: Water

Surrogate

o-Terphenyl

Analysis Batch: 365972

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 365803

Analysis Dalcii. 303312							Lieb Do	ittii. St	33003
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	 0.500	0.422		mg/L		84	50 - 120	7	26
Motor Oil (>C24-C36)	0.500	0.516		mg/L		103	64 - 120	3	24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 100 50 - 150 o-Terphenyl

Eurofins FGS, Seattle

8/25/2021

Lab Chronicle

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-81521 Lab Sample ID: 580-105235-1

Date Collected: 08/15/21 16:15 Date Received: 08/16/21 11:45

Matrix: Water

Job ID: 580-105235-1

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			365803	08/23/21 10:43	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	365972	08/24/21 20:55	T1W	FGS SEA

Lab Sample ID: 580-105235-2 Client Sample ID: HCC EFF-81521

Matrix: Water Date Collected: 08/15/21 16:15

Date Received: 08/16/21 11:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			365803	08/23/21 10:43	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	365972	08/24/21 21:15	T1W	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC

Job ID: 580-105235-1 Project/Site: BNSF Skykomish Rush NPDES

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

Sample Summary

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 580-105235-1
 Before GAC-81521
 Water
 08/15/21 16:15
 08/16/21 11:45

 580-105235-2
 HCC EFF-81521
 Water
 08/15/21 16:15
 08/16/21 11:45

1

Job ID: 580-105235-1

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TestAmerica Seattle

5755 8th Street East

Chain of Custody Record

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580-105235 Chain of Custody

Tacoma, WA 98424-1317				
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Packing: 157/185 UPS:													1							
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- Blue Ice Wet Dry, None Other:							1		$\bot \bot$											
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Login Sample Receipt Checklist

Client: Farallon Consulting LLC Job Number: 580-105235-1

Login Number: 105235 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Greene, Ashton R

Creator. Greene, Ashton K		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-105415-1

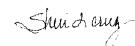
Client Project/Site: BNSF Skykomish Rush NPDES

Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot



Authorized for release by: 8/27/2021 11:29:53 AM Sheri Cruz, Project Manager I (253)922-2310 Sheri.Cruz@Eurofinset.com

Designee for

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES Laboratory Job ID: 580-105415-1

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Case Narrative

Client: Farallon Consulting LLC

Job ID: 580-105415-1 Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-105415-1

Laboratory: Eurofins FGS, Seattle

Narrative

CASE NARRATIVE

Client: Farallon Consulting LLC **Project: BNSF Skykomish Rush NPDES** Report Number: 580-105415-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/24/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.5 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DIESEL AND MOTOR OIL RANGE ORGANICS

Samples Before GAC (580-105415-1) and HCC EFF (580-105415-2) were analyzed for diesel and motor oil range organics in accordance with Method NWTPH-Dx. The samples were prepared and analyzed on 08/26/2021.

The continuing calibration verification (CCV) associated with batch 580-366207 recovered above the upper control limit for Motor Oil (>C24-C36). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: Before GAC (580-105415-1), HCC EFF (580-105415-2) and (CCV 580-366207/26).

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-366132, so a LCS and LCSD were used instead.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-105415-1

Project/Site: BNSF Skykomish Rush NPDES

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** Detection Limit (DoD/DOE) DL DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Control of the c

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-105415-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC Lab Sample ID: 580-105415-1

Date Collected: 08/23/21 09:00 Matrix: Water

Date Received: 08/24/21 10:36

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.12		0.062		mg/L		08/26/21 09:44	08/26/21 20:28	1
Motor Oil (>C24-C36)	ND		0.092		mg/L		08/26/21 09:44	08/26/21 20:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	67		50 - 150				08/26/21 09:44	08/26/21 20:28	1

9

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-105415-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: HCC EFF Lab Sample ID: 580-105415-2 Date Collected: 08/23/21 09:00

Matrix: Water

Date Received: 08/24/21 10:36

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		08/26/21 09:44	08/26/21 20:48	1
Motor Oil (>C24-C36)	ND		0.092		mg/L		08/26/21 09:44	08/26/21 20:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	65		50 - 150				08/26/21 09:44	08/26/21 20:48	1

QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-105415-1

Project/Site: BNSF Skykomish Rush NPDES

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-366132/1-A

Matrix: Water

Matrix: Water

Analysis Batch: 366207

Analysis Batch: 366207

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 366132

MB MB Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 08/26/21 09:44 08/26/21 19:29 #2 Diesel (C10-C24) ND 0.065 mg/L Motor Oil (>C24-C36) ND 0.096 mg/L 08/26/21 09:44 08/26/21 19:29

MB MB

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac o-Terphenyl 76 50 - 150 08/26/21 09:44 08/26/21 19:29

LCS LCS

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 366132

%Rec.

Limits

Added Result Qualifier **Analyte** Unit D %Rec 0.500 50 - 120 #2 Diesel (C10-C24) 0.411 mg/L 82 Motor Oil (>C24-C36) 0.500 0.459 92 64 - 120 mg/L

Spike

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 81 50 - 150

Lab Sample ID: LCSD 580-366132/3-A

Lab Sample ID: LCS 580-366132/2-A

Matrix: Water

Analysis Batch: 366207

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 366132

LCSD LCSD RPD Spike %Rec. Result Qualifier Limits RPD Analyte Added Unit %Rec Limit #2 Diesel (C10-C24) 0.500 0.408 82 50 - 120 26 mg/L Motor Oil (>C24-C36) 0.500 0.426 85 64 - 120 mg/L 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl 78

8/27/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-105415-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC

Lab Sample ID: 580-105415-1 Date Collected: 08/23/21 09:00

Matrix: Water

Date Received: 08/24/21 10:36

ı		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	3510C			366132	08/26/21 09:44	PMS	FGS SEA
	Total/NA	Analysis	NWTPH-Dx		1	366207	08/26/21 20:28	TL1	FGS SEA

Client Sample ID: HCC EFF Lab Sample ID: 580-105415-2

Date Collected: 08/23/21 09:00 **Matrix: Water**

Date Received: 08/24/21 10:36

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			366132	08/26/21 09:44	PMS	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	366207	08/26/21 20:48	TL1	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-105415-1

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

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Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES

Lab Sample ID	Client Sample ID	Matrix	Collected	Received		
580-105415-1	Before GAC	Water	08/23/21 09:00	08/24/21 10:36		
580-105415-2	HCC EFF	Water	08/23/21 09:00	08/24/21 10:36		

Job ID: 580-105415-1

TestAmerica Seattle

Chain of Custody Record

5755	8th	Street	East

Tacoma,	WA	98424-	1317		
		2 2242	f 050	000	F0 47

phone 253.922.2310 fax 253.922.5047	Regu	ulatory Pro	ogram:	nw '	177 NPDF	ec.	Pr	CRA	Oth											00410 Chair of Odelody
Client Contact		Manager: Ar			× intol			ntact: I			<u></u>		Date	: 8-	23	-2	ì			COC No:
Farallong Consulting		425-295-08	····					ntact: 1		·			Carri							of _A COCs
975 5th Avenue Northwest			Turnaround	d Time		T		T T	T		Ť	T	Ť	<u> </u>			T		T	Sampler: TW
Issaquah, Washington		NDAR DAYS	7 7		YS	11	(Y/N) ca gel cleanup								1 1					For Lab Use Only:
(425) 295-0800 Phone	TA	AT if different fr	rom Below	5 DAY		1	z ž													Walk-in Client:
(425) 295-0850 FAX			2 weeks		,	z)	~ B		'				1							Lab Sampling:
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Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sa	NWTPH-D													Sample Specific Notes:
Before GAC-	8/23/21	900	Grab	w	2		х										\Box			***See instructions below
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Blue Ice (Wet) Dry, None Other:						4	\perp	4	$\perp \downarrow$	4	1	1		\perp	4	4	1	1	'	
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Preservation Used: 1= ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=/	1aOH; 6= ∪	<u> ther</u>	Secondary Commence	नेही हो हमा छ। ज	<u> Aleksini</u>	1	2	- 100 AV			3 808	بلب		3 49.0		0.854 E	₩ v	<u> </u>	47 3000	
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please Li Comments Section if the lab is to dispose of the sample.			des for the :	sample in	n the	34	ampie	3 Dish)OSAI ((A Tee	∌ may	/be a	sses	sea n	fsan	nples	s are	e reta	ained	d longer than 1 month)
Non-Hazard Flammable Skin Irritant	Poison		Unknov			ユ	R	Return to	o Client	<u>:</u>		✓ Disp	osal b	y Lab			Αr	rchive t	for	Months
Special Instructions/QC Requirements & Comments: 1) DxRx			ts 0.208 m	g/L, cum	ıulative), Fin	≀al Vo							lica g	et cl	eanu	ıp nı	eede	id for	r Dx
Custody/Sgals,Intact: Yes No	Custody Se									Temp.	(°C):	Obs'd	1:		Cr	on'd:			***********	Therm ID No.:
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Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-105415-1

Login Number: 105415 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Greene, Ashton R

Grouton Ground, Admidit R		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-105563-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by:

9/8/2021 9:16:55 AM
Pauline Matlock, Project Manager

(253)922-2310

pauline.matlock@eurofinset.com

Designee for

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Laboratory Job ID: 580-105563-1

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Sample Summary	11
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Case Narrative

Client: Farallon Consulting LLC
Project/Site: Skykomish HCC System

Job ID: 580-105563-1

Job ID: 580-105563-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-105563-1

Comments

No additional comments.

Receipt

The samples were received on 8/31/2021 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.1° C.

GC Semi VOA

Method NWTPH-Dx: The continuing calibration verification (CCV) associated with batch 580-367143 recovered above the upper control limit for Motor Oil (>C24-C36). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: HCC EFF-82921 (580-105563-2) and (CCV 580-367143/8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC

Project/Site: Skykomish HCC System

Job ID: 580-105563-1

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.								
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis								
%R	Percent Recovery								
CFL	Contains Free Liquid								
CFU	Colony Forming Unit								
CNF	Contains No Free Liquid								
DER	Duplicate Error Ratio (normalized absolute difference)								
Dil Fac	Dilution Factor								

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins FGS, Seattle

9/8/2021

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Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-105563-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-82921 Lab Sample ID: 580-105563-1

Date Collected: 08/29/21 18:30 Matrix: Water

Date Received: 08/31/21 12:15

Method: NWTPH-Dx - No	orthwest - Semi-Volatile	Petroleum Prod				
Analyte	Result Qualifie	er RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.30	0.062	mg/L	09/02/21 11:27	09/03/21 21:40	1
Motor Oil (>C24-C36)	0.21	0.092	mg/L	09/02/21 11:27	09/03/21 21:40	1
Surrogate	%Recovery Qualific	er Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	88	50 - 150		09/02/21 11:27	09/03/21 21:40	1

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Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-105563-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-82921 Lab Sample ID: 580-105563-2

Date Collected: 08/29/21 18:30 Matrix: Water Date Received: 08/31/21 12:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		09/07/21 14:43	09/07/21 19:10	1
Motor Oil (>C24-C36)	ND		0.092		mg/L		09/07/21 14:43	09/07/21 19:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150				09/07/21 14:43	09/07/21 19:10	1

Job ID: 580-105563-1

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-366838/1-A

Lab Sample ID: LCS 580-366838/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 367029

Analysis Batch: 367029

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 366838

	IVID IVID						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.065	mg/L		09/02/21 11:27	09/03/21 20:21	1
Motor Oil (>C24-C36)	ND	0.096	mg/L		09/02/21 11:27	09/03/21 20:21	1

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 91 50 - 150 09/02/21 11:27 09/03/21 20:21

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 366838

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
#2 Diesel (C10-C24)	0.500	0.530		mg/L		106	50 - 120	
Motor Oil (>C24-C36)	0.500	0.547		mg/L		109	64 - 120	

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 98 50 - 150

Lab Sample ID: LCSD 580-366838/3-A

Matrix: Water

Analysis Batch: 367029

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 366838

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.522		mg/L		104	50 - 120	2	26
Motor Oil (>C24-C36)	0.500	0.559		mg/L		112	64 - 120	2	24

LCSD LCSD

MB MB

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl

Lab Sample ID: MB 580-367107/1-A **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 367143

Prep Type: Total/NA

Prep Batch: 367107

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065		mg/L		09/07/21 14:43	09/07/21 18:10	1
Motor Oil (>C24-C36)	ND		0.096		mg/L		09/07/21 14:43	09/07/21 18:10	1
	МВ	MB							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac o-Terphenyl 71 50 - 150 09/07/21 14:43 09/07/21 18:10

Lab Sample ID: LCS 580-367107/2-A

Matrix: Water

Analysis Batch: 367143

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 367107

•	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
#2 Diesel (C10-C24)	 0.500	0.388		mg/L		78	50 - 120	
Motor Oil (>C24-C36)	0.500	0.506		mg/L		101	64 - 120	

Eurofins FGS, Seattle

9/8/2021

Page 7 of 13

QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-105563-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Spike

Added

0.500

0.500

LCSD LCSD

0.413

0.513

Result Qualifier

Unit

mg/L

mg/L

Lab Sample ID: LCS 580-367107/2-A

Lab Sample ID: LCSD 580-367107/3-A

Matrix: Water

Matrix: Water

#2 Diesel (C10-C24)

Motor Oil (>C24-C36)

Analyte

Analysis Batch: 367143

Analysis Batch: 367143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 367107

LCS LCS

Limits Surrogate %Recovery Qualifier o-Terphenyl 82 50 - 150

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 367107

%Rec. **RPD** RPD Limits Limit 26

D %Rec 6 83 50 - 120 103 64 - 120 2 24

LCSD LCSD

Surrogate **%Recovery Qualifier** Limits o-Terphenyl 85 50 - 150

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-105563-1 Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-82921

Lab Sample ID: 580-105563-1 Date Collected: 08/29/21 18:30

Matrix: Water

Date Received: 08/31/21 12:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			366838	09/02/21 11:27	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	367029	09/03/21 21:40	ADB	FGS SEA

Lab Sample ID: 580-105563-2 Client Sample ID: HCC EFF-82921

Matrix: Water Date Collected: 08/29/21 18:30

Date Received: 08/31/21 12:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			367107	09/07/21 14:43	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	367143	09/07/21 19:10	JSM	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Eurofins FGS, Seattle

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-105563-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 580-105563-1
 Before GAC-82921
 Water
 08/29/21 18:30
 08/31/21 12:15

 580-105563-2
 HCC EFF-82921
 Water
 08/29/21 18:30
 08/31/21 12:15

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Job ID: 580-105563-1

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Therm. ID: TR	SCor: 1	1 º Unc: 13	_
Cooler Dsc:	(03)	FedEx:	
Packing: <u>bu</u>	<u> </u>	UPS:	
Cust. Seal: Yes	No X	Lab Court	

580-105563 Chain of Custody						

nain of Custody Record

TestAm	erica

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Farallong Consulting	Project Manager: Amanda Meugniot Tel/Fax: 425-295-0800					Site Contact: Matt Bowser					ate:	8-2	9 -5	1)			C No:			_		
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SSIDIO Hazard Identification						Sai		Dieno						116	4							
e any samples from a listed EPA Hazardous Waste? Please mments Section if the lab is to dispose of the sample.	List any EPA	Waste Cod	es for the s	ample in	the] "	IIIpio	Diaho	Sai (A	1 100	тау ов) ass	8586 0	ı ir sa	mple:	s are i	retaine	ed longe	r than 1 m	ionth)		7
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Non-Hazard Flammable Skin Irritant	Poison B		Unknov	vn			Ret	um to C	lient		√ Di	iennea	hv I ah	,	Г	Archi	ua far		Mantha			
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Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-105563-1

Login Number: 105563 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Blankinship, Tom X

Creator. Diankinship, Tolli A		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Eurofins FGS, Seattle

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-105704-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

eurofins 💸

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 9/14/2021 1:38:18 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

.....LINKS

Review your project results through

Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Laboratory Job ID: 580-105704-1

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-105704-1

Job ID: 580-105704-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-105704-1

Comments

No additional comments.

Receipt

The samples were received on 9/8/2021 12:02 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.9° C.

Receipt Exceptions

The chain of custody requests metals analysis on sample HCC EFF-9721 (580-105704-2) but a nitric preserved container was not received. The samples are not logged in for metals analysis.

C Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-367489. Laboratory control sample/laboratory control sample duplicate were created and substituted for MS/MSD/DUP.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-105704-1

Project/Site: Skykomish HCC System

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** Detection Limit (DoD/DOE) DL DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)
LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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9/14/2021

Client: Farallon Consulting LLC

Job ID: 580-105704-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-9721 Lab Sample ID: 580-105704-1

Date Collected: 09/07/21 09:30 Matrix: Water

Date Received: 09/08/21 12:02

Method: NWTPH-Dx - No	orthwest - Semi-Volatile P	etroleum Prod	ucts (GC)			
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.27	0.062	mg/L	09/10/21 11:07	09/11/21 03:39	1
Motor Oil (>C24-C36)	0.19	0.092	mg/L	09/10/21 11:07	09/11/21 03:39	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	63	50 - 150		09/10/21 11:07	09/11/21 03:39	1

7

Client: Farallon Consulting LLC

Job ID: 580-105704-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-9721 Lab Sample ID: 580-105704-2

Date Collected: 09/07/21 09:30 Matrix: Water

Date Received: 09/08/21 12:02

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	mg/L		09/10/21 11:07	09/11/21 03:59	1
Motor Oil (>C24-C36)	ND		0.092	mg/L		09/10/21 11:07	09/11/21 03:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenvl	69		50 - 150			09/10/21 11:07	09/11/21 03:59	

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QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-105704-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample	ID: MB	580-367489/1-A	
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Matrix: Water

Analysis Batch: 367549

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 367489

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065		mg/L		09/10/21 11:07	09/11/21 02:39	1
Motor Oil (>C24-C36)	ND		0.096		mg/L		09/10/21 11:07	09/11/21 02:39	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenvl	<u></u>		50 - 150				09/10/21 11:07	09/11/21 02:39	1

Lab Sample ID: LCS 580-367489/2-A

Matrix: Water

Motor Oil (>C24-C36)

Analysis Batch: 367549

LCS LCS Spike Added Result Qualifier **Analyte** Unit D %Rec #2 Diesel (C10-C24) 0.500 0.444 mg/L 89

0.500

Spike

Added

0.483

LCSD LCSD

0.421

Result Qualifier

LCS LCS Surrogate %Recovery Qualifier Limits o-Terphenyl 83 50 - 150

Lab Sample ID: LCSD 580-367489/3-A

Matrix: Water

Analyte

Analysis Batch: 367549

#2 Diesel (C10-C24)		0.500
Motor Oil (>C24-C36)		0.500
	LCSD LCSD	

Surrogate %Recovery Qualifier Limits 85 50 - 150 o-Terphenyl

Client Sample ID: Lab Control Sample

97

Prep Type: Total/NA

Prep Batch: 367489 %Rec.

Limits 50 - 120 64 - 120

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 367489

24

RPD %Rec. Limits RPD Limit %Rec 84 50 - 120 5 26

0.471 94 64 - 120 mg/L 3

mg/L

Unit

mg/L

9/14/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-105704-1

Project/Site: Skykomish HCC System

Date Received: 09/08/21 12:02

Client Sample ID: Before GAC-9721

Lab Sample ID: 580-105704-1 Date Collected: 09/07/21 09:30

Matrix: Water

Batch Batch Dilution Batch Prepared **Prep Type** Method **Factor** Number or Analyzed Analyst Type Run Lab Total/NA Prep 3510C 367489 09/10/21 11:07 JHR FGS SEA Total/NA NWTPH-Dx 367549 09/11/21 03:39 TL1 FGS SEA Analysis 1

Client Sample ID: HCC EFF-9721 Lab Sample ID: 580-105704-2

Date Collected: 09/07/21 09:30 **Matrix: Water**

Date Received: 09/08/21 12:02

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			367489	09/10/21 11:07	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	367549	09/11/21 03:59	TL1	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-105704-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date	
Washington	State	C788	07-13-22	

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-105704-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-105704-1	Before GAC-9721	Water	09/07/21 09:30	09/08/21 12:02
580-105704-2	HCC EFF-9721	Water	09/07/21 09:30	09/08/21 12:02

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TestAmerica Seattle

Therm. ID:_	A1 Cor: 1.	. 9 ° Unc: 1,4 °	
Cooler Dsc:		FedEx:	
Packing:	100/D		
Cust. Seal: \(\sum_{\text{S}} \)	iesNo	Lab Cour: 🗶	

Chain of Custody Record

TestAn	nerica
NAME OF A COMPANY OF A COMPANY	CONTRACTOR AND AND CONTRACTOR

5755 8th Street East Cust. Seal: Yes_No_	- Lahi	our: 🗶																103177111	コロレム
Blue Ice, Wet, Dry, None	Other																	THE LEADER IN ENVIRONS	JENTAL TESTING
Tacoma, WA 98424-1317 phone 253.922.2310 fax 253.922.504.		iatory Fit	yram:	DW [NPDES	s [RCF	RA.	Othe	r:					10.	570	4	TestAmerica Labor	ratories, Inc.
Client Contact	Project M	Project Manager: Amanda Meugniot Si										ate: 9-7-2021			l		COC No:		
Farallong Consulting	-	25-295-08		<u> </u>		Lab Contact: Nathan Lewis Carr						Carrier:						COCs	
975 5th Avenue Northwest	1	Analysis T	urnaround	d Time		П	NWTPH-Dx w/o silica gel cleanup			T			П	ТТ	T	TT		Sampler: TW	
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	Sample	Sample	Type			ě	Ė	₹											
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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=	IaOH: 6= C	ther		Sugare Co			2	4		1			NA III	1 100		NAME OF	YAN		─
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please Li			doo for the	aamnia i	n tha	Sa	ample	e Dis	posal (A fee	may	be ass	essed	if san	ples	are reta	ined	l longer than 1 mont	
Comments Section if the lab is to dispose of the sample.	Stally EFA	Waste Co	aes io: tile	sanipie i	ii iii c														580-105704 (
Non-Hazard Flammable Skin Irritant	Poison	В	Unkno	วพก		_	R	eturn	to Client		71	Disnosa	l by Lab		\Box	Archive f	or	Months =	270
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Login Sample Receipt Checklist

Client: Farallon Consulting LLC Job Number: 580-105704-1

Login Number: 105704 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Blankinship, Tom X

Creator. Diankinship, Toni A		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-105902-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

eurofins

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

hacy Dutton

Authorized for release by: 9/21/2021 2:23:12 PM Tracy Dutton, Client Relations Manager (253)380-6574 Tracy.Dutton@Eurofinset.com

Designee for

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Laboratory Job ID: 580-105902-1

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-105902-1

Job ID: 580-105902-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-105902-1

Comments

No additional comments.

Receipt

The samples were received on 9/16/2021 12:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.4° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-368035, so an LCS and an LCSD were created and used instead.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-105902-1

Project/Site: Skykomish HCC System

Glossary

DLC

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** Detection Limit (DoD/DOE) DL DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

EDL Estimated Detection Limit (Dioxin)
LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

Decision Level Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Client: Farallon Consulting LLC

Job ID: 580-105902-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-091521 Lab Sample ID: 580-105902-1

Date Collected: 09/15/21 15:17 Matrix: Water

Date Received: 09/16/21 12:50

Method: NWTPH-Dx - No	orthwest - Semi-Vola	atile Peti	roleum Prodi	ucts (GC	C)				
Analyte	Result Qu	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.28		0.062		mg/L		09/16/21 14:23	09/17/21 18:51	1
Motor Oil (>C24-C36)	0.19		0.092		mg/L		09/16/21 14:23	09/17/21 18:51	1
Surrogate	%Recovery Qu	ualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	74		50 - 150				09/16/21 14:23	09/17/21 18:51	1

Client: Farallon Consulting LLC Job ID: 580-105902-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-091521 Lab Sample ID: 580-105902-2

Date Collected: 09/15/21 15:23 Matrix: Water

Date Received: 09/16/21 12:50

Method: NWTPH-Dx - No	orthwest - Semi-Vola	atile Petroleum	Produ	ucts (GC	;)				
Analyte	Result Qu	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	0	.062		mg/L		09/16/21 14:23	09/17/21 19:11	1
Motor Oil (>C24-C36)	ND	0	.091		mg/L		09/16/21 14:23	09/17/21 19:11	1
Surrogate	%Recovery Qu	ualifier Limi	ts				Prepared	Analyzed	Dil Fac
o-Terphenyl	77	50 - 1	50				09/16/21 14:23	09/17/21 19:11	1

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QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-105902-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

88

Lab Sample ID: MB 580-368035/1-A

Matrix: Water

Analysis Batch: 368094

Client Sample ID: Method Blank

09/16/21 14:23 09/17/21 17:52

Client Sample ID: Lab Control Sample

%Rec.

Limits

50 - 120

64 - 120

Prep Type: Total/NA

Prep Batch: 368035

Prep Type: Total/NA **Prep Batch: 368035**

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065		mg/L		09/16/21 14:23	09/17/21 17:52	1
Motor Oil (>C24-C36)	ND		0.096		mg/L		09/16/21 14:23	09/17/21 17:52	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

50 - 150

Spike

Added

0.500

0.500

LCS LCS

0.525

0.524

Result Qualifier

Lab Sample ID: LCS 580-368035/2-A

o-Terphenyl

Matrix: V	<i>l</i> ater	
Analysis	Batch: 368094	

Analysis	Batcn:	368094
Amalusta		

#2 Diesel (C10-C24) Motor Oil (>C24-C36)

Surrogate %Recovery Qualifier o-Terphenyl 86

Lab Sample ID: LCSD 580-368035/3-A

Matrix: Water

Analysis Batch: 368094

Analyte #2 Diesel (C10-C24) Motor Oil (>C24-C36)

Surrogate o-Terphenyl LCS LCS Limits 50 - 150

Client Sample ID: Lab Control Sample Dup

D %Rec

105

105

Prep Type: Total/NA Prep Batch: 368035

LCSD LCSD RPD Spike %Rec. Result Qualifier Limits RPD Added Unit %Rec Limit 0.500 0.459 92 50 - 120 13 26 mg/L 64 - 120 0.500 0.476 95 mg/L 10 24

Unit

mg/L

mg/L

LCSD LCSD %Recovery Qualifier Limits 50 - 150 80

Eurofins FGS, Seattle

9/21/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-105902-1 Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-091521 Lab Sample ID: 580-105902-1 Date Collected: 09/15/21 15:17

Matrix: Water

Date Received: 09/16/21 12:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			368035	09/16/21 14:23	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	368094	09/17/21 18:51	W1T	FGS SEA

Client Sample ID: HCC EFF-091521 Lab Sample ID: 580-105902-2

Date Collected: 09/15/21 15:23 **Matrix: Water**

Date Received: 09/16/21 12:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			368035	09/16/21 14:23	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	368094	09/17/21 19:11	W1T	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-105902-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date		
Washington	State	C788	07-13-22		

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-105902-1

Lab Sample ID	Client Sample ID	Matrix	Collected Received
580-105902-1	Before GAC-091521	Water	09/15/21 15:17 09/16/21 12:50
580-105902-2	HCC EFF-091521	Water	09/15/21 15:23 09/16/21 12:50

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TestAmerica Seattle

5755 8th Street East



Chain of Custody Record

Tacoma, WA 98424-1317					T NODEC		∃ nen		O46					1(059	TestAmeric			Inc
phone 253.922.2310 fax 253.922.5047		Manager: Ar		DW .				act: Mat				Date: C	عزاد	1 7	V ~ -	COC No: 1	/G EUDO:	atomos,	7.10.
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Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-105902-1

Login Number: 105902 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Blankinship, Tom X

Creator: Biankinsnip, Iom X		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-106108-1

Client Project/Site: BNSF Skykomish Semi Annual

Sampling Event: Skykomish HCC System

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Peter Kingston

M. Elains Walker

Authorized for release by: 10/13/2021 5:42:09 PM Elaine Walker, Project Manager II (253)248-4972

m.elaine.walker@eurofinset.com

Designee for

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Semi Annual Laboratory Job ID: 580-106108-1

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Case Narrative

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Semi Annual

Job ID: 580-106108-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-106108-1

Receipt

The samples were received on 9/23/2021 4:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 9 coolers at receipt time were -1.6° C, -1.1° C, -0.3° C, 1.6° C, 1.8° C, 2.6° C, 4.1° C, 4.2° C and 4.9° C.

Receipt Exceptions

Receipt Exceptions

One of the two container labels for each of the following samples did not match the information listed on the Chain-of-Custody (COC) and the other label: 5-W-55-092221 (580-106108-22), 5-W-180-092221 (580-106108-23)

GC Semi VOA

Method NWTPH-Dx: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-369025 and analytical batch 580-369171 recovered outside control limits for the following analytes: Motor Oil (>C24-C36). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method NWTPH-Dx: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-369139 and analytical batch 580-369290 recovered outside control limits for the following analytes: #2 Diesel (C10-C24) and Motor Oil (>C24-C36). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method NWTPH-Dx: Surrogate recovery for the following samples were outside control limits: GW-3-092221 (580-106108-18) and S1-BU-092321 (580-106108-48). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Dx: The following samples were re-prepared outside of preparation holding time due to quantity of analytes present in laboratory control samples: 1C-W-7-092221 (580-106108-6), GW-4-092221 (580-106108-7), 2A-W-9-092221 (580-106108-10), 2A-W-42-092221 (580-106108-12), MW-4-092221 (580-106108-19), 2A-W-410-092221 (580-106108-24), GW-30-092221 (580-106108-25) and 5-W-19-092121 (580-106108-27). Both sets of data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 580-106108-1

Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Qualifiers

Qualifier

GC Semi VOA

LCS and/or LCSD is outside acceptance limits, high biased. Н Sample was prepped or analyzed beyond the specified holding time

S1-Surrogate recovery exceeds control limits, low biased.

Qualifier Description

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL Minimum Level (Dioxin) ML MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

Presumptive **PRES Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) **TEF TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins FGS, Seattle

10/13/2021

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/22/21 09:25 Matrix: Water

Date Received: 09/23/21 16:50

Method: NWTPH-Dx - No	rthwest - Semi-Vola	atile Peti	oleum Prod	ucts (GC	C)				
Analyte	Result Qu	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.44		0.062	0.062	mg/L		10/05/21 11:17	10/06/21 16:55	1
Motor Oil (>C24-C36)	0.36		0.091	0.091	mg/L		10/05/21 11:17	10/06/21 16:55	1
Surrogate	%Recovery Qu	ualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150				10/05/21 11:17	10/06/21 16:55	1

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: 5-W-18-092221 Lab Sample ID: 580-106108-2

Date Collected: 09/22/21 10:10 Matrix: Water

Date Received: 09/23/21 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		10/05/21 11:17	10/06/21 17:15	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		10/05/21 11:17	10/06/21 17:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	70		50 - 150				10/05/21 11:17	10/06/21 17:15	1

Client: Farallon Consulting LLC

Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: 5-W-43-092221 Lab Sample ID: 580-106108-3

Date Collected: 09/22/21 10:55 Matrix: Water

Date Received: 09/23/21 16:50

Method: NWTPH-Dx - No Analyte		olatile Pet Qualifier	roleum Prod RL	ucts (G(•	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	Qualifici	0.062	0.062		=	10/05/21 11:17		1
Motor Oil (>C24-C36)	ND		0.091	0.091	U			10/06/21 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	67		50 - 150				10/05/21 11:17	10/06/21 17:56	1

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/22/21 11:40 Matrix: Water

Date Received: 09/23/21 16:50

Method: NWTPH-Dx - No	orthwest - Semi-V	olatile Pet	roleum Prod	ucts (G0	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*+	0.062	0.062	mg/L		09/29/21 10:56	10/07/21 12:07	1
Motor Oil (>C24-C36)	ND	*+	0.091	0.091	mg/L		09/29/21 10:56	10/07/21 12:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	83		50 - 150				09/29/21 10:56	10/07/21 12:07	1

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: 1B-W-23-092221 Lab Sample ID: 580-106108-5

Date Collected: 09/22/21 12:05 Matrix: Water

Date Received: 09/23/21 16:50

Method: NWTPH-Dx - No	orthwest - Semi-V	olatile Pet	roleum Prod	ucts (G0	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*+	0.062	0.062	mg/L		09/29/21 10:56	10/01/21 00:01	1
Motor Oil (>C24-C36)	ND	*+	0.092	0.092	mg/L		09/29/21 10:56	10/01/21 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	76		50 - 150				09/29/21 10:56	10/01/21 00:01	1

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Surrogate

o-Terphenyl

Client Sample ID: 1C-W-7-092221 Lab Sample ID: 580-106108-6

Date Collected: 09/22/21 15:00 Matrix: Water Date Received: 09/23/21 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.096	*+	0.062	0.062	mg/L		09/29/21 10:56	10/01/21 00:21	1
Motor Oil (>C24-C36)	0.091	*+	0.091	0.091	mg/L		09/29/21 10:56	10/01/21 00:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	83		50 - 150				09/29/21 10:56	10/01/21 00:21	1

Limits

50 - 150

%Recovery Qualifier

74

Dil Fac

Prepared

10/08/21 10:18 10/08/21 19:51

Analyzed

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Surrogate

o-Terphenyl

Client Sample ID: GW-4-092221

%Recovery Qualifier

74

Lab Sample ID: 580-106108-7 Date Collected: 09/22/21 15:55

Matrix: Water Date Received: 09/23/21 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*+	0.062	0.062	mg/L		09/29/21 10:56	10/01/21 00:40	1
Motor Oil (>C24-C36)	0.11	*+	0.091	0.091	mg/L		09/29/21 10:56	10/01/21 00:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	76		50 - 150				09/29/21 10:56	10/01/21 00:40	1

Limits

50 - 150

10/13/2021

Dil Fac

Analyzed

Prepared

10/08/21 10:18 10/08/21 20:11

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/22/21 15:10 Matrix: Water

Date Received: 09/23/21 16:50

Method: NWTPH-Dx - No	orthwest - Semi-V	olatile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*+	0.062	0.062	mg/L		09/29/21 10:56	10/01/21 01:00	1
Motor Oil (>C24-C36)	ND	*+	0.092	0.092	mg/L		09/29/21 10:56	10/01/21 01:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	74		50 - 150				09/29/21 10:56	10/01/21 01:00	1

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: MW-555-092221 Lab Sample ID: 580-106108-9

Date Collected: 09/22/21 16:45 Matrix: Water

Date Received: 09/23/21 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*+	0.062	0.062	mg/L		09/29/21 10:56	10/01/21 01:20	1
Motor Oil (>C24-C36)	ND	*+	0.091	0.091	mg/L		09/29/21 10:56	10/01/21 01:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150				09/29/21 10:56	10/01/21 01:20	1

9

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/22/21 15:36 Matrix: Water

Date Received: 09/23/21 16:50

Surrogate

o-Terphenyl

		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
0.22	*+	0.062	0.062	mg/L		09/29/21 10:56	10/01/21 01:39	1
0.42	*+	0.091	0.091	mg/L		09/29/21 10:56	10/01/21 01:39	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
78		50 - 150				09/29/21 10:56	10/01/21 01:39	1
	%Recovery	0.42 *+ %Recovery 78 Qualifier	%Recovery Qualifier Limits	%Recovery Qualifier Limits	%Recovery Qualifier Limits	%Recovery Qualifier Limits	%Recovery Qualifier Limits Prepared	%Recovery Qualifier Limits Prepared Analyzed

Limits

50 - 150

%Recovery Qualifier

87

10/13/2021

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Prepared

10/08/21 10:18 10/08/21 20:31

Analyzed

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/22/21 14:17 Matrix: Water

Date Received: 09/23/21 16:50

Method: NWTPH-Dx - No	orthwest - Semi-V	olatile Pet	roleum Prod	ucts (G0	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*+	0.062	0.062	mg/L		09/29/21 10:56	10/01/21 02:19	1
Motor Oil (>C24-C36)	ND	*+	0.091	0.091	mg/L		09/29/21 10:56	10/01/21 02:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	84		50 - 150				09/29/21 10:56	10/01/21 02:19	1

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/22/21 13:22
Date Received: 09/23/21 16:50

Method: NWTPH-Dx - Northy	rest - Semi-V	olatile Pet	i Oleuili i Tou	ucis (G	-,				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.14	*+	0.062	0.062	mg/L		09/29/21 10:56	10/01/21 02:38	1
Motor Oil (>C24-C36)	0.13	*+	0.091	0.091	mg/L		09/29/21 10:56	10/01/21 02:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	84		50 - 150				09/29/21 10:56	10/01/21 02:38	1
o-Terphenyl Method: NWTPH-Dx - Northy Analyte	vest - Semi-V	olatile Pet Qualifier		•	C) - RE Unit	D	09/29/21 10:56 Prepared	10/01/21 02:38 Analyzed	1 Dil Fac
 Method: NWTPH-Dx - Northv	vest - Semi-V	Qualifier	roleum Prod	•	Unit	<u>D</u>			Dil Fac
Method: NWTPH-Dx - Northy Analyte	vest - Semi-V Result	Qualifier H	roleum Prod	MDL	Unit mg/L	<u>D</u>	Prepared	Analyzed	1 Dil Fac 1
Method: NWTPH-Dx - Northy Analyte #2 Diesel (C10-C24)	/est - Semi-V Result 0.18	Qualifier H H	roleum Prod RL 0.062	MDL 0.062	Unit mg/L	<u> </u>	Prepared 10/08/21 10:18	Analyzed 10/08/21 20:51	Dil Fac 1 1 1 Dil Fac

10/13/2021

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/22/21 11:59 East Sample 15: 666 1661 16

Date Received: 09/23/21 16:50

Method: NWTPH-Dx - No	rthwest - Semi-Vola	atile Petr	oleum Prod	ucts (GC	C)				
Analyte	Result Qu	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.50		0.062	0.062	mg/L		10/05/21 11:17	10/06/21 18:16	1
Motor Oil (>C24-C36)	0.28		0.092	0.092	mg/L		10/05/21 11:17	10/06/21 18:16	1
Surrogate	%Recovery Qu	ualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150				10/05/21 11:17	10/06/21 18:16	1

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.097	0.062	0.062	mg/L		10/05/21 11:17	10/06/21 15:15	1
Motor Oil (>C24-C36)	ND	0.092	0.092	mg/L		10/05/21 11:17	10/06/21 15:15	1
Surrogate	%Recovery Qualifier	Limits				Prepared	Analyzed	Dil Fac
Surrogate o-Terphenyl	————————————————————————————————————	Limits 50 - 150				Prepared 10/05/21 11:17		

10/13/2021

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: GW-1-092221 Lab Sample ID: 580-106108-14

Date Collected: 09/22/21 11:06 East Sample 15: 666 1661 14

Date Received: 09/23/21 16:50

Method: NWTPH-Dx - No	orthwest - Semi-V	olatile Pet	roleum Prod	ucts (G0	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*+	0.062	0.062	mg/L		09/29/21 10:56	10/01/21 02:58	1
Motor Oil (>C24-C36)	ND	*+	0.092	0.092	mg/L		09/29/21 10:56	10/01/21 02:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	73		50 - 150				09/29/21 10:56	10/01/21 02:58	1

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/22/21 09:40 Matrix: Water Date Received: 09/23/21 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.90	*+	0.062	0.062	mg/L		09/29/21 10:56	10/01/21 03:18	1
#2 Diesel (C10-C24)	0.85	*+	0.062	0.062	mg/L		09/29/21 10:56	10/07/21 13:26	1
Motor Oil (>C24-C36)	1.2	*+	0.092	0.092	mg/L		09/29/21 10:56	10/01/21 03:18	1
Motor Oil (>C24-C36)	1.4	*+	0.092	0.092	mg/L		09/29/21 10:56	10/07/21 13:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	79		50 - 150				09/29/21 10:56	10/01/21 03:18	1
o-Terphenyl	76		50 - 150				09/29/21 10:56	10/07/21 13:26	1

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: EW-1-092221 Lab Sample ID: 580-106108-16

Date Collected: 09/22/21 10:27

Matrix: Water

Method: NWTPH-Dx - No	orthwest - Semi-V	vest - Semi-Volatile Petroleum Products (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*+	0.062	0.062	mg/L		09/29/21 10:56	10/01/21 03:37	1
Motor Oil (>C24-C36)	ND	*+	0.092	0.092	mg/L		09/29/21 10:56	10/01/21 03:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150				09/29/21 10:56	10/01/21 03:37	1

Client: Farallon Consulting LLC

Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/22/21 14:38 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*+	0.062	0.062	mg/L		09/29/21 10:56	10/01/21 03:57	1
Motor Oil (>C24-C36)	ND	*+	0.092	0.092	mg/L		09/29/21 10:56	10/01/21 03:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenvl	77		50 - 150				09/29/21 10:56	10/01/21 03:57	1

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: GW-3-092221 Lab Sample ID: 580-106108-18

Date Collected: 09/22/21 12:36 Matrix: Water

Date Received: 09/23/21 16:50

Method: NWTPH-Dx - No	orthwest - Semi-V	olatile Pet	roleum Prod	ucts (G0	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.12		0.063	0.063	mg/L		10/05/21 11:17	10/06/21 18:36	1
Motor Oil (>C24-C36)	0.52		0.092	0.092	mg/L		10/05/21 11:17	10/06/21 18:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	42	S1-	50 - 150				10/05/21 11:17	10/06/21 18:36	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.063	0.063	mg/L		10/05/21 11:17	10/06/21 15:35	1
Motor Oil (>C24-C36)	0.37		0.092	0.092	mg/L		10/05/21 11:17	10/06/21 15:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	42	S1-	50 - 150				10/05/21 11:17	10/06/21 15:35	

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: MW-4-092221 Lab Sample ID: 580-106108-19

. Matrix: Water

10/08/21 10:18 10/08/21 21:12

Date Collected: 09/22/21 15:41 Date Received: 09/23/21 16:50

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.12	*+	0.062	0.062	mg/L		09/29/21 10:56	10/01/21 04:17	1
Motor Oil (>C24-C36)	0.29	*+	0.092	0.092	mg/L		09/29/21 10:56	10/01/21 04:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	87		50 - 150				09/29/21 10:56	10/01/21 04:17	1
Method: NWTPH-Dx - No	orthwest - Semi-V	olatile Pet	roleum Prod	ucts (GC	C) - RE				
		olatile Pet Qualifier	roleum Prod RL	ucts (GC MDL	•	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier		•	Únit	<u>D</u>	Prepared 10/08/21 10:18	Analyzed 10/08/21 21:12	Dil Fac
Method: NWTPH-Dx - No Analyte #2 Diesel (C10-C24) Motor Oil (>C24-C36)	Result	Qualifier H	RL	MDL	Unit mg/L	<u>D</u>			Dil Fac

50 - 150

76

10/13/2021

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: GW-2-092221 Lab Sample ID: 580-106108-20

Date Collected: 09/22/21 11:12 Matrix: Water

Date Received: 09/23/21 16:50

Method: NWTPH-Dx - No	orthwest - Semi-V	olatile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*+	0.062	0.062	mg/L		09/29/21 10:56	10/01/21 04:37	1
Motor Oil (>C24-C36)	ND	*+	0.092	0.092	mg/L		09/29/21 10:56	10/01/21 04:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150				09/29/21 10:56	10/01/21 04:37	1

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/22/21 10:24 Matrix: Water

Date Collected: 09/22/21 10:24 Matrix: wate Date Received: 09/23/21 16:50

Method: NWTPH-Dx - No	orthwest - Semi-Volatile P	vest - Semi-Volatile Petroleum Products (GC)						
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.062	0.062	mg/L		09/30/21 11:02	10/04/21 18:02	1
Motor Oil (>C24-C36)	ND	0.092	0.092	mg/L		09/30/21 11:02	10/04/21 18:02	1
Surrogate	%Recovery Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	60	50 - 150				09/30/21 11:02	10/04/21 18:02	1

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/22/21 09:34 Date Received: 09/23/21 16:50

Matrix: Water

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result Qua	alifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.063	0.063	mg/L		09/30/21 11:02	10/04/21 18:22	1
Motor Oil (>C24-C36)	ND	0.092	0.092	mg/L		09/30/21 11:02	10/04/21 18:22	1
Surrogate	%Recovery Qua	alifier Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	70	50 - 150				09/30/21 11:02	10/04/21 18:22	1

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/22/21 10:10 Matrix: Water

Date Received: 09/23/21 16:50

Method: NWTPH-Dx - No	orthwest - Semi-Vola	atile Petro	oleum Prod	ucts (GC	C)				
Analyte	Result Qu	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.062	0.062	mg/L		09/30/21 11:02	10/04/21 18:42	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		09/30/21 11:02	10/04/21 18:42	1
Surrogate	%Recovery Qu	ualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	70		50 - 150				09/30/21 11:02	10/04/21 18:42	1

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/22/21 12:10 Matrix: Water Date Received: 09/23/21 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.30	*+	0.062	0.062	mg/L		09/29/21 10:56	10/01/21 04:56	1
Motor Oil (>C24-C36)	0.24	*+	0.092	0.092	mg/L		09/29/21 10:56	10/01/21 04:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150				09/29/21 10:56	10/01/21 04:56	1

Method: NWTPH-Dx - No	rthwest - Semi-V	olatile Pet	roleum Prod	ucts (GC	C) - RE				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.33	H	0.062	0.062	mg/L		10/08/21 10:18	10/08/21 21:32	1
Motor Oil (>C24-C36)	0.21	Н	0.092	0.092	mg/L		10/08/21 10:18	10/08/21 21:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150				10/08/21 10:18	10/08/21 21:32	1

10/13/2021

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: GW-30-092221 Lab Sample ID: 580-106108-25

Date Collected: 09/22/21 12:36 **Matrix: Water**

Date Received: 09/23/21 16:50

Surrogate

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*+	0.062	0.062	mg/L		09/29/21 10:56	10/01/21 05:16	1
Motor Oil (>C24-C36)	0.14	*+	0.092	0.092	mg/L		09/29/21 10:56	10/01/21 05:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150				09/29/21 10:56	10/01/21 05:16	1

Limits

50 - 150

%Recovery Qualifier

71

Dil Fac

Prepared

<u>10/08/21 10:18</u> <u>10/08/21 21:52</u>

Analyzed

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Received: 09/23/21 16:50

Method: NWTPH-Dx - No	orthwest - Semi-V	olatile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*+	0.062	0.062	mg/L		09/29/21 10:56	10/01/21 05:55	1
Motor Oil (>C24-C36)	ND	*+	0.092	0.092	mg/L		09/29/21 10:56	10/01/21 05:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	71		50 - 150				09/29/21 10:56	10/01/21 05:55	1

8

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: 5-W-19-092121 Lab Sample ID: 580-106108-27

Date Collected: 09/21/21 16:30 Matrix: Water

Date Received: 09/23/21 16:50

Surrogate

o-Terphenyl

Method: NWTPH-Dx - North	west - Semi-V	olatile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*+	0.062	0.062	mg/L		09/29/21 10:56	10/01/21 06:15	1
Motor Oil (>C24-C36)	0.096	*+	0.091	0.091	mg/L		09/29/21 10:56	10/01/21 06:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	72		50 - 150				09/29/21 10:56	10/01/21 06:15	1
_ Method: NWTPH-Dx - North	west - Semi-V	olatile Pet	roleum Prod	ucts (G0	C) - RE				
Analyte		Qualifier	RL	MDL	•	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND	H	0.091	0.091	ma/L		10/08/21 10:18	10/08/21 22:32	1

Limits

50 - 150

%Recovery Qualifier

66

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10

10

Dil Fac

Analyzed

<u>10/08/21 10:18</u> <u>10/08/21 22:32</u>

Prepared

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: 5-W-17-092121 Lab Sample ID: 580-106108-28

Date Collected: 09/21/21 16:50 Matrix: Water

Date Received: 09/23/21 16:50

Method: NWTPH-Dx - No	orthwest - Semi-V	olatile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	*+	0.062	0.062	mg/L		09/29/21 10:56	10/01/21 06:35	1
Motor Oil (>C24-C36)	ND	*+	0.091	0.091	mg/L		09/29/21 10:56	10/01/21 06:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	66		50 - 150				09/29/21 10:56	10/01/21 06:35	1

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: S1-AU-092321 Lab Sample ID: 580-106108-29

Date Collected: 09/23/21 08:45 Matrix: Water

Date Received: 09/23/21 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/30/21 11:02	10/04/21 19:02	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		09/30/21 11:02	10/04/21 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	63		50 - 150				09/30/21 11:02	10/04/21 19:02	1

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: S1-AD-092321 Lab Sample ID: 580-106108-30

Date Collected: 09/23/21 08:45 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/30/21 11:02	10/04/21 19:22	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		09/30/21 11:02	10/04/21 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	63		50 - 150				09/30/21 11:02	10/04/21 19:22	1

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: S2-AD-092321 Lab Sample ID: 580-106108-31

Date Collected: 09/23/21 09:35 **Matrix: Water**

Method: NWTPH-Dx - No	orthwest - Semi-Volatile I	Petroleum Prod	ducts (G0	C)				
Analyte	Result Qualifie	r RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.062	0.062	mg/L		09/30/21 11:02	10/04/21 19:41	1
Motor Oil (>C24-C36)	ND	0.091	0.091	mg/L		09/30/21 11:02	10/04/21 19:41	1
Surrogate	%Recovery Qualifie	r Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	66	50 - 150				09/30/21 11:02	10/04/21 19:41	1

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/23/21 09:35 Matrix: Water

Date Collected: 09/23/21 09:35 Matrix: wate Date Received: 09/23/21 16:50

Method: NWTPH-Dx - No	orthwest - Semi-Volatile P	etroleum Prod	ucts (GC	C)				
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.062	0.062	mg/L		09/30/21 11:02	10/04/21 20:01	1
Motor Oil (>C24-C36)	ND	0.092	0.092	mg/L		09/30/21 11:02	10/04/21 20:01	1
Surrogate	%Recovery Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	67	50 - 150				09/30/21 11:02	10/04/21 20:01	1

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Client: Farallon Consulting LLC

Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: S3-AD-092321 Lab Sample ID: 580-106108-33

Date Collected: 09/23/21 10:30 Matrix: Water

Date Received: 09/23/21 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		09/30/21 11:02	10/04/21 20:21	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		09/30/21 11:02	10/04/21 20:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	66		50 - 150				09/30/21 11:02	10/04/21 20:21	1

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/23/21 10:30 Matrix: Water

Date Received: 09/23/21 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		10/05/21 11:17	10/06/21 18:56	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		10/05/21 11:17	10/06/21 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	69		50 - 150				10/05/21 11:17	10/06/21 18:56	1

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/23/21 11:25

Matrix: Water

Method: NWTPH-Dx - No				•	•	_	Duran and	A	D!! E
Analyte	Result	Qualifier	RL	MDL	Unit	ט	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		10/05/21 11:17	10/06/21 19:16	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		10/05/21 11:17	10/06/21 19:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	69		50 - 150				10/05/21 11:17	10/06/21 19:16	1

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/23/21 11:25

Matrix: Water

Date Received: 09/23/21 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		10/05/21 11:17	10/06/21 19:36	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		10/05/21 11:17	10/06/21 19:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	77		50 - 150				10/05/21 11:17	10/06/21 19:36	1

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/23/21 12:25 Matrix: Water

Date Collected: 09/23/21 12:25 Matrix: Wat Date Received: 09/23/21 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		10/05/21 11:17	10/06/21 19:56	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		10/05/21 11:17	10/06/21 19:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	59		50 - 150				10/05/21 11:17	10/06/21 19:56	

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/23/21 12:25 Matrix: Water

Date Received: 09/23/21 16:50

Method: NWTPH-Dx - No	orthwest - Semi-Vo	latile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.062	0.062	mg/L		10/05/21 11:17	10/06/21 20:16	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		10/05/21 11:17	10/06/21 20:16	1
Surrogate	%Recovery (Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	65		50 - 150				10/05/21 11:17	10/06/21 20:16	1

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

o-Terphenyl

Date Collected: 09/23/21 13:18

Date Received: 09/23/21 16:50

Matrix: Water

Method: NWTPH-Dx - Northwe	st - Semi-V	Semi-Volatile Petroleum Products (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		10/05/21 11:17	10/06/21 20:37	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		10/05/21 11:17	10/06/21 20:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

50 - 150

63

10/05/21 11:17 10/06/21 20:37

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/23/21 13:18 Matrix: Water Date Received: 09/23/21 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		10/05/21 11:17	10/06/21 20:57	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		10/05/21 11:17	10/06/21 20:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	68		50 - 150				10/05/21 11:17	10/06/21 20:57	1

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/23/21 13:05 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		10/05/21 11:17	10/06/21 21:37	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		10/05/21 11:17	10/06/21 21:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	69		50 - 150				10/05/21 11:17	10/06/21 21:37	1

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/23/21 12:20 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		10/05/21 11:17	10/06/21 21:57	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		10/05/21 11:17	10/06/21 21:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	65		50 - 150				10/05/21 11:17	10/06/21 21:57	1

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: S3-BU-092321 Lab Sample ID: 580-106108-43

Date Collected: 09/23/21 11:40 **Matrix: Water**

Method: NWTPH-Dx - No	orthwest - Semi-Vola	atile Petro	oleum Prod	ucts (GC	C)				
Analyte	Result Qu	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.062	0.062	mg/L		10/05/21 11:17	10/06/21 22:17	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		10/05/21 11:17	10/06/21 22:17	1
Surrogate	%Recovery Qu	ualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenvl	64		50 - 150				10/05/21 11:17	10/06/21 22:17	

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Matrix: Water

Date Collected: 09/23/21 11:10 Date Received: 09/23/21 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		10/05/21 11:17	10/06/21 22:38	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		10/05/21 11:17	10/06/21 22:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	72		50 - 150				10/05/21 11:17	10/06/21 22:38	1

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/23/21 10:25 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.26		0.062	0.062	mg/L		10/05/21 11:17	10/06/21 22:58	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		10/05/21 11:17	10/06/21 22:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150				10/05/21 11:17	10/06/21 22:58	1

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Date Collected: 09/23/21 09:55 Matrix: Water

Method: NWTPH-Dx - No	orthwest - Semi-Vol	latile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.062	0.062	mg/L		10/05/21 11:17	10/06/21 23:38	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		10/05/21 11:17	10/06/21 23:38	1
Surrogate	%Recovery Q	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	69		50 - 150				10/05/21 11:17	10/06/21 23:38	1

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: S1-BD-092321 Lab Sample ID: 580-106108-47

Date Collected: 09/23/21 08:40 Matrix: Water

Date Received: 09/23/21 16:50

Method: NWTPH-Dx - No	orthwest - Semi-Vo	latile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.062	0.062	mg/L		10/05/21 11:17	10/06/21 23:58	1
Motor Oil (>C24-C36)	ND		0.092	0.092	mg/L		10/05/21 11:17	10/06/21 23:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	71		50 - 150				10/05/21 11:17	10/06/21 23:58	1

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Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: S1-BU-092321 Lab Sample ID: 580-106108-48

Date Collected: 09/23/21 09:10 Matrix: Water

Date Received: 09/23/21 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062	0.062	mg/L		10/06/21 10:53	10/07/21 03:59	1
Motor Oil (>C24-C36)	ND		0.091	0.091	mg/L		10/06/21 10:53	10/07/21 03:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	49	S1-	50 - 150				10/06/21 10:53	10/07/21 03:59	1

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Job ID: 580-106108-1

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Semi Annual

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-369139/1-A

Lab Sample ID: LCS 580-369139/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 369290

Analysis Batch: 369290

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 369139

MB MB Result Qualifier RL **MDL** Unit D Analyzed Dil Fac Analyte Prepared #2 Diesel (C10-C24) ND 0.065 0.065 mg/L 09/29/21 10:56 09/30/21 22:42 Motor Oil (>C24-C36) ND 0.096 0.096 mg/L 09/29/21 10:56 09/30/21 22:42

MB MB

Surrogate %Recovery Qualifier I imite Prepared Analyzed Dil Fac o-Terphenyl 53 50 - 150 09/29/21 10:56 09/30/21 22:42

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 369139

Spike LCS LCS %Rec. Added Result Qualifier Limits **Analyte** Unit D %Rec 0.500 50 - 120 #2 Diesel (C10-C24) 0.675 *+ mg/L 135 Motor Oil (>C24-C36) 0.500 0.927 *+ 185 64 - 120 mg/L

LCS LCS

%Recovery Qualifier Limits Surrogate o-Terphenyl 109 50 - 150

Lab Sample ID: LCSD 580-369139/3-A

Matrix: Water

Analysis Batch: 369290

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 369139

LCSD LCSD Spike %Rec. **RPD** Result Qualifier Limits **RPD** Analyte Added Unit %Rec Limit #2 Diesel (C10-C24) 0.500 0.683 *+ 50 - 120 mg/L 137 26 Motor Oil (>C24-C36) 0.500 0.953 *+ 64 - 120 mg/L 191 3 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 50 - 150

Lab Sample ID: MB 580-369266/1-A

Matrix: Water

Analysis Batch: 369555

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 369266

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac #2 Diesel (C10-C24) ND 0.065 0.065 mg/L 09/30/21 11:02 10/04/21 11:37 Motor Oil (>C24-C36) ND 0.096 0.096 mg/L 09/30/21 11:02 10/04/21 11:37

MB MB

Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed o-Terphenyl 68 50 - 150 09/30/21 11:02 10/04/21 11:37

Lab Sample ID: LCS 580-369266/2-A

Matrix: Water

Analysis Batch: 369555

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

%Rec.

Prep Batch: 369266

LCS LCS Spike Added Result Qualifier Unit %Rec Limits Analyte D #2 Diesel (C10-C24) 0.500 75 0.377 mg/L 50 - 120 Motor Oil (>C24-C36) 0.500 0.399 mg/L 80 64 - 120

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Project/Site: BNSF Skykomish Semi Annual

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 580-369266/2-A

Lab Sample ID: LCSD 580-369266/3-A

Matrix: Water

Matrix: Water

Analysis Batch: 369555

Analysis Batch: 369555

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 369266

LCS LCS

%Recovery Qualifier Limits Surrogate o-Terphenyl 90 50 - 150

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 369266

%Rec. **RPD** Limits RPD Limit 26

Spike Added Result Qualifier **Analyte** Unit %Rec #2 Diesel (C10-C24) 0.500 0.313 mg/L 63 50 - 120 19 mg/L Motor Oil (>C24-C36) 0.500 0.353 71 64 - 120 12 24

LCSD LCSD

LCSD LCSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 77 50 - 150

Lab Sample ID: MB 580-369655/1-A Client Sample ID: Method Blank **Matrix: Water**

Analysis Batch: 369746

MB MB

Prep Type: Total/NA

Prep Batch: 369655

Result Qualifier MDL Unit Analyte RL D Prepared Analyzed Dil Fac #2 Diesel (C10-C24) 0.065 0.065 mg/L 10/05/21 11:17 10/06/21 15:55 ND ND Motor Oil (>C24-C36) 0.096 0.096 mg/L 10/05/21 11:17 10/06/21 15:55

MR MR

Surrogate %Recovery Qualifier Limits Prepared Analyzed o-Terphenyl 66 50 - 150 10/05/21 11:17 10/06/21 15:55

Lab Sample ID: LCS 580-369655/2-A **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 369746

Prep Type: Total/NA

Prep Batch: 369655 %Rec.

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits #2 Diesel (C10-C24) 0.500 0.367 73 50 - 120 mg/L Motor Oil (>C24-C36) 0.500 0.445 mg/L 89 64 - 120

LCS LCS

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl

Lab Sample ID: LCSD 580-369655/3-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Water

Analysis Batch: 369746

Prep Type: Total/NA

Prep Batch: 369655

LCSD LCSD Spike %Rec. **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit #2 Diesel (C10-C24) 0.500 0.446 mg/L 89 50 - 120 19 26 Motor Oil (>C24-C36) 0.500 0.496 99 mg/L 64 - 12011 24

LCSD LCSD

%Recovery Qualifier Limits Surrogate o-Terphenyl 50 - 150 95

Eurofins FGS, Seattle

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 580-369754/1-A

Lab Sample ID: LCS 580-369754/3-A

Matrix: Water

Matrix: Water

Analysis Batch: 369746

Analysis Batch: 369746

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 369754

MB MB Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Analyte #2 Diesel (C10-C24) ND 0.065 0.065 mg/L 10/06/21 10:53 10/07/21 01:39 Motor Oil (>C24-C36) ND 0.096 0.096 mg/L 10/06/21 10:53 10/07/21 01:39

MB MB

Surrogate %Recovery Qualifier I imite Prepared Analyzed Dil Fac o-Terphenyl 55 50 - 150 10/06/21 10:53 10/07/21 01:39

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 369754

Spike LCS LCS %Rec. Added Result Qualifier Limits **Analyte** Unit D %Rec 0.500 50 - 120 #2 Diesel (C10-C24) 0.318 mg/L 64 Motor Oil (>C24-C36) 0.500 0.428 86 64 - 120 mg/L

LCS LCS

%Recovery Qualifier Limits Surrogate o-Terphenyl 50 - 150 86

Lab Sample ID: LCSD 580-369754/4-A

Matrix: Water

Analysis Batch: 369746

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 369754

Spike LCSD LCSD %Rec. **RPD** Result Qualifier Limits **RPD** Analyte Added Unit D %Rec Limit #2 Diesel (C10-C24) 0.500 0.325 50 - 120 2 mg/L 65 26 Motor Oil (>C24-C36) 0.500 0.469 94 64 - 120 mg/L 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 50 - 150

Lab Sample ID: MB 580-370022/1-A

Matrix: Water

Analysis Batch: 370099

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 370022

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac #2 Diesel (C10-C24) ND 0.065 0.065 mg/L 10/08/21 10:18 10/08/21 18:51 Motor Oil (>C24-C36) ND 0.096 0.096 mg/L 10/08/21 10:18 10/08/21 18:51

MB MB

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed o-Terphenyl 75 50 - 150 10/08/21 10:18 10/08/21 18:51

Lab Sample ID: LCS 580-370022/2-A

Matrix: Water

Analysis Batch: 370099

Client Sample ID: Lab Control Sample

%Rec.

Prep Batch: 370022

LCS LCS Spike Added Result Qualifier Unit %Rec Limits Analyte D #2 Diesel (C10-C24) 0.500 0.403 mg/L 81 50 - 120 Motor Oil (>C24-C36) 0.500 0.464 mg/L 93 64 - 120

Eurofins FGS, Seattle

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Dil Fac

Prep Type: Total/NA

Job ID: 580-106108-1

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Semi Annual

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 580-370022/2-A

Lab Sample ID: LCSD 580-370022/3-A

Matrix: Water

Matrix: Water

Analyte

Analysis Batch: 370099

Analysis Batch: 370099

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 370022

LCS LCS

%Recovery Qualifier Limits Surrogate o-Terphenyl 87 50 - 150

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 370022

%Rec. **RPD** Limits RPD Limit

Added Result Qualifier Unit %Rec #2 Diesel (C10-C24) 0.500 0.373 mg/L 75 50 - 120 8 26 Motor Oil (>C24-C36) 0.500 0.464 mg/L 93 64 - 120 0 24

LCSD LCSD

LCSD LCSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 83 50 - 150

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Spike

Lab Sample ID: MB 580-369655/1-B Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 369746

Prep Type: Total/NA

Prep Batch: 369655

Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed #2 Diesel (C10-C24) ND 0.065 0.065 mg/L 10/05/21 11:17 10/06/21 14:14 Motor Oil (>C24-C36) ND 0.096 0.096 mg/L 10/05/21 11:17 10/06/21 14:14

MB MB

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac o-Terphenyl 67 50 - 150 10/05/21 11:17 10/06/21 14:14

Lab Sample ID: LCS 580-369655/2-B

Matrix: Water

Analysis Batch: 369746

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 369655

Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit D %Rec Limits #2 Diesel (C10-C24) 0.500 0.396 79 50 - 120 mg/L Motor Oil (>C24-C36) 0.500 0.475 95 mg/L 64 - 120

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 50 - 150

Lab Sample ID: LCSD 580-369655/3-B

Matrix: Water

Analysis Batch: 369746

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 369655**

%Rec. RPD

Spike LCSD LCSD Added Result Qualifier %Rec Limits RPD Limit Analyte Unit #2 Diesel (C10-C24) 0.500 0.469 94 50 - 120 17 26 mg/L Motor Oil (>C24-C36) 0.500 0.520 mg/L 104 64 - 120 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 93 50 - 150

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10/13/2021

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: 5-W-51-092221

Date Collected: 09/22/21 09:25 Date Received: 09/23/21 16:50 Lab Sample ID: 580-106108-1

Matrix: Water

Job ID: 580-106108-1

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369655	10/05/21 11:17	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369746	10/06/21 16:55	ADB	FGS SEA

Client Sample ID: 5-W-18-092221

Date Collected: 09/22/21 10:10 Date Received: 09/23/21 16:50 Lab Sample ID: 580-106108-2

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369655	10/05/21 11:17	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369746	10/06/21 17:15	ADB	FGS SEA

Client Sample ID: 5-W-43-092221

Date Collected: 09/22/21 10:55 Date Received: 09/23/21 16:50 Lab Sample ID: 580-106108-3

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369655	10/05/21 11:17	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369746	10/06/21 17:56	ADB	FGS SEA

Client Sample ID: 2A-W-40-092221

Date Collected: 09/22/21 11:40 Date Received: 09/23/21 16:50 Lab Sample ID: 580-106108-4

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369949	10/07/21 12:07	JAE	FGS SEA

Client Sample ID: 1B-W-23-092221

Date Collected: 09/22/21 12:05

Date Received: 09/23/21 16:50

Lab Sample ID: 580-106108-5
Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369290	10/01/21 00:01	JSM	FGS SEA

Client Sample ID: 1C-W-7-092221

Date Collected: 09/22/21 15:00

Date Received: 09/23/21 16:50

Lab Sample ID: 580-106108-6

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369290	10/01/21 00:21	JSM	FGS SEA
Total/NA	Prep	3510C	RE		370022	10/08/21 10:18	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	370099	10/08/21 19:51	T1W	FGS SEA

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: GW-4-092221

Date Collected: 09/22/21 15:55

Date Received: 09/23/21 16:50

Lab Sample ID: 580-106108-7

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369290	10/01/21 00:40	JSM	FGS SEA
Total/NA	Prep	3510C	RE		370022	10/08/21 10:18	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	370099	10/08/21 20:11	T1W	FGS SEA

Client Sample ID: EW-2A-092221

Date Collected: 09/22/21 15:10

Date Received: 09/23/21 16:50

Lab Sample ID: 580-106108-8

Matrix: Water

	Batch	Batch	_	Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369290	10/01/21 01:00	JSM	FGS SEA

Client Sample ID: MW-555-092221

Date Collected: 09/22/21 16:45

Date Received: 09/23/21 16:50

Lab Sample	ID:	580-106108-9
		Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369290	10/01/21 01:20	JSM	FGS SEA

Client Sample ID: 2A-W-9-092221

Date Collected: 09/22/21 15:36

Date Received: 09/23/21 16:50

Lab	Samp	le ID:	580-1	1061	08-10
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Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369290	10/01/21 01:39	JSM	FGS SEA
Total/NA	Prep	3510C	RE		370022	10/08/21 10:18	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	370099	10/08/21 20:31	T1W	FGS SEA

Client Sample ID: 1C-W-4092221

Date Collected: 09/22/21 14:17

Date Received: 09/23/21 16:50

Lab	Sample	ID:	580-106108-11	

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369290	10/01/21 02:19	JSM	FGS SEA

Client Sample ID: 2A-W-42-092221

Date Collected: 09/22/21 13:22

Date Received: 09/23/21 16:50

Lab Samp	le ID: 580-′	106108-12
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Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369290	10/01/21 02:38	JSM	FGS SEA

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Client Sample ID: 2A-W-42-092221

Date Collected: 09/22/21 13:22 Date Received: 09/23/21 16:50

Lab Sample ID: 580-106108-12

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	RE		370022	10/08/21 10:18	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	370099	10/08/21 20:51	T1W	FGS SEA

Lab Sample ID: 580-106108-13 **Client Sample ID: 2A-W-41-092221**

Date Collected: 09/22/21 11:59 Date Received: 09/23/21 16:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369655	10/05/21 11:17	JHR	FGS SEA
Total/NA	Cleanup	3630C			369700	10/05/21 17:06	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369746	10/06/21 15:15	ADB	FGS SEA
Total/NA	Prep	3510C			369655	10/05/21 11:17	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369746	10/06/21 18:16	ADB	FGS SEA

Client Sample ID: GW-1-092221 Lab Sample ID: 580-106108-14 **Matrix: Water**

Date Collected: 09/22/21 11:06 Date Received: 09/23/21 16:50

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369290	10/01/21 02:58	JSM	FGS SEA

Client Sample ID: 5-W-56-092221 Lab Sample ID: 580-106108-15

Date Collected: 09/22/21 09:40 Date Received: 09/23/21 16:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369290	10/01/21 03:18	JSM	FGS SEA
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369949	10/07/21 13:26	JAE	FGS SEA

Client Sample ID: EW-1-092221 Lab Sample ID: 580-106108-16 Date Collected: 09/22/21 10:27

Date Received: 09/23/21 16:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369290	10/01/21 03:37	JSM	FGS SEA

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: 1C-W-8-092221

Date Collected: 09/22/21 14:38 Date Received: 09/23/21 16:50 Lab Sample ID: 580-106108-17

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369290	10/01/21 03:57	JSM	FGS SEA

Date Collected: 09/22/21 12:36 Date Received: 09/23/21 16:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369655	10/05/21 11:17	JHR	FGS SEA
Total/NA	Cleanup	3630C			369700	10/05/21 17:06	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369746	10/06/21 15:35	ADB	FGS SEA
Total/NA	Prep	3510C			369655	10/05/21 11:17	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369746	10/06/21 18:36	ADB	FGS SEA

Date Received: 09/23/21 16:50

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369290	10/01/21 04:17	JSM	FGS SEA
Total/NA	Prep	3510C	RE		370022	10/08/21 10:18	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	370099	10/08/21 21:12	T1W	FGS SEA

Date Collected: 09/22/21 11:12 Date Received: 09/23/21 16:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369290	10/01/21 04:37	JSM	FGS SEA

Date Received: 09/23/21 16:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369266	09/30/21 11:02	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369555	10/04/21 18:02	JAE	FGS SEA

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Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: 5-W-55-092221

Date Collected: 09/22/21 09:34 Date Received: 09/23/21 16:50 Lab Sample ID: 580-106108-22

Matrix: Water

Job ID: 580-106108-1

l		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	3510C			369266	09/30/21 11:02	BJM	FGS SEA
	Total/NA	Analysis	NWTPH-Dx		1	369555	10/04/21 18:22	JAE	FGS SEA

Client Sample ID: 5-W-180-092221

Date Collected: 09/22/21 10:10 Date Received: 09/23/21 16:50 Lab Sample ID: 580-106108-23

Matrix: Water

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	3510C			369266	09/30/21 11:02	BJM	FGS SEA
Į	Total/NA	Analysis	NWTPH-Dx		1	369555	10/04/21 18:42	JAE	FGS SEA

Client Sample ID: 2A-W-410-092221

Date Collected: 09/22/21 12:10 Date Received: 09/23/21 16:50 Lab Sample ID: 580-106108-24

Matrix: Water

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369290	10/01/21 04:56	JSM	FGS SEA
Total/NA	Prep	3510C	RE		370022	10/08/21 10:18	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	370099	10/08/21 21:32	T1W	FGS SEA

Client Sample ID: GW-30-092221

Date Collected: 09/22/21 12:36

Date Received: 09/23/21 16:50

Lab Sample	ID:	580-1	06108-25
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Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369290	10/01/21 05:16	JSM	FGS SEA
Total/NA	Prep	3510C	RE		370022	10/08/21 10:18	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	370099	10/08/21 21:52	T1W	FGS SEA

Client Sample ID: 5-W-16-092221

Date Collected: 09/21/21 16:35

Date Received: 09/23/21 16:50

Lab Sam	iple ID:	580-1	06108-26
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Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369290	10/01/21 05:55	JSM	FGS SEA

Client Sample ID: 5-W-19-092121

Date Collected: 09/21/21 16:30 Date Received: 09/23/21 16:50 Lab Sample ID: 580-106108-27

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369290	10/01/21 06:15	JSM	FGS SEA

Eurofins FGS, Seattle

Job ID: 580-106108-1

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Lab Sample ID: 580-106108-29

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: 5-W-19-092121 Lab Sample ID: 580-106108-27

Date Collected: 09/21/21 16:30 Matrix: Water
Date Received: 09/23/21 16:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	RE		370022	10/08/21 10:18	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	370099	10/08/21 22:32	T1W	FGS SEA

Client Sample ID: 5-W-17-092121 Lab Sample ID: 580-106108-28

Date Collected: 09/21/21 16:50 Date Received: 09/23/21 16:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369139	09/29/21 10:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369290	10/01/21 06:35	JSM	FGS SEA

Client Sample ID: S1-AU-092321

Date Collected: 09/23/21 08:45 Date Received: 09/23/21 16:50

Batch Batch Dilution Batch **Prepared** Method Number or Analyzed **Prep Type** Type Run **Factor** Analyst Lab Total/NA Prep 3510C 369266 09/30/21 11:02 BJM FGS SEA Total/NA Analysis NWTPH-Dx 369555 10/04/21 19:02 JAE FGS SEA 1

Date Collected: 09/23/21 08:45 Date Received: 09/23/21 16:50

Batch **Batch** Dilution Batch **Prepared Prep Type** Method Run Factor Number or Analyzed Analyst Type Lab Total/NA 3510C 369266 09/30/21 11:02 BJM FGS SEA Prep Total/NA **NWTPH-Dx** 369555 10/04/21 19:22 JAE **FGS SEA** Analysis

Client Sample ID: S2-AD-092321 Lab Sample ID: 580-106108-31

Date Collected: 09/23/21 09:35 Date Received: 09/23/21 16:50

	_	Batch	Batch		Dilution	Batch	Prepared		
ı	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	3510C			369266	09/30/21 11:02	BJM	FGS SEA
ı	Total/NA	Analysis	NWTPH-Dx		1	369555	10/04/21 19:41	JAE	FGS SEA

Date Collected: 09/23/21 09:35 Date Received: 09/23/21 16:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369266	09/30/21 11:02	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369555	10/04/21 20:01	JAE	FGS SEA

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: S3-AD-092321 Lab Sample ID: 580-106108-33

Date Collected: 09/23/21 10:30 Date Received: 09/23/21 16:50

Matrix: Water

Matrix: Water

Matrix: Water

Job ID: 580-106108-1

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369266	09/30/21 11:02	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369555	10/04/21 20:21	JAE	FGS SEA

Client Sample ID: S3-AU-092321 Lab Sample ID: 580-106108-34

Date Collected: 09/23/21 10:30 **Matrix: Water**

Date Received: 09/23/21 16:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369655	10/05/21 11:17	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369746	10/06/21 18:56	ADB	FGS SEA

Client Sample ID: S3-CD-092321

Lab Sample ID: 580-106108-35

Date Collected: 09/23/21 11:25 **Matrix: Water** Date Received: 09/23/21 16:50

Batch Batch Dilution Batch **Prepared** Method Number or Analyzed **Prep Type** Type Run **Factor** Analyst Lab FGS SEA Total/NA Prep 3510C 369655 10/05/21 11:17 JHR Total/NA Analysis NWTPH-Dx 369746 10/06/21 19:16 ADB **FGS SEA** 1

Client Sample ID: S3-CU-092321 Lab Sample ID: 580-106108-36

Date Collected: 09/23/21 11:25 Date Received: 09/23/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
							. ,	
Total/NA	Prep	3510C			369655	10/05/21 11:17	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369746	10/06/21 19:36	ADB	FGS SEA

Client Sample ID: S4-AD-092321 Lab Sample ID: 580-106108-37

Date Collected: 09/23/21 12:25 Date Received: 09/23/21 16:50

Batch Batch Dilution Batch **Prepared** Method Factor Number or Analyzed **Prep Type** Type Run Analyst I ab FGS SEA Total/NA Prep 3510C 369655 10/05/21 11:17 JHR Total/NA Analysis **FGS SEA NWTPH-Dx** 1 369746 10/06/21 19:56

Client Sample ID: S4-AU-092321 Lab Sample ID: 580-106108-38

Date Collected: 09/23/21 12:25 **Matrix: Water** Date Received: 09/23/21 16:50

Batch **Batch** Dilution Batch Prepared **Prep Type** Type Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 3510C 369655 10/05/21 11:17 JHR FGS SEA Total/NA Analysis **NWTPH-Dx** 369746 10/06/21 20:16 ADB **FGS SEA**

Lab Oill C

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: S4-CD-092321

Date Collected: 09/23/21 13:18 Date Received: 09/23/21 16:50 Lab Sample ID: 580-106108-39

Matrix: Water

Job ID: 580-106108-1

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369655	10/05/21 11:17	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369746	10/06/21 20:37	ADB	FGS SEA

Client Sample ID: S4-CU-092321

Date Collected: 09/23/21 13:18 Date Received: 09/23/21 16:50 Lab Sample ID: 580-106108-40

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369655	10/05/21 11:17	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369746	10/06/21 20:57	ADB	FGS SEA

Client Sample ID: S4-BU-092321

Date Collected: 09/23/21 13:05 Date Received: 09/23/21 16:50 Lab Sample ID: 580-106108-41

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369655	10/05/21 11:17	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369746	10/06/21 21:37	ADB	FGS SEA

Client Sample ID: S4-BD-092321

Date Collected: 09/23/21 12:20 Date Received: 09/23/21 16:50 Lab Sample ID: 580-106108-42

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369655	10/05/21 11:17	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369746	10/06/21 21:57	ADB	FGS SEA

Client Sample ID: S3-BU-092321

Date Collected: 09/23/21 11:40

Date Received: 09/23/21 11:40

Lab	Sample	ID:	580-1	0	61	08-43

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369655	10/05/21 11:17	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369746	10/06/21 22:17	ADB	FGS SEA

Client Sample ID: S3-BD-092321

Date Collected: 09/23/21 11:10

Date Received: 09/23/21 16:50

Lab Sample	ID:	580-1	061	08-44
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Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369655	10/05/21 11:17	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369746	10/06/21 22:38	ADB	FGS SEA

Project/Site: BNSF Skykomish Semi Annual

Client Sample ID: S2-BU-092321

Date Collected: 09/23/21 10:25 Date Received: 09/23/21 16:50 Lab Sample ID: 580-106108-45

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared				
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab		
Total/NA	Prep	3510C			369655	10/05/21 11:17	JHR	FGS SEA		
Total/NA	Analysis	NWTPH-Dx		1	369746	10/06/21 22:58	ADB	FGS SEA		

Client Sample ID: S2-BD-092321

Date Collected: 09/23/21 09:55 Date Received: 09/23/21 16:50 Lab Sample ID: 580-106108-46

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369655	10/05/21 11:17	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369746	10/06/21 23:38	ADB	FGS SEA

Client Sample ID: S1-BD-092321

Date Collected: 09/23/21 08:40

Date Received: 09/23/21 16:50

Lab Sample ID: 580-106108-47

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369655	10/05/21 11:17	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369746	10/06/21 23:58	ADB	FGS SEA

Client Sample ID: S1-BU-092321

Date Collected: 09/23/21 09:10

Date Received: 09/23/21 16:50

.ab Sample	ID:	580-1	061	08-48
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Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369754	10/06/21 10:53	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369746	10/07/21 03:59	ADB	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-106108-1

Project/Site: BNSF Skykomish Semi Annual

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

3

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8

9

10

Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Semi Annual

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-106108-1	5-W-51-092221	Water	09/22/21 09:25	09/23/21 16:50
580-106108-2	5-W-18-092221	Water	09/22/21 10:10	09/23/21 16:50
580-106108-3	5-W-43-092221	Water	09/22/21 10:55	09/23/21 16:50
580-106108-4	2A-W-40-092221	Water	09/22/21 11:40	09/23/21 16:50
580-106108-5	1B-W-23-092221	Water	09/22/21 12:05	09/23/21 16:50
580-106108-6	1C-W-7-092221	Water	09/22/21 15:00	09/23/21 16:50
580-106108-7	GW-4-092221	Water	09/22/21 15:55	09/23/21 16:50
580-106108-8	EW-2A-092221	Water	09/22/21 15:10	09/23/21 16:50
580-106108-9	MW-555-092221	Water	09/22/21 16:45	09/23/21 16:50
580-106108-10	2A-W-9-092221	Water	09/22/21 15:36	09/23/21 16:50
580-106108-11	1C-W-4092221	Water	09/22/21 14:17	09/23/21 16:50
580-106108-12	2A-W-42-092221	Water	09/22/21 13:22	09/23/21 16:50
580-106108-13	2A-W-41-092221	Water	09/22/21 11:59	09/23/21 16:50
580-106108-14	GW-1-092221	Water		09/23/21 16:50
580-106108-15	5-W-56-092221	Water		09/23/21 16:50
580-106108-16	EW-1-092221	Water		09/23/21 16:50
580-106108-17	1C-W-8-092221	Water		09/23/21 16:50
580-106108-18	GW-3-092221	Water		09/23/21 16:50
580-106108-19	MW-4-092221	Water		09/23/21 16:50
580-106108-20	GW-2-092221	Water		09/23/21 16:50
580-106108-21	5-W-14-092221	Water		09/23/21 16:50
580-106108-22	5-W-55-092221	Water		09/23/21 16:50
580-106108-23	5-W-180-092221	Water		09/23/21 16:50
580-106108-24	2A-W-410-092221	Water		09/23/21 16:50
580-106108-25	GW-30-092221	Water		09/23/21 16:50
580-106108-26	5-W-16-092221	Water		09/23/21 16:50
580-106108-27	5-W-19-092121	Water		09/23/21 16:50
580-106108-28	5-W-17-092121	Water		09/23/21 16:50
580-106108-29	S1-AU-092321	Water		09/23/21 16:50
580-106108-30	S1-AD-092321	Water		09/23/21 16:50
580-106108-31	S2-AD-092321	Water		09/23/21 16:50
580-106108-32	S2-AU-092321	Water		09/23/21 16:50
580-106108-32	S3-AD-092321	Water		09/23/21 16:50
580-106108-34	S3-AU-092321	Water		09/23/21 16:50
580-106108-35	S3-CD-092321	Water		09/23/21 16:50
580-106108-36	S3-CU-092321	Water		09/23/21 16:50
580-106108-37	S4-AD-092321	Water		09/23/21 16:50
580-106108-37	S4-AU-092321 S4-AU-092321	Water		09/23/21 16:50
580-106108-39	S4-A0-092321 S4-CD-092321	Water		09/23/21 16:50
580-106108-40 580-106108-41	S4-CU-092321 S4-BU-092321	Water		09/23/21 16:50
580-106108-41	S4-BU-092321	Water		09/23/21 16:50
580-106108-42 580-106108-43	S4-BD-092321	Water		09/23/21 16:50
580-106108-43	S3-BU-092321	Water		09/23/21 16:50
580-106108-44	S3-BD-092321	Water		09/23/21 16:50
580-106108-45	S2-BU-092321	Water		09/23/21 16:50
580-106108-46	S2-BD-092321	Water		09/23/21 16:50
580-106108-47	S1-BD-092321	Water		09/23/21 16:50
580-106108-48	S1-BU-092321	Water	09/23/21 09:10	09/23/21 16:50

Job ID: 580-106108-1

			L	LAI	LAB WORK ORDER:								
BNSF	Laboratory:					Project Mana	ger:				SHIPMENT INFOR	MATION	
RAILWAY	Address:					Phone:			Shi	pment Method	i:		
CHAIN OF CUSTODY	City/State/ZIP					Fax:			Tra	cking Number:	106	108	
BNSF PROJECT INFORMATION	Project State o	Origin:				CONSULTAN	T INFORM	MATION		Project Number: 683-071			
BNSF Project Number: 683-071	Project City:			Company:	-ara	llon	Cons	sultina	Project Manager: Amanda Melhan Email: amelyaniot @ Farallon Phone: 425-295-0800				
BNSF Project Name: BNSF SKYKOMISM BNSF Contact:	i Sen	i And	rual	Address: C	175	5th	Ave	sulting NW	Ema	ame	uaniot@	Faralioneonsu	
BNSF Contact:	8NSF Work Or	der No.:		City/State/ZIP:		wah	3		Pho	425	-295 USE		
TURNAROUND TIME		ELIVERABLES	Other De	eliverables?		<u></u>	₹ ^	METHODS FOR ANALY		-			
1-day Rush 5- to 8-day Rush	BNSF S	andard (Level II)				₹ ×	5			11111111111111111111111111111111111111	"" Bingi jenikada pobernanan eshi	*. 	
2-day Rush Standard 10-Day	Level III		EDD Re	q, Format?		ž Č	,	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT					
3-day Rush Other	Level IV					8	80. 1						
SAM	PLE INFORM	ATION				NWTPH	SINCA 9			580-106	108 Chain of Cust	ody	
Constant	Cantainava	Samp	le Collection	FRIENCE I (Co	pe mp/ Matrix	ا 3 مّ	≚ 3			1	1	•	
Sample Identification	Containers	Date	Time Sampler		ab) watti	Ĕ 2 ,	ρĒ				COMMENTS	LAB USE	
.5-W-51-092221	2	9/22/21	0925 ES	N	y W	X						- 1	
25-W-18-092221			1010			X							
· 5-W-43-092221			1055			\times						- 3	
· 2A-W-40-092221			1140			\times							
1B-W-23-092221			1235			×						- 5	
·1C-W-7-092221			1350			X							
, GW-4-092221			1555			X						-7	
· EW-2A-092221			1510			X							
· MW-555-092221			1645 GP			X						- 9	
·2A-W-9-092221			1536			X							
1C-W-4-092221			1417			X						-11	
22A-W-42-692221			1322			X	Mb)						
2A-W-41-092221			1159			 X >	~					-13	
4 GW-1-092221			1100	2		X							
15 5-W-5(0-09222)	4	ー	0940 L			X						- 15	
Relinquished By Smith	Date/Time 123/21	1650	Received By ion ?	slant	\(\int_{\inttileftinteta\int_{\inttileftittileftintetint{\inttileftittileftittileftittileftittileftititileftittileftittileftittileftittileftittileftittileftittileftitileftittileftittileftittileftittileftittileftittileftittileftitil)	Date/I	7/25/21 1650	omments a	nd Special /	Analytical Requireme	ents:	
Relinquished By:	Date/Time:		Received By:	Date/Time:									
Relinquished By:	Date/Time:	Date/Time:											
Received by Laboratory:	Date/Time:		Lab Remarks:	Lab: Custody Infact? Custody Se.					ustody Seal No	ody Seal No. BNSF COC No			
ORIGINAL - RETURN TO LABORATORY WITH SAMPLES	<u> </u>	• • • • • • • • • • • • • • • • • • • •	ĐU	DUPLICATE - CONSULTANT						******	······································	TAL-1001 (0912)	

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		ŧ.	ABORATORY INFO	RMATION		LAB WORK OF	Page 2 of Î						
BNSF	Laboratory:			Project Manager:			SHIPMENT INFORMATION						
RAILWAY	Address:			Phone:	Shipment Method:								
CHAIN OF CUSTODY	City/State/ZIP:			Fax:		Tracking Numb	Tracking Number:						
BNSF PROJECT INFORMATION	Project State of Origin:			CONSULTANT IN	IFORMATION	Project Number:	683-07						
BNSF Project Number: 683-071	Project City:		Company: Fara	alion cons	ultina	Project Manager:	Amanda M	reagniot					
BNSF Project Name BNSF SKYKO MIS	SM SPM AMM	ual	Address: 9.7= City/State/ZIP. 1550QU	ation cons 5 5 th Au	e NW	Phone: 42	683-071 Amanda M Eugnist@F 5-295-085	arailon cons					
TURNAROUND TIME	DELIVERABLES	Other De		2 7	METHODS FOR AN	ALYSIS							
1-day Rush 5- to 8-day Rush	BNSF Standard (Level II)				2								
2-day Rush Standard 10-Day	Level III	EDD Rec	ą, Format?	\$ O A	弘		İ						
3-day Rush Other	Level IV			一章士声	7								
SA	MPLE INFORMATION		4	16 P 18	<u> </u>								
Sample Identification	Containers Date	le Collection Time Sampler	Filtered (Comp/ Y/N Grab)	Metrix NUTPH-DX OUTPH-DX OUTPH-DX	5		COMMENTS	LAB USE					
EW-1-692221	2 9/22/21	1027 GP	NG	W >									
16-W-8-092221		1438 EB		1 X em	a			_11					
GW-3-092221		1236											
MW -4 -09 2221		1541		$\parallel \times \parallel$				-19					
(7W-2-092221		11112		$+\times$									
5-W-14-092221		1024						-21					
5-W-55-092221		0934 1		+18									
5-W-180-092221		1010 ES		$+ \mathcal{S} $				-23					
2A-W-410-092221		1210 GP		$+\!\!\mid\!\!\downarrow$				7 F					
GW-30-092221	0/01/01	1230 EB		+ X				-25					
5-W-16-092121	9/21)21			$+\!$				1.07					
5-W-19-092121		1630 GP		$++\dot{\lambda}$				-27					
5-W-17-092121	<u>-L</u>	1650 ES		+				-29					
S1- AU-092321	9123121	0845 EB		++				~ / -					
5 51 - AD - 09 23 21 elinquished By:	Daje/Time; Nation	Received By:	<u> </u>	<u> </u>	Date/Time:	Comments and Specia	i Analytical Requirements	s:					
tetinquished By:	Date/Time: 1450 Date/Time:	Tom (~~~	<u> </u>	Date/Time: 9/23/21 1657 Date/Time:	1							
lefinquished By:	Date/Time:	Received By:			Date/Time								
Received by Laboratory:	Date/Time:	Lab Remarks:			Lab: Custody Intact? Custody Seal No. BNSF COC No								
ORIGINAL - RETURN TO LABORATORY WITH SAMPLES		DU	PLICATE - CONSUL	TANT	Yes No			TAL-1001 (0912)					

TAL-1001 (0912)

													Pake	3044		
BNSF	Laboratory:			ABORA	ORY IN	ORMAT	ION Project Manag	jer:			L	AB WORK OR	SHIPMENT INFORMA			
	Address:						Phone:				s	Shipment Method:				
RAILWAY	City/State/ZIP:						Fax:					Tracking Number:				
CHAIN OF CUSTODY	Project State of	Origin:		1		C	ONSHITANI	TIMEO	PMATION			Project Number / A				
BNSF Project Number:	Project City:			CONSULTANT INFORMATION Company:								Project Manager A				
085-011	·····			Address	+UY	alle	M (SVC	nitiva)	Ē	mail:	thrunda U	enanto1		
BNSF Project Name: BNSF SKYKOMISH	SEM BNSF Work Or	L ANNU der No.:	City/State	977 9/ZIP:	-	5 th A1		<u> </u>		Phone 425-295-0800						
TURNAROUND TIME	D	ELIVERABLES	Other I	Deliverable	s?				METHODS FO	R ANAL						
1-day Rush 5- to 8-day Rush	BNSF St	andard (Level II)					+	2								
2-day Rush Standard 10-Day	Level III		EDD R	eq, Formal	?		AF	ובַי								
3-day Rush Other	Level IV						1	ennup								
SAM	PLE INFORM	ATION			·		품	5								
		Samp	le Collection	Filtered	Туре	Matrix										
Sample Identification	Containers	Date	Time Sampl	Y/N	(Comp/ Grab)	Matrix	N N N	,					COMMENTS	LAB USE		
52-AD-192321	2	9/23/21	1935 ER	N	G	W	\times							- 31		
S2-AU-092321	4	(0935 1	1)	\times									
33-AD-092321			1030				\times							-33		
S3-AU-092321			1030				\times									
53-CD-692321			1125				\times							-35		
· 53 - CU - 092321			1125				X									
SU- AD -090321			1225				X							-37		
. SU - AM- 092321			1225				X									
54-CD-092321			1318				$\langle \cdot \rangle$							-39		
10 S4 - CN - 092321			1318				\sum									
" SU- BU-192321			1305 ES				X							-41		
254-BD-092321			1220 1				X									
53- BU-092321			1140				\times							-43		
53- BD-092321			1110				\times									
15 SQ - BIA - 192321	11	L	1025	A		T	\times							- 45		
Relinquished B SANA SANATA	Date/Time: Received By: Date/Time: Received By: Date/Time: Received By: Date/Time: Received By:				F/	<u> </u>		Da	9/23/21	1650	Comments	s and Specia	l Analytical Requirement	s:		
Relinquished By:	Date/Time: Received By:				Ò			Da	nte/Time:							
Relinquished By:	Date/Time: Received By:				Date/Tine:											
Received by Laboratory:	Date/Time: Lab Remarks:				Lab: Custody Intact? Custody ☐ Yes ☐ No				Custody Seal No. BNSF COC No							
ORIGINAL - RETURN TO LABORATORY WITH SAMPLES		DUL				DUPLICATE - CONSULTANT								TAL-1001 (0912)		

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				LA	BORAT	ORY IN	FORMAT	ION						LAB WORK	ORDE	Re Page	4	ofy	
BNSF	Laboratory:							Project M	anager:							SHIPMENT INFOR	MATION]
BAILWAY	Address:							Phone:						Shipment Method:]	
CHAIN OF CUSTODY	City/State/ZIP:							Fax:						Tracking Number:					_
BNSF PROJECT INFORMATION	Project State o	f Origin:					C	ONSULT	ANT INF	ORMATI	ON			Project Number: (083-071					
BNSF Project Number: 083-071	Project City:				Company: Farallon consulting								-	Project Mana	ger: A	manda	Wew	aniot]
BNSF Project Name:	Sam:	Ana al la	. 1		Address: 975 5th Ale NW							.,	Email:	MPI	Langet OF	ara	ilan (ar	Jun	
BNSF Project Name: BNSF SKYKOMISH	BNSF Work O	BNSF Work Ordet No.:					Sac			VN				Phone:	25	manda Ugniot Qf -295-08	0		Cov
TURNAROUND TIME	E	ELIVERABLES		Other Del	liverables		سلند غيالين غ ي	F	2, O,	меті	HODS F	OR ANAL	YSIS						
1-day Rush 5- to 8-day Rush	BNSF S	tandard (Level II)							वृथा प्रकाम										
2-day Rush Standard 10-Day	Level III			EDD Req	, Format?	,		Č	3						ı				
3-day Rush Other	Level IV							1	3								1		
	MPLE INFORM	ATION						声	Silica										
		Samp	ole Collection		Filtered	Туре		15	5.1										
Sample Identification	Containers	Date	Time	Sampler	Y/N	(Comp/ Grab)	Matrix	\geq	2							COMMENTS		LAB USE	
51-20-192211	12	9/23/21	6955	ES	IJ	G	W	×											_
52-80-092321 51-80-092321 51-80-092321	1	1	0840		Ì	١	1											-47	_
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Relinquished By:	Date/Time:		Received By:	7			C			Date/Time:									
Refinquished By:	Date/Time:	Received By			Date/Time:]						
Received by Laboratory:	Date/Time:	· · · · · · · · · · · · · · · · · · ·	Lab Remarks:							Lab: Custor		No	Custody Se	al No.		BNSF CO	C No		J
ODICINAL DETUDETO LABORATORY WITH SAMPLES				DÜ	PLICATE	- CONS	ULTANT											TAL-1001 (0912	i)

UPS: Lab Cour: Other: . Unc: FedEx: 4 Therm. ID: 18.9 Cor. 4, Cooler Dsc. 14. Blue Cust, Seal: Yes No X Blue Ice, Vet Dry, None

4.2. Unc. 4.2. FedEx:

UPS:

Lab Cour:

Other: Therm. ID: 182 Cor: Cooler Dsc: 19 Blue Cust. Seal: Yes No K Blue Ice, (Vet, Dry, None 0,15 Packing:

1,6 . Unc. 140 UPS. Lab Cour: FedEx: Other:_ Therm. ID: 18 7 Cor: Cust. Seal: Yes No 34 Blue Ice, (Wet, Dry, None Packing:

Therm ID: IR & Cor: Co. 3 · Unc: Co 5 · Cooler Dsc: 19 B U France FedEx:
UPS:
Lab Cour: Other: Cust. Seal: Yes No X <u>ي</u> د Packing:_

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3 . Unc. 4.

Therm. ID: 18 9 Cor. A

FedEx:

ا د د

Packing:___

UPS: Lab Cour: Other:

Cust. Seal: Yes No & Blue Ice, (Wet, Dry., None

2.6 · Unc: 2.6 ·	FedEx:	Lab Cour:
Therm. ID: 18.9 Cor; 2. Cooler Dsc: 4.9 8/c	Packing: 6726	Cust. Seal: Yes No K Blue Ice, (Wet, Dry, None

FedEx: UPS: Lab Cour: Other:	Leden:
Cooler Dsc: 49 8/c Packing: 52.0 Cust. Seal: Yes No K Blue Ice, (Wet)Dry, None	Therm. ID: R 9 Cor. 1.3 ° Unc. 18 Cooler Dsc: Ly Blue FedEx: Cust. Seal: Yes No K Lab Cour. Blue Ice, (Wet, Dry, None Other:

Therm. ID: 18 3 Cor. 7. Cooler Dsc. Lq Blo. Cust. Seal. Acs No Ac Blue Ice, (Ref) Dry, None Therm. ID: 18 3 Cor1 Cooler Dsc. Cost. Cost. Cost. Cost. Seal: Nes No Ac Cust. Seal: Nes No Ac Cust. Seal: Nes No Ac Cust. Seal: Nes No Ac Blue Ice, (Wet, Dry, None	:)

Login Sample Receipt Checklist

Client: Farallon Consulting LLC Job Number: 580-106108-1

Login Number: 106108 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Blankinship, Tom X

Creator. Diankinship, Toni A		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

America

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-106283-1

Client Project/Site: BNSF Skykomish Rush NPDES

Sampling Event: Skykomish - GAC/HCC

For:

eurofins

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

bacy Dutton

Authorized for release by: 10/6/2021 1:15:32 PM Tracy Dutton, Client Relations Manager (253)380-6574 Tracy.Dutton@Eurofinset.com

Designee for

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

Review your project results through Total Access

Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES Laboratory Job ID: 580-106283-1

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Chronicle	
Certification Summary	
Sample Summary	10
Chain of Custody	
Receipt Chacklists	12

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Case Narrative

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-106283-1

Job ID: 580-106283-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-106283-1

Comments

No additional comments.

Receipt

The samples were received on 9/30/2021 12:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.9° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-369392. Laboratory control sample/laboratory control sample duplicate were created and substituted for MS/MSD/DUP.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-106283-1

Project/Site: BNSF Skykomish Rush NPDES

Glossary

MDL

ML

MPN

MQL

NC

ND

NEG POS

PQL

PRES

QC

RER

RPD TEF

TEQ

TNTC

RL

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-106283-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-92921 Lab Sample ID: 580-106283-1

Date Collected: 09/29/21 06:35

Date Received: 09/30/21 12:05

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)								
Analyte	Result Qualifi	ier RL	MDL Unit	D Prepared	Analyzed	Dil Fac		
#2 Diesel (C10-C24)	3.3	0.062	mg/L	10/01/21 10:17	10/05/21 05:11	1		
Motor Oil (>C24-C36)	0.75	0.092	mg/L	10/01/21 10:17	10/05/21 05:11	1		
Surrogate	%Recovery Qualifi	ier Limits		Prepared	Analyzed	Dil Fac		
o-Terphenyl	79	50 - 150		10/01/21 10:17	10/05/21 05:11	1		

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1,6

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-106283-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: HCC EFF-92921

Date Collected: 09/29/21 06:35 Date Received: 09/30/21 12:05 Lab Sample ID: 580-106283-2

Matrix: Water

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.080		0.062		mg/L		10/01/21 10:17	10/05/21 04:51	1
Motor Oil (>C24-C36)	ND		0.091		mg/L		10/01/21 10:17	10/05/21 04:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	71		50 - 150				10/01/21 10:17	10/05/21 04:51	1

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QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-106283-1

Project/Site: BNSF Skykomish Rush NPDES

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-369392/1-A **Matrix: Water**

Analysis Batch: 369559

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 369392

Dil Fac Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed 10/01/21 10:17 10/05/21 00:50 #2 Diesel (C10-C24) ND 0.065 mg/L Motor Oil (>C24-C36) ND 0.096 mg/L 10/01/21 10:17 10/05/21 00:50

MB MB

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 71 50 - 150 10/01/21 10:17 10/05/21 00:50

LCS LCS

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

%Rec.

Prep Batch: 369392

Added Result Qualifier Limits **Analyte** Unit D %Rec 0.500 50 - 120 #2 Diesel (C10-C24) 0.409 mg/L 82 Motor Oil (>C24-C36) 0.500 0.455 91 64 - 120 mg/L

Spike

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 82 50 - 150

Lab Sample ID: LCSD 580-369392/3-A

Lab Sample ID: LCS 580-369392/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 369559

Analysis Batch: 369559

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 369392

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	 0.500	0.370		mg/L		74	50 - 120	10	26
Motor Oil (>C24-C36)	0.500	0.464		mg/L		93	64 - 120	2	24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl 91

Lab Chronicle

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-92921 Lab Sample ID: 580-106283-1

Date Collected: 09/29/21 06:35 Lab Gample 15. 300-100203-1

Date Received: 09/30/21 12:05

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369392	10/01/21 10:17	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369559	10/05/21 05:11	JAE	FGS SEA

Client Sample ID: HCC EFF-92921 Lab Sample ID: 580-106283-2

Date Collected: 09/29/21 06:35 Matrix: Water

Date Received: 09/30/21 12:05

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369392	10/01/21 10:17	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369559	10/05/21 04:51	JAE	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Job ID: 580-106283-1

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Accreditation/Certification Summary

Client: Farallon Consulting LLC

Job ID: 580-106283-1 Project/Site: BNSF Skykomish Rush NPDES

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date	
Washington	State	C788	07-13-22	

10/6/2021

Eurofins FGS, Seattle

Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-106283-1	Before GAC-92921	Water	09/29/21 06:35	09/30/21 12:05
580-106283-2	HCC EFF-92921	Water	09/29/21 06:35	09/30/21 12:05

Job ID: 580-106283-1

TestAmerica Seattle

Chain of Custody Record

Tes	Ata	m	eri	Ca

5755 8th Street East

Tacoma, WA 98424-1317 phone 253.922.2310 fax 253.922.5047	Regu	ulatory Pr	ogram:	□dw	NPDf	ēS .	RCI	RA	Other:	:								TestAmeric			
Client Contact		Regulatory Program: Dw NPDES Project Manager: Amanda Meugniot										Date	ate: 9-29-21					ICOC No:			
Farallong Consulting		425-295-08		-9		Lah	Lab Contact: Nathan Lawie Car						Carrier:					2 C	COCs		
975 5th Avenue Northwest			Turnaround	d Time		T	9								T s	Sampler:	νπ·	J			
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425) 295-0850 FAX			2 weeks	4		[Z];	_ 8											ab Sampling:	:		
Project Name: Skykomish HCC System			1 week	•		[5]:	_ 3											, -	L		
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VO # TT0100-S03	J		1 day			Ē,	S 8											70 , 00 0			
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sa	NWTPH-Dx w/o silica get cleanup											Sample	e Specific	Notes:	
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reservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=	NaOH; 6= C)ther		1888101816	947775		2	NAME OF STREET		1				700 V	100		30 K#				
ossible Hazard Identification: re any samples from a listed EPA Hazardous Waste? Please L omments Section if the lab is to dispose of the sample.	_ist any EPA	Waste Cor	des for the	sample i	in the	S	ample	e Dispo	osai (/	A fee m	ıay be		Therm	a ID:I	ac9	Cor:	3,9	onger than 1 • Unc: 3	month)		
Non-Hazard Flammable Skin Irritant	Poison		Unkno					teturn to (√ Dis	sposal	Cooler	· Dsc:_		<u> </u>	≥,	FedEx:			
pecial Instructions/QC Requirements & Comments: 1) DxR	x requires s	pecial limi	its 0.208 m	g/L, cun	nulativ	e, Fin	ıal Vc	olume c	of 2 m	L requi	red 2)							UPS:		·	
												,	Cust. S	Seal: Y	es	\0_ <u></u>	J	Lab Cour:_\(\sime\)			
													Blue Io	E. II	P, Dry,	None	•	Other:			
Custody Seals Intact: Yes No	Custody Se							Coc	oler Te	emp. (°C	2): Obs	;'d:		_ Corr'e	d:			erm ID No.:	-		
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Job Number: 580-106283-1

Login Number: 106283 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Vallelunga, Diana L

Creator. Vallelunga, Diana L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins FGS, Seattle



Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-106416-1

Client Project/Site: BNSF Skykomish HCC System

Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 10/8/2021 12:49:17 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish HCC System Laboratory Job ID: 580-106416-1

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Case Narrative

Client: Farallon Consulting LLC

Job ID: 580-106416-1 Project/Site: BNSF Skykomish HCC System

Job ID: 580-106416-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-106416-1

Comments

No additional comments.

Receipt

The samples were received on 10/5/2021 12:35 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.2° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-369754. Laboratory control sample/laboratory control sample duplicate were created and substituted for MS/MSD/DUP.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-106416-1

Project/Site: BNSF Skykomish HCC System

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-106416-1

Project/Site: BNSF Skykomish HCC System

Client Sample ID: Before GAC-10521 Lab Sample ID: 580-106416-1

Date Collected: 10/05/21 07:00 Matrix: Water

Date Received: 10/05/21 12:35

Method: NWTPH-Dx - No	rthwest - Semi-Vola	atile Petro	oleum Prodi	ucts (GC	C)				
Analyte	Result Qu	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.42		0.062		mg/L		10/06/21 10:53	10/07/21 03:19	1
Motor Oil (>C24-C36)	0.22		0.091		mg/L		10/06/21 10:53	10/07/21 03:19	1
Surrogate	%Recovery Qu	ualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150				10/06/21 10:53	10/07/21 03:19	1

7

0

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-106416-1

Project/Site: BNSF Skykomish HCC System

Client Sample ID: HCC EFF-10521

Lead

Lab Sample ID: 580-106416-2

Date Collected: 10/05/21 07:00 **Matrix: Water** Date Received: 10/05/21 12:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.088		0.062		mg/L		10/06/21 10:53	10/07/21 03:39	1
Motor Oil (>C24-C36)	ND		0.092		mg/L		10/06/21 10:53	10/07/21 03:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	67		50 - 150				10/06/21 10:53	10/07/21 03:39	1
Method: 200.8 - Metals (ICP/MS)								
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010		mg/L		10/05/21 18:03	10/06/21 19:43	

0.00040

mg/L

ND

10/8/2021

10/05/21 18:03 10/06/21 19:43

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-369754/1-A

Lab Sample ID: LCS 580-369754/3-A

Matrix: Water

#2 Diesel (C10-C24)

Motor Oil (>C24-C36)

Matrix: Water

Analysis Batch: 369746

Analyte

Analysis Batch: 369746

Client Sample ID: Method Blank

Prep Type: Total/NA

Job ID: 580-106416-1

Prep Batch: 369754

D Prepared Analyzed Dil Fac 10/06/21 10:53 10/07/21 01:39

10/06/21 10:53 10/07/21 01:39

MB MB

MB MB Result Qualifier

ND

ND

Surrogate %Recovery Qualifier I imite Prepared Analyzed Dil Fac o-Terphenyl 55 50 - 150 10/06/21 10:53 10/07/21 01:39

RL

0.065

0.096

MDL Unit

LCS LCS

mg/L

mg/L

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 369754

%Rec. Limits

Added Result Qualifier **Analyte** Unit D %Rec 0.500 50 - 120 #2 Diesel (C10-C24) 0.318 mg/L 64 Motor Oil (>C24-C36) 0.500 0.428 86 64 - 120 mg/L

Spike

LCS LCS

%Recovery Qualifier Limits Surrogate o-Terphenyl 50 - 150 86

Lab Sample ID: LCSD 580-369754/4-A

Matrix: Water

Analysis Batch: 369746

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 369754

Spike LCSD LCSD %Rec. **RPD** Result Qualifier Limits **RPD Analyte** Added Unit D %Rec Limit #2 Diesel (C10-C24) 0.500 0.325 65 50 - 120 2 mg/L 26 Motor Oil (>C24-C36) 0.500 0.469 94 64 - 120 mg/L 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 50 - 150

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-369712/14-A

Matrix: Water

Analysis Batch: 369888

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 369712

MB MB **MDL** Unit **Analyte** Result Qualifier RL Prepared Analyzed Dil Fac 0.0010 Arsenic ND mg/L 10/05/21 18:03 10/06/21 19:40 ND 0.00040 10/05/21 18:03 10/06/21 19:40 Lead mg/L

Lab Sample ID: LCS 580-369712/15-A

Matrix: Water

Analysis Batch: 369888

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 369712

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit n %Rec Limits Arsenic 1.00 1.06 mg/L 106 85 - 115 Lead 1.00 0.955 mg/L 96 85 - 115

Eurofins FGS, Seattle

10/8/2021

Client: Farallon Consulting LLC Job ID: 580-106416-1

Project/Site: BNSF Skykomish HCC System

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-369712/16-A	Client Sample ID: Lab Control Sample Du

Matrix: Water

Analysis Batch: 369888

Prep Type: Total/NA **Prep Batch: 369712 RPD**

Spike LCSD LCSD %Rec. Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit Arsenic 1.00 1.06 mg/L 106 85 - 115 0 20 Lead 1.00 0.959 mg/L 96 85 - 115 20

Lab Sample ID: 580-106200-B-1-C MS **Client Sample ID: Matrix Spike**

Matrix: Water

Analysis Batch: 369888

Prep Type: Total/NA Prep Batch: 369712

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Arsenic ND 1.00 1.10 mg/L 110 70 - 130 ND 1.00 0.991 70 - 130 Lead mg/L 99

Lab Sample ID: 580-106200-B-1-D MSD **Client Sample ID: Matrix Spike Duplicate** Prep Type: Total/NA

Matrix: Water

Analyte Arsenic

Lead

Analysis Batch: 369888

11. 303000									Frep Do	ilcii. St	9714	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
	ND		1.00	1.09		mg/L		109	70 - 130	1	20	
	ND		1.00	0.983		mg/L		98	70 - 130	1	20	

Lab Sample ID: 580-106200-B-1-B DU Client Sample ID: Duplicate

Matrix: Water

Analysis Batch: 369888

Prep Type: Total/NA **Prep Batch: 369712** RPD

-	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Arsenic	ND		 ND		mg/L		 NC	20
Lead	ND		ND		mg/L		NC	20

10/8/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-106416-1

Project/Site: BNSF Skykomish HCC System

Client Sample ID: Before GAC-10521

Lab Sample ID: 580-106416-1

Date Collected: 10/05/21 07:00 **Matrix: Water** Date Received: 10/05/21 12:35

Batch Batch Dilution Batch Prepared **Prep Type** Method Factor Number or Analyzed Type Run Analyst Lab Total/NA Prep 3510C 369754 10/06/21 10:53 JHR FGS SEA Total/NA NWTPH-Dx 369746 10/07/21 03:19 ADB FGS SEA Analysis 1

Client Sample ID: HCC EFF-10521 Lab Sample ID: 580-106416-2

Date Collected: 10/05/21 07:00 **Matrix: Water**

Date Received: 10/05/21 12:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369754	10/06/21 10:53	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369746	10/07/21 03:39	ADB	FGS SEA
Total/NA	Prep	200.8			369712	10/05/21 18:03	JLS	FGS SEA
Total/NA	Analysis	200.8		1	369888	10/06/21 19:43	FCW	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

10/8/2021

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-106416-1

Project/Site: BNSF Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

3

4

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Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish HCC System

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-106416-1	Before GAC-10521	Water	10/05/21 07:00	10/05/21 12:35
580-106416-2	HCC EFF-10521	Water	10/05/21 07:00	10/05/21 12:35

Job ID: 580-106416-1

TestAmerica Seattle

Chain of Custody Record

TestAmeric	a
THE RESERVE OF THE PROPERTY OF A STATE OF THE PROPERTY OF THE	200.00

5755 8th Street East

Client Contact	Project N	fanager: A	manda Me	ugniot		Site	e Cor	tact:	Matt E	lowse	г	Date	e: /C ∗	5-2	Ì			COC	No:		
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nments Section if the lab is to dispose of the sample.	<u></u>		r=1			_	,														
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Client: Farallon Consulting LLC

Job Number: 580-106416-1

Login Number: 106416 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Vallelunga, Diana L

Creator. Valleturiga, Diaria L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-106763-1

Client Project/Site: BNSF Skykomish Rush NPDES

Sampling Event: Skykomish - GAC/HCC

Revision: 1

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 11/5/2021 11:34:04 AM

Pauline Matlock, Project Manager (253)922-2310

pauline.matlock@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES Laboratory Job ID: 580-106763-1

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Case Narrative

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-106763-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-106763-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 10/26/2021. The report (revision 1) is being revised due to: Client would like confirmation analysis results reported.

Receipt

The samples were received on 10/19/2021 12:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.9° C.

GC Semi VOA

Method NWTPH-Dx: Continuing calibration verification (CCV) standard associated with batch 580-372173 recovered outside %Drift acceptance criteria for o-Terphenyl surrogate. The %Recovery is within acceptance criteria for the surrogate in the CCV and associated samples; therefore, the data are qualified and reported. Additionally, the samples were re-analyzed in analytical batch 580-371325, and these results have been reported alongside the original values. Affected samples: Before GAC-101421 (580-106763-1), HCC EFF-101421 (580-106763-2) and (CCVRT 580-372173/3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-371281, so an LCS and LCSD were created and used instead.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 580-106763-1

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-106763-1

Project/Site: BNSF Skykomish Rush NPDES

Glossarv

EDL

LOD

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Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)

LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent NEG POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

Reporting Limit or Requested Limit (Radiochemistry) RL

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-106763-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-101421

Lab Sample ID: 580-106763-1

Date Collected: 10/14/21 17:45 **Matrix: Water** Date Received: 10/19/21 12:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.27		0.062		mg/L		10/21/21 18:01	10/22/21 13:18	1
#2 Diesel (C10-C24)	0.30		0.062		mg/L		10/21/21 18:01	11/03/21 01:01	1
Motor Oil (>C24-C36)	0.27		0.092		mg/L		10/21/21 18:01	10/22/21 13:18	1
Motor Oil (>C24-C36)	0.28		0.092		mg/L		10/21/21 18:01	11/03/21 01:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	74		50 - 150				10/21/21 18:01	10/22/21 13:18	1
o-Terphenyl	88		50 ₋ 150				10/21/21 18:01	11/03/21 01:01	1

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-106763-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: HCC EFF-101421

Lab Sample ID: 580-106763-2 Date Collected: 10/14/21 17:45 **Matrix: Water**

Date Received: 10/19/21 12:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.087		0.062		mg/L		10/21/21 18:01	10/22/21 13:37	1
#2 Diesel (C10-C24)	0.086		0.062		mg/L		10/21/21 18:01	11/03/21 01:21	1
Motor Oil (>C24-C36)	0.13		0.092		mg/L		10/21/21 18:01	10/22/21 13:37	1
Motor Oil (>C24-C36)	0.10		0.092		mg/L		10/21/21 18:01	11/03/21 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	73		50 - 150				10/21/21 18:01	10/22/21 13:37	1
o-Terphenyl	84		50 - 150				10/21/21 18:01	11/03/21 01:21	1

Job ID: 580-106763-1

Project/Site: BNSF Skykomish Rush NPDES

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-371281/1-A

Lab Sample ID: LCS 580-371281/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 371325

Analysis Batch: 371325

Client: Farallon Consulting LLC

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 371281

MB MB Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Analyte #2 Diesel (C10-C24) ND 0.065 mg/L 10/21/21 18:01 10/22/21 11:59 Motor Oil (>C24-C36) ND 0.096 mg/L 10/21/21 18:01 10/22/21 11:59

MB MB

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac o-Terphenyl 63 50 - 150 10/21/21 18:01 10/22/21 11:59

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 371281

LCS LCS Spike %Rec. Added Result Qualifier Limits **Analyte** Unit D %Rec 0.500 50 - 120 #2 Diesel (C10-C24) 0.372 mg/L 74 Motor Oil (>C24-C36) 0.500 0.453 91 64 - 120 mg/L

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 81 50 - 150

Lab Sample ID: LCSD 580-371281/3-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Water

Analysis Batch: 371325

Prep Type: Total/NA Prep Batch: 371281

LCSD LCSD Spike %Rec. **RPD** Result Qualifier Limits RPD Analyte Added Unit %Rec Limit #2 Diesel (C10-C24) 0.500 0.373 75 50 - 120 26 mg/L 0 Motor Oil (>C24-C36) 0.500 0.396 79 64 - 120 mg/L 13 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl 82

11/5/2021 (Rev. 1)

Lab Chronicle

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-101421 Lab Sample ID: 580-106763-1

Date Collected: 10/14/21 17:45 Date Received: 10/19/21 12:40

Matrix: Water

Job ID: 580-106763-1

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			371281	10/21/21 18:01	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	371325	10/22/21 13:18	JAE	FGS SEA
Total/NA	Prep	3510C			371281	10/21/21 18:01	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	372173	11/03/21 01:01	W1T	FGS SEA

Lab Sample ID: 580-106763-2 Client Sample ID: HCC EFF-101421

Date Collected: 10/14/21 17:45 **Matrix: Water**

Date Received: 10/19/21 12:40

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			371281	10/21/21 18:01	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	371325	10/22/21 13:37	JAE	FGS SEA
Total/NA	Prep	3510C			371281	10/21/21 18:01	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	372173	11/03/21 01:21	W1T	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-106763-1

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-106763-1	Before GAC-101421	Water	10/14/21 17:45	10/19/21 12:40
580-106763-2	HCC EFF-101421	Water	10/14/21 17:45	10/19/21 12:40

Job ID: 580-106763-1

TestAmerica Seattle

Chain of Custody Record

TestAmerica

5755 8th Street East

Tacoma, WA 98424-1317 TestAmerica Laboratories, Inc. Regulatory Program: Dw NPDES RCRA Other: phone 253,922,2310 fax 253,922,5047 COC No: Date: /0 -/4 - 2 Project Manager: Amanda Meugniot Site Contact: Matt Bowser **Client Contact** COCs of 2 Lab Contact: Nathan Lewis Carrier: Tel/Fax: 425-295-0800 Farallong Consulting **Analysis Turnaround Time** Sampler: 975 5th Avenue Northwest Filtered Sample (Y / N)
Perform MS / MSD (Y / N)
NWTPH-Dx w/o silica gel cleanup For Lab Use Only: CALENDAR DAYS WORKING DAYS Issaguah, Washington Walk-in Client: Phone TAT if different from Below 425) 295-0800 Lab Sampling: FAX (425) 295-0850 2 weeks Project Name: Skykomish HCC System 1 week Job / SDG No.: 2 days WO # TT0100-S03 1 day Sample Type Sample Sample (C=Comp. Matrix Sample Specific Notes: Sample Identification Date Time G=Grab) Cont. ***See instructions below W Before GAC- 10142 Grab HCC EFF- 101421 ***See instructions below Grab W Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. Return to Client Unknown Disposal by Lab Skin Irritant Poison B Flammable Special Instructions/QC Requirements & Comments: 1) DxRx requires special limits 0.208 mg/L, cumulative, Final Volume of 2 mL required 2) No silica get cleanup needed for Dx Therm ID No. Corr'd: Cooler Temp. (°C): Obs'd: Custody Seal No.: Custody Seals Intact:7 No Date/Time: Received by: Company: Relinguished by Company:

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Glaeux

Company: TENCIL

Page 11 of 12

Received by:

Received in Laboratory by:

Date/Time: 12:0

Date/Time:

11/5/2021 (Rev. 1)

Date/Time:

12/18/20 Date/Time:

Client: Farallon Consulting LLC

Job Number: 580-106763-1

Login Number: 106763 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Vallelunga, Diana L

Ouestien	Anguar	Commont
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-106942-1

Client Project/Site: BNSF Skykomish HCC System

Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 10/31/2021 2:30:17 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

Review your project results through

Total Access

Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish HCC System Laboratory Job ID: 580-106942-1

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Case Narrative

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish HCC System

Job ID: 580-106942-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-106942-1

Comments

No additional comments.

Receipt

The samples were received on 10/26/2021 1:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 14.6° C.

Receipt Exceptions

The following sample(s) was received at the laboratory outside the required temperature criteria:14.6/14.9

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-371693. So laboratory control sample/laboratory control sample duplicate were created and substituted for MS/MSD/DUP.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 580-106942-1

3

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9

Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-106942-1

Project/Site: BNSF Skykomish HCC System

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

MQL

MDL

MPN

ML

NC

Not Calculated

ND

Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent NEG POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number Method Quantitation Limit

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-106942-1

Project/Site: BNSF Skykomish HCC System

Client Sample ID: Before GAC Lab Sample ID: 580-106942-1

Date Collected: 10/22/21 06:00 Matrix: Water

Date Received: 10/26/21 13:15

Method: NWTPH-Dx - No	orthwest - Semi-Volatile	e Petroleum Prod				
Analyte	Result Qualit	fier RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.34	0.062	mg/L	10/27/21 10:5	4 10/30/21 06:19	1
Motor Oil (>C24-C36)	0.29	0.092	mg/L	10/27/21 10:5	4 10/30/21 06:19	1
Surrogate	%Recovery Quality	fier Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	85	50 - 150		10/27/21 10:5	10/30/21 06:19	1

6

Q

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-106942-1

Project/Site: BNSF Skykomish HCC System

Client Sample ID: HCC EFF Lab Sample ID: 580-106942-2 Date Collected: 10/22/21 06:00

Matrix: Water

Date Received: 10/26/21 13:15

Analyte	Result Qu	ıalifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.10	0.062	mg/L		10/27/21 10:54	10/30/21 06:38	1
Motor Oil (>C24-C36)	0.097	0.091	mg/L		10/27/21 10:54	10/30/21 06:38	1
Surrogate	%Recovery Qu	ıalifier Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	<u></u>	50 - 150			10/27/21 10:54	10/30/21 06:38	1

QC Sample Results

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-371693/1-A

Lab Sample ID: LCS 580-371693/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 371896

Analysis Batch: 371896

Client Sample ID: Method Blank

Prep Type: Total/NA

Job ID: 580-106942-1

Prep Batch: 371693

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	0.065	mg/L		10/27/21 10:54	10/30/21 04:22	1
Motor Oil (>C24-C36)	ND	0.096	mg/L		10/27/21 10:54	10/30/21 04:22	1

MB MB

MR MR

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 81 50 - 150 10/27/21 10:54 10/30/21 04:22

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 371693

	Spike	LCS	LUS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
#2 Diesel (C10-C24)	0.500	0.409		mg/L		82	50 - 120	
Motor Oil (>C24-C36)	0.500	0.465		mg/L		93	64 - 120	

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 96 50 - 150

Lab Sample ID: LCSD 580-371693/3-A

Matrix: Water

Analysis Batch: 371896

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 371693

LCSD LCSD RPD Spike %Rec. Added Result Qualifier Unit Limits RPD Limit Analyte %Rec #2 Diesel (C10-C24) 0.500 0.376 75 50 - 120 8 26 mg/L Motor Oil (>C24-C36) 0.500 0.457 91 64 - 120 mg/L 2 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl 94

Eurofins FGS, Seattle

10/31/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-106942-1

Project/Site: BNSF Skykomish HCC System

Client Sample ID: Before GAC

Lab Sample ID: 580-106942-1 Date Collected: 10/22/21 06:00

Matrix: Water

Date Received: 10/26/21 13:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			371693	10/27/21 10:54	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	371896	10/30/21 06:19	ADB	FGS SEA

Client Sample ID: HCC EFF Lab Sample ID: 580-106942-2

Date Collected: 10/22/21 06:00 **Matrix: Water**

Date Received: 10/26/21 13:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			371693	10/27/21 10:54	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	371896	10/30/21 06:38	ADB	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-106942-1

Project/Site: BNSF Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date		
Washington	State	C788	07-13-22		

3

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4.6

Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish HCC System

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-106942-1	Before GAC	Water	10/22/21 06:00	10/26/21 13:15
580-106942-2	HCC EFF	Water	10/22/21 06:00	10/26/21 13:15

Job ID: 580-106942-1

TestAmerica Seattle

Chain of Custody Record 5755 8th Street East

Tacoma, WA 98424-1317

phone 253,922,2310 Tax 253,922,5047	Regi	liatory Pr	ogram:	DW	✓ NPDE	S	RC	RA	Othe	er:									TestAmerica Laborato	ries, Inc
Client Contact	Project I	Manager: A	manda Me	ugniot		Site	e Cor	itact: I	Matt E	owse	r	Da	ite:/(クーで	7-1	. }	*		COC No:	
Farallong Consulting	Tel/Fax:	425-295-08	300			Lat	o Con	tact: I	Natha	n Lew	is	Ca	rrier:					-,,,-		ŝ
975 5th Avenue Northwest		Analysis 1	Turnaround	d Time		П	5	TT						1					Sampler: 'TW	
Issaquah, Washington	CALE	NDAR DAYS	∷ wo	RKING DA	YS] [N) cleanup												For Lab Use Only:	
(425) 295-0800 Phone	T/	AT if different f	from Below	3du	<u> </u>	1 :	힏												Walk-in Client:	
(425) 295-0850 FAX			2 weeks)	2	Z age												Lab Sampling:	
Project Name: Skykomish HCC System			1 week			 ≽ ;	SD (Y												<u></u>	
Site:			2 days			0	ASI o si								ĺ				Job / SDG No.:	
WO # TT0100-S03			1 day			ΙĝΙ.	S / M													
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sa	NWTPH-Dx w/o silica gel												Sample Specific Note	es:
Before GAC- / O こここ)	10 22-21	600	Grab	w	2		x												***See instructions below	
HCC EFF- 102721	10-22-21	600	Grab	w	2		×												***See instructions below	
						Ш														
					*															
														•••						
																				
															580-	1069		hain d	of Custody	
															300	1000				
reservation Used: 1= ice, 2= HCl; 3= H2SO4; 4=HNO3; 5	=NaOH; 6= C)ther	de elektronik sedig	Gran Area	સીજા જેવાં હોય		2	900		1		100	WW I	¥ }\$	1334	10 (A)				
Possible Hazard Identification: The any samples from a listed EPA Hazardous Waste? Please Comments Section if the lab is to dispose of the sample.	List any EPA	Waste Cod	des for the	sample i	n the	S	ample	· Disp	osal (A fee	may be	ass	essec	iifsa	ımple	s are	reta	ined	longer than 1 month)	
Non-Hazard Flammable Skin Irritant	Poison		Unkno	wn		丄	Re	eturn to	Client		_ಾ	isposa	l by Lai	2		Arc	hive fo	or	Months	
pecial Instructions/QC Requirements & Comments: 1) Dx			ts 0.208 m	g/L, cun	nulative	e, Fin	ial Vo						silica	get	clean	up no	eeded	d for	Dx	
Custody Seals Intact: Yes No	Custody Se	eal No.:							oler T	emp. (ိုင္က): Ob	s'dː		(Corr'd			7	herm ID No.:	
delinguist of the second of th	Company:	.		Date/Tin (0/2≤	ne: ∐ 3	7 Re	eceive	d by		<u> </u>	4	<u> </u>	C	ompar ()	ry: ALL	w			Date/Time:	
Relinguisted by:	Company:	cr		Date/Tin /0/25	Je.	Re	eceive	d by:	77					mpar	ny:			10	Date/Time: 10/25/21 (2:10)-	
Relinquished by:	Company:			Date/Tim			ceive	d in h	aborat	ory by				mpe				Ī	Date/Time: / 13/5	_@14

Page 11 of 12 A 2= 14.6/14.9

Form No. CA-C-Wi-002, Rev. 4.18, dated 9/5/2018 14 Blued WISCS

R. L. Hel

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-106942-1

Login Number: 106942 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Vallelunga, Diana L

Creator: Vallelunga, Diana L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-106975-1

Client Project/Site: BNSF Skykomish Rush NPDES

Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 11/1/2021 1:26:06 PM

Nathan Lewis, Project Manager I (253)922-2310

Nathan.Lewis@Eurofinset.com

LINKS

Review your project results through

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES Laboratory Job ID: 580-106975-1

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Case Narrative

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-106975-1

Job ID: 580-106975-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-106975-1

Comments

No additional comments.

Receipt

The samples were received on 10/27/2021 12:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.1° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-371835, so an LCS and an LCSD were created and used instead.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-106975-1

Project/Site: BNSF Skykomish Rush NPDES

Glossary

MDL

MPN

MQL NC

ND

NEG POS

PQL

PRES

QC

RER

RPD TEF

TEQ

RL

ML

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

TNTC Too Numerous To Count

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Method Detection Limit

Minimum Level (Dioxin) Most Probable Number

Method Quantitation Limit

Practical Quantitation Limit

Not Detected at the reporting limit (or MDL or EDL if shown)

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

Eurofins FGS, Seattle

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-106975-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-102621 Lab Sample ID: 580-106975-1

Date Collected: 10/26/21 16:30 Matrix: Water

Date Received: 10/27/21 12:45

Method: NWTPH-Dx - No	orthwest - Semi-Volatile Pet	troleum Prod	ucts (GC)			
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.33	0.062	mg/L	10/28/21 14:44	10/30/21 13:23	1
Motor Oil (>C24-C36)	0.22	0.092	mg/L	10/28/21 14:44	10/30/21 13:23	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	68	50 - 150		10/28/21 14:44	10/30/21 13:23	1

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-106975-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: HCC EFF-102621 Lab Sample ID: 580-106975-2

Date Collected: 10/26/21 16:30 Matrix: Water

Date Received: 10/27/21 12:45

Method: NWTPH-Dx - No	rthwest - Semi-Vol	latile Peti	roleum Prodi	ucts (GC	C)				
Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.13		0.062		mg/L		10/28/21 14:44	10/30/21 13:43	1
Motor Oil (>C24-C36)	ND		0.092		mg/L		10/28/21 14:44	10/30/21 13:43	1
Surrogate	%Recovery Q	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	77		50 - 150				10/28/21 14:44	10/30/21 13:43	1

6

q

QC Sample Results

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-371835/1-A

Lab Sample ID: LCS 580-371835/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 371972

Analysis Batch: 371972

Client Sample ID: Method Blank

Prep Type: Total/NA

Job ID: 580-106975-1

Prep Batch: 371835

MB MB Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 10/28/21 14:44 10/30/21 12:03 #2 Diesel (C10-C24) ND 0.065 mg/L Motor Oil (>C24-C36) ND 0.096 mg/L 10/28/21 14:44 10/30/21 12:03

MB MB

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 50 - 150 o-Terphenyl 64 10/28/21 14:44 10/30/21 12:03

LCSD LCSD

mg/L

0.357

0.460

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 371835

LCS LCS Spike %Rec. Added Result Qualifier Limits **Analyte** Unit D %Rec 0.500 50 - 120 #2 Diesel (C10-C24) 0.347 mg/L 69 Motor Oil (>C24-C36) 0.500 0.437 mg/L 87 64 - 120

Spike

Added

0.500

0.500

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 80 50 - 150

Lab Sample ID: LCSD 580-371835/3-A

Matrix: Water

#2 Diesel (C10-C24)

Motor Oil (>C24-C36)

Analyte

Analysis Batch: 371972

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 371835

5

24

RPD %Rec. Result Qualifier Limits RPD Unit %Rec Limit 71 50 - 120 26 mg/L

64 - 120

92

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl 79

Eurofins FGS, Seattle

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-106975-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-102621

Lab Sample ID: 580-106975-1 Date Collected: 10/26/21 16:30

Matrix: Water

Date Received: 10/27/21 12:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			371835	10/28/21 14:44	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	371972	10/30/21 13:23	JAE	FGS SEA

Lab Sample ID: 580-106975-2 Client Sample ID: HCC EFF-102621

Date Collected: 10/26/21 16:30 **Matrix: Water**

Date Received: 10/27/21 12:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			371835	10/28/21 14:44	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	371972	10/30/21 13:43	JAE	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC

Job ID: 580-106975-1 Project/Site: BNSF Skykomish Rush NPDES

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-106975-1	Before GAC-102621	Water	10/26/21 16:30	10/27/21 12:45
580-106975-2	HCC EFF-102621	Water	10/26/21 16:30	10/27/21 12:45

Job ID: 580-106975-1

TestAmerica Seattle

Chain of Custody Record

TestAmerica

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5755 8th Street East

THE LEADER IN ENVIRONMENTAL TESTING 106975 Tacoma WA 98424-1317 TestAmerica Laboratories, Inc. Regulatory Program: Dw phone 253,922,2310 fax 253,922,5047 NPDES RCRA Other: Date: / とってもって ! COC No: Project Manager: Amanda Meugniot Site Contact: Matt Bowser **Client Contact** ス COCs of Carrier: Farallong Consulting Tel/Fax: 425-295-0800 Lab Contact: Nathan Lewis Sampler: "ブレ **Analysis Turnaround Time** 975 5th Avenue Northwest Perform MS / MSD (Y / N) NWTPH-Dx w/o silica gel cleanup For Lab Use Only: ALENDAR DAYS WORKING DAYS Issaquah, Washington Walk-in Client: 425) 295-0800 Phone TAT if different from Below Lab Sampling: FAX (425) 295-0850 2 weeks Project Name: Skykomish HCC System 1 week Job / SDG No.: 2 days WO # TT0100-S03 1 day Sample Type Sample Sample (C=Comp, Sample Specific Notes: Matrix Cont. Sample Identification Date Time G=Grab) 1630 Before GAC-162621 ***See instructions below W Grab 16/36/20 1630 HCC EFF- /02621 ***See instructions below Grab W Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. Return to Client Linknown Skin Irritant Poison B Disposal by Lab Flammable Special Instructions/QC Requirements & Comments: 1) DxRx requires special limits 0.208 mg/L, cumulative, Final Volume of 2 mL required 2) No silica get cleanup needed for Dx Clidro La Blue wet / bub IRE 1,1/1,4

[Cooler Temp. (°C): Obs'd: ________ Corr'd:______ Therm ID No.: Custody Seal No.: Custody Seals Intact: Date/Time: Company: 16 Relinguished box Company: Received by: 6 Giller 126/21 Company: Relinquished by A. M. Date/Time: Received by: Company: 13/17/21/22 Date/Time: Received in Laboratory by: Company: Relinguished by: Company:

Client: Farallon Consulting LLC

Job Number: 580-106975-1

Login Number: 106975 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Blankinship, Tom X

Creator: Blankinship, Tom X		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-107200-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 11/10/2021 2:02:42 PM

Pauline Matlock, Project Manager (253)922-2310

pauline.matlock@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Laboratory Job ID: 580-107200-1

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Receipt Checklists	12

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-107200-1

Job ID: 580-107200-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-107200-1

Comments

No additional comments.

Receipt

The samples were received on 11/4/2021 12:51 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-372786. So laboratory control sample/laboratory control sample duplicate were created and substituted for MS/MSD/DUP.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC
Project/Site: Skykomish HCC System

Job ID: 580-107200-1

Glossary

DL, RA, RE, IN

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** Detection Limit (DoD/DOE) DL

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-107200-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-11421 Lab Sample ID: 580-107200-1

Date Collected: 11/04/21 10:40 Matrix: Water

Date Received: 11/04/21 12:51

Method: NWTPH-Dx - No	rthwest - Semi-Volatile	Petroleum Prod	ucts (GC)				
Analyte	Result Qualific	er RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.52	0.062	mg/L		11/09/21 11:18	11/09/21 16:50	1
Motor Oil (>C24-C36)	0.42	0.091	mg/L		11/09/21 11:18	11/09/21 16:50	1
Surrogate	%Recovery Qualific	er Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	88	50 - 150			11/09/21 11:18	11/09/21 16:50	1

9

Client Sample Results

Job ID: 580-107200-1

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-11421 Lab Sample ID: 580-107200-2 Date Collected: 11/04/21 10:40

Matrix: Water

Date Received: 11/04/21 12:51

Method: NWTPH-Dx - No	orthwest - Semi-Volatile P	ucts (GC)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.062	mg/L		11/09/21 11:18	11/09/21 17:10	1
Motor Oil (>C24-C36)	ND	0.092	mg/L		11/09/21 11:18	11/09/21 17:10	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	74	50 - 150		-	11/09/21 11:18	11/09/21 17:10	1

QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-107200-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-372786/1-A

Lab Sample ID: LCS 580-372786/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 372775

Analysis Batch: 372775

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 372786

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.065	mg/L		11/09/21 11:18	11/09/21 15:50	1
Motor Oil (>C24-C36)	ND	0.096	mg/L		11/09/21 11:18	11/09/21 15:50	1

MB MB

MR MR

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 80 50 - 150 11/09/21 11:18 11/09/21 15:50

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 372786

%Rec.

LCS LCS Spike Added Result Qualifier Limits **Analyte** Unit D %Rec #2 Diesel (C10-C24) 0.500 50 - 120 0.387 mg/L 77 Motor Oil (>C24-C36) 0.500 0.480 96 64 - 120 mg/L

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 93 50 - 150

Lab Sample ID: LCSD 580-372786/3-A

Matrix: Water

Analysis Batch: 372775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 372786

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.396		mg/L		79	50 - 120	2	26
Motor Oil (>C24-C36)	0.500	0.505		mg/L		101	64 - 120	5	24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl 98

Eurofins FGS, Seattle

11/10/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-107200-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-11421

Lab Sample ID: 580-107200-1 Date Collected: 11/04/21 10:40

Matrix: Water Date Received: 11/04/21 12:51

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			372786	11/09/21 11:18	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	372775	11/09/21 16:50	JAE	FGS SEA

Lab Sample ID: 580-107200-2 Client Sample ID: HCC EFF-11421

Date Collected: 11/04/21 10:40 **Matrix: Water**

Date Received: 11/04/21 12:51

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			372786	11/09/21 11:18	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	372775	11/09/21 17:10	JAE	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-107200-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 580-107200-1
 Before GAC-11421
 Water
 11/04/21 10:40
 11/04/21 12:51

 580-107200-2
 HCC EFF-11421
 Water
 11/04/21 10:40
 11/04/21 12:51

1

Job ID: 580-107200-1

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TestAmerica Seattle

Chain of Custody Record

TestAmerica

5755 8th Street East

Client Contact	Project M	lanager: A	manda Me	ugniot		Site	Con	tact: M	att Bo	wser		Dat	e: :	-41-	207	2.\		COC No:
Farallong Consulting	Tel/Fax: 4	425-295-08	00			Lab	Con	tact: Na	athan	Lewis		Cai	rier:					
975 5th Avenue Northwest		Analysis T	Turnaround	Time		T	_											Sampler: TW
Issaquah, Washington		NDAR DAYS		RKING DA	YS	11	gel cleanup											For Lab Use Only:
(425) 295-0800 Phone	TA	T if different f	rom Below	3094	_	1	ΣĮž						l					Wałk-in Client:
(425) 295-0850 FAX			2 weeks				6											Lab Sampling:
Project Name: Skykomish HCC System			1 week			> :	silica											
Site:			2 days				S S											Job / SDG No.:
WO # TT0100-S03			1 day			Sample	0/M											
			Sample				ĒĜ											
Sample Identification	Sample Date	Sample Time	Type (C=Comp, G≂Grab)	Matrix	# of Cont.	Filtered	NWTPH-Dx											Sample Specific Notes:
Before GAC-11421	11/4/21	10:40	Grab	w	2		х											***See instructions below
HCC EFF- 11421	11/4/21	10140	Grab	w	2		х											***See instructions below
						Ш												
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															-	58 0- 1	(III IIII) 0720(Mill Mill Mill Mill Mill Mill Mill Mill
Preservation Used: 1= ice, 2= HCl; 3= H2SO4; 4=HNO3;	5=NaOH; 6= C	Other	MANAGARAN AND				2		MAN W	1								
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please Comments Section if the lab is to dispose of the sample.	se List any EPA		des for the		in the	s		e Dispo	·	A fee n	-			f samş		are re		od longer than 1 month) Months
Special Instructions/QC Requirements & Comments: 1) D					nulativ	e Fir				requi			by Lab silica d	et cle				
opecial instructions to requirements a comments. 1, 5	XIX IEQUII 65 3	special tall		gre, cu	naativ.	e, r 11	iai ve	nume o		L roqui		2,110	sinca ş	JGC 0101	umap	1100		
Custody Seals intagt: Yes No	Custody Se	eal No.:						Coc	oler Te	emp. (°0	C). Ot	os'd:		Cor	r'd:			Therm ID No.:
Relinquished by:	Company:		11/4	Date/Tir Z-i /	12:0) R	eceive	ed by:		M	Mes	Mes	Con	pany:	ab	PXX	۷	Date/Time:///4/21 12:05
Relinquished by:	Company:			Date/Tir			eceive	ed by:	wil	1//		/**/		npany:				Date/Time:
Relinquished by:	Company:			Date/Tir	ne:	R	eceiy	d in La	borato	gry by:			Con	pany:				Date/Time;

Client: Farallon Consulting LLC

Job Number: 580-107200-1

Login Number: 107200 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Blankinship, Tom X

Creator: Biankinsnip, Iom X		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-107316-1

Client Project/Site: BNSF Skykomish HCC System

Sampling Event: Skykomish - GAC/HCC

For:

🔅 eurofins

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 11/15/2021 11:23:21 AM

Pauline Matlock, Project Manager (253)922-2310

pauline.matlock@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish HCC System Laboratory Job ID: 580-107316-1

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Case Narrative

Client: Farallon Consulting LLC

Job ID: 580-107316-1 Project/Site: BNSF Skykomish HCC System

Job ID: 580-107316-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-107316-1

Comments

No additional comments.

Receipt

The samples were received on 11/9/2021 11:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.7° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3510C: The following sample formed emulsions during the extraction procedure: Before GAC-11821 (580-107316-1). These emulsions were broken up using additional sodium sulfate filtration and methylene chloride rinses.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-107316-1

Project/Site: BNSF Skykomish HCC System

Glossary

MDL

ML

MPN

MQL

NC

ND

NEG POS

PQL

PRES

QC

RER

RPD TEF

TEQ

TNTC

RL

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

11/15/2021

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-107316-1

Project/Site: BNSF Skykomish HCC System

Client Sample ID: Before GAC-11821 Lab Sample ID: 580-107316-1

Date Collected: 11/08/21 10:00 Matrix: Water

Date Received: 11/09/21 11:20

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.44		0.062	mg/L		11/11/21 13:41	11/12/21 18:34	1
Motor Oil (>C24-C36)	0.28		0.091	mg/L		11/11/21 13:41	11/12/21 18:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	84		50 - 150			11/11/21 13:41	11/12/21 18:34	1

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-107316-1

Project/Site: BNSF Skykomish HCC System

Date Received: 11/09/21 11:20

o-Terphenyl

Client Sample ID: HCC EFF-11821 Lab Sample ID: 580-107316-2

Date Collected: 11/08/21 10:00

Matrix: Water

11/11/21 13:41 11/12/21 19:14

Method: NWTPH-Dx - Northw	est - Semi-Volatil	e Petroleum Products	(GC)				
Analyte	Result Quali	fier RL N	IDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND	0.062	mg/L		11/11/21 13:41	11/12/21 19:14	1
Motor Oil (>C24-C36)	ND	0.092	mg/L		11/11/21 13:41	11/12/21 19:14	1
Surrogate	%Recovery Quali	fier Limits			Prepared	Analyzed	Dil Fac

50 - 150

QC Sample Results

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish HCC System

Job ID: 580-107316-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-373033/1-A

Lab Sample ID: LCS 580-373033/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 373109

Analysis Batch: 373109

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 373033

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.065		mg/L		11/11/21 13:41	11/12/21 16:33	1
Motor Oil (>C24-C36)	ND		0.096		mg/L		11/11/21 13:41	11/12/21 16:33	1
	MD	MD							

MB MB

MD MD

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 80 50 - 150 11/11/21 13:41 11/12/21 16:33

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 373033

%Rec.

LCS LCS Spike Added Result Qualifier Unit Limits **Analyte** D %Rec #2 Diesel (C10-C24) 0.500 50 - 120 0.378 mg/L 76 Motor Oil (>C24-C36) 0.500 0.500 100 64 - 120

0...:

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 100 50 - 150

Lab Sample ID: LCSD 580-373033/3-A

Matrix: Water

Analysis Batch: 373109

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

mg/L

Prep Batch: 373033

				LCSD				%Rec.		RPD	
		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
(C10-C24)		0.500	0.423		mg/L		85	50 - 120	11	26	
C24-C36)		0.500	0.498		mg/L		100	64 - 120	0	24	
ľ	,	,	(C10-C24) 0.500	(C10-C24) 0.500 0.423	(C10-C24) 0.500 0.423	(C10-C24) 0.500 0.423 mg/L	(C10-C24) 0.500 0.423 mg/L	(C10-C24) 0.500 0.423 mg/L 85	(C10-C24) 0.500 0.423 mg/L 85 50 - 120	(C10-C24) 0.500 0.423 mg/L 85 50 - 120 11	(C10-C24) 0.500 0.423 mg/L 85 50 - 120 11 26

1 00D 1 00D

LCSD LCSD Surrogate %Recovery Qualifier Limits 100 50 - 150 o-Terphenyl

11/15/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-107316-1

Project/Site: BNSF Skykomish HCC System

Client Sample ID: Before GAC-11821 Lab Sample ID: 580-107316-1

Date Collected: 11/08/21 10:00 Matrix: Water

Date Received: 11/09/21 11:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			373033	11/11/21 13:41	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	373109	11/12/21 18:34	JAE	FGS SEA

Client Sample ID: HCC EFF-11821 Lab Sample ID: 580-107316-2

Date Collected: 11/08/21 10:00 Matrix: Water

Date Received: 11/09/21 11:20

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	3510C			373033	11/11/21 13:41	JHR	FGS SEA
l	Total/NA	Analysis	NWTPH-Dx		1	373109	11/12/21 19:14	JAE	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

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Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-107316-1

Project/Site: BNSF Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

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Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish HCC System

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-107316-1	Before GAC-11821	Water	11/08/21 10:00	11/09/21 11:20
580-107316-2	HCC EFF-11821	Water	11/08/21 10:00	11/09/21 11:20

Job ID: 580-107316-1



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	THE FEADER IN ENVIRONMENTAL TESTING

580-107-07-0	Regu	latory Pro	ogram:	DW	🗌 NPDI	ES	RC	RA	Oth	er:											Tes	tAmer	ica Lal	borati	ories,	Inc
Client Contact	Project N	fanager: A	manda Me	ugniot		Site	e Cor	ıtact:	Matt	Bow	ser Date: i i / 😤						21				COC	COC No:				
Farallong Consulting	Tel/Fax:	425-295-08	00			Lat	o Con	tact:	Natha	an Le	wis			arrie								1 of	ゑ	COC	s	
975 5th Avenue Northwest		Analysis T	urnaroun	d Time		Л	9							Τ		Τ	Π				Samp	oler:	.4	TW)	
Issaquah, Washington	CALEI	NDAR DAYS	wc	ORKING DA	YS] [// MSD (Y/N) w/o silica gel cleanup														For L	ab Use	Only:			
(425) 295-0800 Phone	T#	AT if different f	rom Below _	3000	L		2 2											ĺ			Walk	-in Clien	it:	1		
(425) 295-0850 FAX		;	2 weeks	<	J	2	> 🖁	1 1													Lab S	Sampling	j :			
Project Name: Skykomish HCC System			i week			Σ	≝ اٰٰ																			
Site:		;	2 days			릙	S S														Job /	SDG No).:			
WO # TT0100-S03			l day			Ī	X S																			
Sample Identification	Sample Date	Sample Time	Sample Type (C≃Comp, G≖Grab)	Matrix	# of Cont.	Filtered S	Perform MS / MSD (Y / N) NWTPH-Dx w/o silica gel clea								-							Sampl	le Speci	ific No	tes:	
Before GAC- [[82 [11/8/21	1000	Grab	w	2		х														***Se	e instruc	tions b	elow		
HCC EFF- 1(821	11/8/21	10:30	Grab	w	2		х														***Se	e instruc	tions be	elow		
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reservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=	NaOH; 6= C	Other	0300000000	1.000 (01/1)	900H : 180		2		¥ (1)	1					18/0							N. S. (V.)	XXXX 13			
Possible Hazard Identification: ure any samples from a listed EPA Hazardous Waste? Please L Comments Section if the lab is to dispose of the sample.					n the	S	ample	e Dis	posal	(Af	ee m	ay b	e ass	ess	ed if	sar	nple	es a	re re	tain	ed longe	r than 1	month	1)		
Non-Hazard Flammable Skin Irritant	Poison		Unkno	own			R	eturn t	o Client			√ [Dispos	l by	Lab			A	rchive	for_		Months				┙
pecial Instructions/QC Requirements & Comments: 1) DxR	requires s	pecial limi	ts 0.208 m	ıg/L, cun	nulativ	e, Fir	nai Vo	olume	of 2 :	mL r	equii	red :	2) No	sili	ca g	et c	lean	up i	need	ed f	or Dx					
Custody Seals Intacty Yes No	Custody Se	eal No.:	······································	······································				C	ooler T	Temp). (°C): OL	os'd;			С	orr'd	:			Therm	ID No.:		••••		ᅥ
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Page 11 of 12

IL8 0.7/1,0 GB R.L/r. 11/20

Client: Farallon Consulting LLC

Job Number: 580-107316-1

Login Number: 107316 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Greene, Ashton R

Grouter: Ground, Admits R		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-107527-1

Client Project/Site: BNSF Skykomish HCC System

Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 11/19/2021 7:43:48 PM

Pauline Matlock, Project Manager (253)922-2310

pauline.matlock@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish HCC System Laboratory Job ID: 580-107527-1

Table of Contents

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Case Narrative

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish HCC System

Job ID: 580-107527-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-107527-1

Comments

No additional comments.

Receipt

The samples were received on 11/16/2021 12:03 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 8.9° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed: The sampling time has been omitted. Sampling time was logged in per container labels.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-373766. So laboratory control sample/laboratory control sample duplicate were created and substituted for MS/MSD/DUP.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 580-107527-1

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-107527-1

Project/Site: BNSF Skykomish HCC System

Glossary

MDC

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Concentration (Radiochemistry)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-107527-1

Project/Site: BNSF Skykomish HCC System

Client Sample ID: Before GAC-111621 Lab Sample ID: 580-107527-1

Date Collected: 11/16/21 08:45

Date Received: 11/16/21 12:03

Method: NWTPH-Dx - No	orthwest - Semi-Volatile P	etroleum Prod	ucts (GC)			
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.36	0.062	mg/L	11/18/21 15:56	11/19/21 16:23	1
Motor Oil (>C24-C36)	0.18	0.091	mg/L	11/18/21 15:56	11/19/21 16:23	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	74	50 - 150		11/18/21 15:56	11/19/21 16:23	1

0

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-107527-1

Project/Site: BNSF Skykomish HCC System

Lab Sample ID: 580-107527-2 Client Sample ID: HCC EFF-111621

Date Collected: 11/16/21 08:45 **Matrix: Water**

Date Received: 11/16/21 12:03

Analyte	Result Qua	ıalifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.062	mg/L		11/18/21 15:56	11/19/21 16:43	1
Motor Oil (>C24-C36)	ND	0.092	mg/L		11/18/21 15:56	11/19/21 16:43	1
Surrogate	%Recovery Qua	ualifier Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	70	50 - 150			11/18/21 15:56	11/19/21 16:43	1

Method: 200.8 - Metals (ICP/MS)									
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010		mg/L		11/16/21 20:09	11/17/21 08:32	1
Lead	ND		0.00040		mg/L		11/16/21 20:09	11/17/21 08:32	1

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-373766/1-A

Lab Sample ID: LCS 580-373766/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 373811

Analysis Batch: 373811

Client Sample ID: Method Blank

Prep Type: Total/NA

Job ID: 580-107527-1

Prep Batch: 373766

Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Analyte #2 Diesel (C10-C24) ND 0.065 mg/L 11/18/21 15:56 11/19/21 15:02 Motor Oil (>C24-C36) ND 0.096 mg/L 11/18/21 15:56 11/19/21 15:02

MB MB

MB MB

Surrogate %Recovery Qualifier I imite Prepared Analyzed Dil Fac o-Terphenyl 63 50 - 150 11/18/21 15:56 11/19/21 15:02

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 373766

Spike LCS LCS %Rec. Added Result Qualifier Limits **Analyte** Unit D %Rec 0.500 0.370 50 - 120 #2 Diesel (C10-C24) mg/L 74 Motor Oil (>C24-C36) 0.500 0.417 83 64 - 120 mg/L

LCS LCS

%Recovery Qualifier Limits Surrogate o-Terphenyl 50 - 150 85

Lab Sample ID: LCSD 580-373766/3-A

Matrix: Water

Analysis Batch: 373811

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 373766**

Spike LCSD LCSD %Rec. **RPD** Result Qualifier Limits **RPD Analyte** Added Unit D %Rec Limit #2 Diesel (C10-C24) 0.500 0.359 72 50 - 120 mg/L 26 Motor Oil (>C24-C36) 0.500 0.429 86 64 - 120 mg/L 3 24

LCSD LCSD

MB MB

Surrogate %Recovery Qualifier Limits o-Terphenyl 50 - 150

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-373522/14-A

Matrix: Water

Analysis Batch: 373579

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 373522

MDL Unit **Analyte** Result Qualifier RL D Prepared Analyzed Dil Fac 0.0010 Arsenic ND mg/L 11/16/21 20:09 11/17/21 08:20 ND 0.00040 11/16/21 20:09 11/17/21 08:20 Lead mg/L

Lab Sample ID: LCS 580-373522/15-A

Matrix: Water

Analysis Batch: 373579

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 373522

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit n %Rec Limits Arsenic 1.00 0.933 mg/L 93 85 - 115 Lead 1.00 1.01 mg/L 101 85 - 115

Eurofins FGS, Seattle

11/19/2021

Client: Farallon Consulting LLC

Job ID: 580-107527-1 Project/Site: BNSF Skykomish HCC System

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-373522/16-A Client Sample ID: Lab Control Sample Dup

Matrix: Water

Lead

Prep Type: Total/NA **Analysis Batch: 373579** Prep Batch: 373522

LCSD LCSD Spike %Rec. **RPD** Analyte Added Result Qualifier Unit %Rec Limits RPD Limit D Arsenic 1.00 0.930 mg/L 93 85 - 115 0 20 Lead 1.00 1.01 mg/L 101 85 - 115 20

Lab Sample ID: 580-107527-2 MS Client Sample ID: HCC EFF-111621 **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 373579** Prep Batch: 373522

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Arsenic ND 1.00 0.935 mg/L 93 70 - 130 ND 1.00 1.01 101 70 - 130 Lead mg/L

Lab Sample ID: 580-107527-2 MSD Client Sample ID: HCC EFF-111621 **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 373579 Prep Batch: 373522** Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier RPD Result Qualifier Added Limits Analyte D %Rec Limit Unit 2 Arsenic ND 1.00 0.957 mg/L 96 70 - 130 20

Client Sample ID: HCC EFF-111621 Lab Sample ID: 580-107527-2 DU **Matrix: Water** Prep Type: Total/NA

1.04

mg/L

104

70 - 130

1 00

Analysis Batch: 373579

ND

Prep Batch: 373522 Sample Sample DU DU **RPD** RPD Analyte Result Qualifier Result Qualifier Unit D Limit ND NC Arsenic ND mg/L 20 ND ND mg/L NC 20 Lead

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-107527-1

Project/Site: BNSF Skykomish HCC System

Client Sample ID: Before GAC-111621

Lab Sample ID: 580-107527-1 Date Collected: 11/16/21 08:45

Matrix: Water

Date Received: 11/16/21 12:03

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			373766	11/18/21 15:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	373811	11/19/21 16:23	ADB	FGS SEA

Lab Sample ID: 580-107527-2 Client Sample ID: HCC EFF-111621

Matrix: Water Date Collected: 11/16/21 08:45

Date Received: 11/16/21 12:03

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			373766	11/18/21 15:56	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	373811	11/19/21 16:43	ADB	FGS SEA
Total/NA	Prep	200.8			373522	11/16/21 20:09	ABP	FGS SEA
Total/NA	Analysis	200.8		1	373579	11/17/21 08:32	FCW	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-107527-1

Project/Site: BNSF Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

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Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish HCC System

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-107527-1	Before GAC-111621	Water	11/16/21 08:45	11/16/21 12:03
580-107527-2	HCC EFF-111621	Water	11/16/21 08:45	11/16/21 12:03

Job ID: 580-107527-1

TestAmerica Seattle

Chain of Custody Record

TestAmerica

5755 8th Street East

Tacoma, WA 98424-1317

phone 253.922.2310 fax 253.922.5047	Regu	latory Pro	ogram: [DW [NPDES	3	RCF	AS	Oth	er:								:: / 1	0-0	TestAmerica Laboratories, Inc
Client Contact	Project N	lanager: A	manda Me	ugniot		Site Contact: Matt Bowser Dat						ite:	11/	4/	21			COC No:		
Farallong Consulting	Tel/Fax: 4	125-295-08	00			Lab	Con	tact:	Natha	an Le	wis		Ca	ırrie	-;					
975 5th Avenue Northwest		Analysis T	urnaround	l Time		П	슠	П										T		Sampler: TW
Issaquah, Washington	CALEN	IDAR DAYS	wo	RKING DAY	YS.		ean													For Lab Use Only:
(425) 295-0800 Phone	TA	T if different f	rom Below 💆	<u> </u>	<i>ا</i> ر	Į	2 2						Ī							Walk-in Client:
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Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered S	NWTPH-Dx w/o silica get cleanup	Total As, Pb (EPA												Sample Specific Notes:
Before GAC- 111 & Z. (11/6/21		Grab	w	2		х													***See instructions below
HCC EFF- 111621	11/16/21		Grab	w	3		Х	х												***See instructions below
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Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HNO3; 5= Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please L Comments Section if the lab is to dispose of the sample.	st any EPA	Waste Cod	les for the	sample ii	n the	Sa	2 mple		posal	1 (Af	ee ma	ay bo	ass	esso	ed if	samı	pies	are r	etaine	ed longer than 1 month)
Non-Hazard Flammable Skin Irritant	Poison	В	Unkno	wn		_ <u></u>	Re	eturn t	o Client			7 E	isposa	l by t	ab		:	Archiv	e for	Months
Special Instructions/QC Requirements & Comments: 1) DxRx	requires s	pecial limi	ts 0.208 m	g/L, cum	nulative	, Fin	al Vo	lume	of 2	mL r	equir									or Dx > A1 8.9/9.2
Custody Seal Intact Yes No	Custody Se								ooler	Temp	o. (°C): Ob	s'd:_			Cor	rd:_			Therm ID No.:
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Relinquished by:	Company:	-1-1-1-6	1	Date/Tim	18:	Re	ceive	d in	Labora	atory	by:	Û			Comp	any:				Date/Time:

Login Sample Receipt Checklist

Client: Farallon Consulting LLC Job Number: 580-107527-1

Login Number: 107527 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Blankinship, Tom X

Creator. Dialikinship, Toni A		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No sample date and/or time on COC, logged in per container labels.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

America

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-107878-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 12/3/2021 4:57:21 PM

Pauline Matlock, Project Manager (253)922-2310

pauline.matlock@eurofinset.com

LINKS

Review your project results through

Total Access

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Laboratory Job ID: 580-107878-1

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-107878-1

Job ID: 580-107878-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-107878-1

Comments

No additional comments.

Receipt

The samples were received on 11/30/2021 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.9° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-107878-1

Project/Site: Skykomish HCC System

Glossary

DLC

Abbreviation	These commonly used abbreviations may or may not be present in this report.								
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis								
%R	Percent Recovery								
CFL	Contains Free Liquid								
CFU	Colony Forming Unit								
CNF	Contains No Free Liquid								
DER	Duplicate Error Ratio (normalized absolute difference)								
Dil Fac	Dilution Factor								
DL	Detection Limit (DoD/DOE)								
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample								

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Decision Level Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent NEG POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-107878-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-112421 Lab Sample ID: 580-107878-1

Date Collected: 11/24/21 07:45

Date Received: 11/30/21 10:10

Method: NWTPH-Dx - No	orthwest - Semi-Volatile P	etroleum Prod	ucts (GC)				
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.23	0.062	mg/L		12/01/21 14:52	12/02/21 20:40	1
Motor Oil (>C24-C36)	0.12	0.092	mg/L		12/01/21 14:52	12/02/21 20:40	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	92	50 - 150			12/01/21 14:52	12/02/21 20:40	1

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Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-107878-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-112421 Lab Sample ID: 580-107878-2

Date Collected: 11/24/21 07:45

Date Received: 11/30/21 10:10

Matrix: Water

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac #2 Diesel (C10-C24) ND 0.062 mg/L <u>12/01/21 14:52</u> <u>12/02/21 21:00</u> Motor Oil (>C24-C36) ND 0.091 12/01/21 14:52 12/02/21 21:00 mg/L

 Surrogate
 %Recovery o-Terphenyl
 Qualifier Discrete
 Limits Discrete
 Prepared Discrete
 Analyzed Discrete
 Dil Fac Discrete

 0-Terphenyl
 74
 50 - 150
 12/01/21 14:52
 12/02/21 21:00
 1

12/3/2021

QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-107878-1 Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-374757/1-A

Matrix: Water

Analysis Batch: 374831

Client Sample ID: Method Blank

12/01/21 14:52 12/02/21 11:39

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 374757

Prep Type: Total/NA

	MB	MB						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	MD		0.065	mg/L		12/01/21 14:52	12/02/21 11:39	1
Motor Oil (>C24-C36)	ND		0.096	mg/L		12/01/21 14:52	12/02/21 11:39	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

50 - 150

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Ma

o-Terphenyl

ab Sample ID: LCS 580-374757/2-A	Client Sample ID: Lab Control Sample
latrix: Water	Prep Type: Total/NA
nalysis Batch: 374831	Prep Batch: 374757

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Prep Batch: 374757 LCS LCS Spike %Rec. Added Result Qualifier Unit Limits **Analyte** D %Rec 0.500 50 - 120 #2 Diesel (C10-C24) 0.458 mg/L 92 Motor Oil (>C24-C36) 0.500 0.512 102 64 - 120 mg/L

LCS LCS Surrogate %Recovery Qualifier Limits o-Terphenyl 105 50 - 150

Lab Sample ID: LCSD 580-374757/3-A

Matrix: Water

Analysis Batch: 374831							Prep Ba	itch: 37	74757
	Spike	LCSD L	CSD				%Rec.		RPD
Analyte	Added	Result C	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	0.500	0.444		mg/L		89	50 - 120	3	26
Motor Oil (>C24-C36)	0.500	0.474		mg/L		95	64 - 120	8	24

LCSD LCSD Surrogate %Recovery Qualifier Limits 109 50 - 150 o-Terphenyl

Eurofins FGS, Seattle

12/3/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-107878-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-112421

Lab Sample ID: 580-107878-1 Date Collected: 11/24/21 07:45

Matrix: Water Date Received: 11/30/21 10:10

Batch Batch Dilution Batch Prepared **Prep Type** Method **Factor** Number or Analyzed Analyst Type Run Lab Total/NA Prep 3510C 374757 12/01/21 14:52 M1E FGS SEA Total/NA NWTPH-Dx 374831 12/02/21 20:40 JAE FGS SEA Analysis 1

Client Sample ID: HCC EFF-112421 Lab Sample ID: 580-107878-2

Date Collected: 11/24/21 07:45 **Matrix: Water**

Date Received: 11/30/21 10:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			374757	12/01/21 14:52	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	374831	12/02/21 21:00	JAE	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-107878-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

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Sample Summary

11/24/21 07:45 11/30/21 10:10

Water

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

HCC EFF-112421

580-107878-2

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 580-107878-1
 Before GAC-112421
 Water
 11/24/21 07:45
 11/30/21 10:10

1

Job ID: 580-107878-1

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TestAmerica Seattle

Chain of Custody Record

TestAmerica
Supplied the same of the same
THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East

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THE LEADE	ER IN ENVIRO	NMENTAL TESTIN

Tacoma, WA 98424-1317 phone 253.922.2310 fax 253.922.5047	Regu	latory Pro	gram: [_ DW _	✓ NPDE	s [RCF	a [Other:										TestAmerica Laboratories,	Inc.
Client Contact	Project M	anager: An	nanda Me	uaniot		Site	Con	tact: M	att Bo	wser		Ъ	ate:	11-2	4-2	T			COC No:	
Farallong Consulting		25-295-080		-0		_		tact: N				_	arrie	, v					2 of 3 COCs	
975 5th Avenue Northwest		Analysis T		1 Time			_		T	T		Ť	T			П		П	Sampler: TW	
Issaquah, Washington		DAR DAYS		RKING DAY	′S	11	l i												For Lab Use Only:	
(425) 295-0800 Phone	TA	T if different fr	om Below	3000	L	1 [2	्री हैं				1						-		Walk-in Client:	
(425) 295-0850 FAX	1 □		weeks	-)		- B												Lab Sampling:	\neg
Project Name: Skykomish HCC System		1	week			I∑I:	:1₽													
Site:		2	days																Job / SDG No.:	
WO # TT0100-S03		1	day			Sample (Y/N)	3										- 1			
			Sample	T		S	ĘĮĝ													
Sample Identification	Sample Date	Sample Time	Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered (NWTPH-Dx w/o silica gel cleanup												Sample Specific Notes:	
Before GAC- 11242	11/29/21	7:45	Grab	w	2		х												***See instructions below	
HCC EFF- 242	11/24/21	7:45	Grab	W	2	П	х												***See instructions below	
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Preservation Used: 1= ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=	NaOH; 6= 0	Other					2			1										
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please L Comments Section if the lab is to dispose of the sample.	ist any EPA	Waste Co	des for the	sample i	in the	19	Samp	le Disp	osai (A fee	may	be a	8888	sed if	sampl	les a	re ret	alnec	l longer than 1 month)	
✓ Non-Hazard Flammable Skin Irritant	Poison		Unkn					Return to	Client		J	Dispo	osal by	Lab			Archive		Months	_
Special Instructions/QC Requirements & Comments: 1) DxR:	requires :	special lim	its 0.208 r	ng/L, cur	mulativ	re, Fi	nał V	olume	of 2 m	ıL req	lniced	2) N	lo sil	ica ge	t clea	nup	neede	ed for	· Dx	
							Lab	Cou	La Bi	U/W	et/	bul	,	42	4.	9/5	,2			
Custody Seals In act:	Custody S	eal No ·				-		Cou	ooler T	emp.	(°C): (Obs'd	l:	,	Corr				Therm ID No.:	
Relinquished by:	Company:			Date/Tir	me:	F	Receiv	ed by:		1	. , , , ,	1		Com	_	_	Service of		Date/Time: 9:44 R	74.0
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Relinquished by:	Company:			Date/Tir	me:	F	Receiv	/ed in L		tory b		سا		Com	pany:				Date/Time: 11/30/21 1010	

Client: Farallon Consulting LLC

Job Number: 580-107878-1

Login Number: 107878 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Vallelunga, Diana L

Creator. Valleturiga, Diaria L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins FGS, Seattle

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-107970-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Knistine D. allen

Authorized for release by: 12/7/2021 6:50:03 PM Kristine Allen, Client Service Manager (253)248-4970 Kristine.Allen@Eurofinset.com

Designee for

Pauline Matlock, Project Manager (253)922-2310 pauline.matlock@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



.....LINKS

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Laboratory Job ID: 580-107970-1

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Case Narrative

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Job ID: 580-107970-1

Job ID: 580-107970-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-107970-1

Comments

No additional comments.

Receipt

The samples were received on 12/2/2021 12:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-107970-1

Project/Site: Skykomish HCC System

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DL, RA, RE, IN

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins FGS, Seattle

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-107970-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-12121 Lab Sample ID: 580-107970-1

Date Collected: 12/01/21 13:30 Matrix: Water

Date Received: 12/02/21 12:50

Method: NWTPH-Dx - No	orthwest - Semi-Volatile F	Petroleum Prod	ucts (GC)			
Analyte	Result Qualifier	r RL	MDL Unit	D Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.20	0.063	mg/L	12/06/21 10:27	12/06/21 23:42	1
Motor Oil (>C24-C36)	0.11	0.092	mg/L	12/06/21 10:27	12/06/21 23:42	1
Surrogate	%Recovery Qualifier	r Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	67	50 - 150		12/06/21 10:27	12/06/21 23:42	1

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Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-107970-1

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-12121 Lab Sample ID: 580-107970-2

Date Collected: 12/01/21 13:30 Matrix: Water

Date Received: 12/02/21 12:50

Method: NWTPH-Dx - No	orthwest - Semi-Vo	olatile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.062		mg/L		12/06/21 10:27	12/07/21 00:02	1
Motor Oil (>C24-C36)	ND		0.092		mg/L		12/06/21 10:27	12/07/21 00:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	52		50 - 150				12/06/21 10:27	12/07/21 00:02	1

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QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-107970-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-375093/1-A

Lab Sample ID: LCS 580-375093/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 375163

Analysis Batch: 375163

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 375093

MB MB Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 12/06/21 10:27 12/06/21 22:23 #2 Diesel (C10-C24) ND 0.065 mg/L Motor Oil (>C24-C36) ND 0.096 mg/L 12/06/21 10:27 12/06/21 22:23

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 77 50 - 150 12/06/21 10:27 12/06/21 22:23

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 375093

%Rec.

LCS LCS Spike Added Result Qualifier Limits **Analyte** Unit D %Rec 0.500 50 - 120 #2 Diesel (C10-C24) 0.369 mg/L 74 Motor Oil (>C24-C36) 0.500 0.390 78 64 - 120 mg/L

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 80 50 - 150

Lab Sample ID: LCSD 580-375093/3-A

Matrix: Water

Analysis Batch: 375163

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 375093

LCSD LCSD Spike %Rec. **RPD** Result Qualifier Limits RPD Analyte Added Unit %Rec Limit #2 Diesel (C10-C24) 0.500 0.429 86 50 - 120 26 mg/L 15 Motor Oil (>C24-C36) 0.500 0.430 86 64 - 120 mg/L 10 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl 91

12/7/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-107970-1 Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-12121 Lab Sample ID: 580-107970-1 Date Collected: 12/01/21 13:30

Matrix: Water

Date Received: 12/02/21 12:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			375093	12/06/21 10:27	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	375163	12/06/21 23:42	ADB	FGS SEA

Lab Sample ID: 580-107970-2 Client Sample ID: HCC EFF-12121

Date Collected: 12/01/21 13:30 Matrix: Water

Date Received: 12/02/21 12:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			375093	12/06/21 10:27	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	375163	12/07/21 00:02	ADB	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Eurofins FGS, Seattle

Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-107970-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Job ID: 580-107970-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-107970-1	Before GAC-12121	Water	12/01/21 13:30	12/02/21 12:50
580-107970-2	HCC EFF-12121	Water	12/01/21 13:30	12/02/21 12:50

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TestAmerica Seattle

Chain of Custody Record

Tes	t _A r	ner	ica

5755 8th Street East

Tacoma, WA 98424-1317

107970

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

phone 253.922.2310 fax 253.922.5047	Regu	latory Pro	ogram:	DW	NPDES	5 [RCF	AS 🗍	Other:				10	/ [/	7 0	,	TestAmerica La	aboratories, Inc.
Client Contact	Project Manager: Amanda Meugniot S			Site	Con	tact: Ma	att Bov	vser		Date: (2-1-2)					COC No:			
Farallong Consulting	Tel/Fax: 4	25-295-08	00			Lab	Con	tact: Na	than L	_ewis		Carrie	' :				1 of 2	_ COCs
975 5th Avenue Northwest		Analysis T	urnaround			П	đ										Sampler:	L-
Issaquah, Washington		DAR DAYS		RKING DAY			w/o stlica gel cleanup										For Lab Use Only:	
(425) 295-0800 Phone	TA	T if different f	rom Below	304/		(N/X)											Walk-in Client:	1
(425) 295-0850 FAX			Z weeks	,		ΣE) B										Lab Sampling:	
Project Name: Skykomish HCC System			1 week			>	(કું										ļ	<u> </u>
Site:		:	2 days			e S	8										Job / SDG No.:	
WO # TT0100-S03		;	1 day			ES	3											
			Sample	T		S E	Ĝ											
	Sample	Sample	Type		# of	P P	Ē											
Sample Identification	Date	Time	(C≃Comp, G=Grab)	Matrix	Cont.	Filtered Sam	Ž										Sample Spe	cific Notes:
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																		580-107
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=	NaOH: 6= O	ther		- PARENCA C	V. A. V. 1 V.	33.0	2		- N - 1 - 1	1888 188	N 88 V	SAN JAKAN	800 000	2052	31 333	3000 J.M.		
Possible Hazard Identification:						Sa		Dispos			av he a	188088	d if ea	mples	arer	etainer	l d longer than 1 mon	th)
Are any samples from a listed EPA Hazardous Waste? Please L Comments Section if the lab is to dispose of the sample.	ist any EPA	Waste Cod	des for the	sample it	n the				- w. (<i></i>		-,						. ionger man / mon	,
Non-Hazard Flammable Skin Irritant	Poison	3	Unkno	wn		┨		eturn to Cl	iont		Dine	osal by L		r	Archiv	a for	Months	
Special Instructions/QC Requirements & Comments: 1) DxRx					ulative	, Fina	al Vo	lume of	2 mL	requi	ed 2)	No silic				ded for	,	
	•			•														
Custody Seals Intact: Yes No	Custody Se							_	er Ten	np. (°C): Obs'			Corr'd:			Therm ID No.:	
Relinquished by:	Company: ا ما م	ier E	WViso.	Date/Tim ルール	al	Re	ceive	d by	7	<u> </u>	_	T	Compa	ny: Ma	6		Date/Timey / 12/1/21	3:(5
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Page 11,4f <u>12</u>

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LS B Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Client: Farallon Consulting LLC

Job Number: 580-107970-1

Login Number: 107970 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Blankinship, Tom X

Creator. Diankinship, Tolli A		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-108175-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 12/13/2021 9:34:25 PM

Pauline Matlock, Project Manager (253)922-2310

pauline.matlock@eurofinset.com

.....LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-108489-1

Client Project/Site: BNSF Former Fueling Facility

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Peter Kingston

Authorized for release by: 12/31/2021 12:58:48 PM

Pauline Matlock, Project Manager (253)922-2310

pauline.matlock@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Former Fueling Facility Laboratory Job ID: 580-108489-1

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Case Narrative

Client: Farallon Consulting LLC

Project/Site: BNSF Former Fueling Facility

Job ID: 580-108489-1

Job ID: 580-108489-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-108489-1

Comments

No additional comments.

Receipt

The samples were received on 12/16/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.1° C.

Receipt Exceptions

500 mL amber bottles were used for this sample. Proper container is 250 mL or 1 L for this method. This was logged in for the prep method using a volume of 250mL.

GC Semi VOA

Method NWTPH-Dx: Surrogate recovery for the following samples were outside control limits: GW-1-121521 (580-108489-2) and MW-555-121521 (580-108489-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Qualifiers

GC Semi VOA

Qualifier **Qualifier Description** Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

S1-Surrogate recovery exceeds control limits, low biased.

Glossary

DLC

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Decision Level Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Lab Sample ID: 580-108489-1 Client Sample ID: EW-1-121521 Date Collected: 12/15/21 09:15

Matrix: Water

Date Received: 12/16/21 10:00

Method: NWTPH-Dx - No Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.052	0.031	mg/L		12/29/21 14:03	12/30/21 15:12	1
Motor Oil (>C24-C36)	0.078	J	0.17	0.045	mg/L		12/29/21 14:03	12/30/21 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	70		50 - 150				12/29/21 14:03	12/30/21 15:12	1

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Lab Sample ID: 580-108489-2 Client Sample ID: GW-1-121521 Date Collected: 12/15/21 09:47

Matrix: Water

Date Received: 12/16/21 10:00

Analyte		Qualifier	roleum Prod RL	MDL	•	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.053	0.031	mg/L		12/29/21 14:03	12/30/21 15:31	1
Motor Oil (>C24-C36)	0.065	J	0.17	0.046	mg/L		12/29/21 14:03	12/30/21 15:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	42	S1-	50 - 150				12/29/21 14:03	12/30/21 15:31	1

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Client Sample ID: 2A-W-41-121521 Lab Sample ID: 580-108489-3

Date Collected: 12/15/21 10:45

Matrix: Water

Date Received: 12/16/21 10:00

Method: NWTPH-Dx - No	orthwest - Semi-Volatile Pe	troleum Prod	ucts (G0	C)				
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.41	0.052	0.031	mg/L		12/29/21 14:03	12/30/21 15:50	1
Motor Oil (>C24-C36)	0.40	0.16	0.045	mg/L		12/29/21 14:03	12/30/21 15:50	1
Surrogate	%Recovery Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	77	50 - 150				12/29/21 14:03	12/30/21 15:50	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.069		0.052	0.031	mg/L		12/29/21 14:03	12/30/21 20:41	1
Motor Oil (>C24-C36)	ND		0.16	0.045	mg/L		12/29/21 14:03	12/30/21 20:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150				12/29/21 14:03	12/30/21 20:41	1

12/31/2021

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Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Lab Sample ID: 580-108489-4 **Client Sample ID: 2A-W-42-121521**

Date Collected: 12/15/21 12:03 **Matrix: Water** Date Received: 12/16/21 10:00

Method: NWTPH-Dx - No	orthwest - Semi-V	olatile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.089		0.051	0.030	mg/L		12/29/21 14:03	12/30/21 16:10	1
Motor Oil (>C24-C36)	0.15	J	0.16	0.045	mg/L		12/29/21 14:03	12/30/21 16:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	67		50 - 150				12/29/21 14:03	12/30/21 16:10	1

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Client Sample ID: EW-2A-121521 Lab Sample ID: 580-108489-5

Matrix: Water

Date Collected: 12/15/21 14:15 Date Received: 12/16/21 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.052	0.031	mg/L		12/29/21 14:03	12/30/21 16:29	1
Motor Oil (>C24-C36)	ND		0.17	0.045	mg/L		12/29/21 14:03	12/30/21 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	59		50 - 150				12/29/21 14:03	12/30/21 16:29	1

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Client Sample ID: GW-3-121521 Lab Sample ID: 580-108489-6

Date Collected: 12/15/21 10:50 Matrix: Water

Date Received: 12/16/21 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.33		0.058	0.034	mg/L		12/29/21 14:03	12/30/21 16:49	1
Motor Oil (>C24-C36)	0.69		0.18	0.050	mg/L		12/29/21 14:03	12/30/21 16:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	72		50 - 150				12/29/21 14:03	12/30/21 16:49	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.041	J	0.058	0.034	mg/L		12/29/21 14:03	12/30/21 21:00	1
Motor Oil (>C24-C36)	0.31		0.18	0.050	mg/L		12/29/21 14:03	12/30/21 21:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150				12/29/21 14:03	12/30/21 21:00	1

12/31/2021

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Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Client Sample ID: GW-30-121521 Lab Sample ID: 580-108489-7 Date Collected: 12/15/21 11:05

Matrix: Water

Date Received: 12/16/21 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.29		0.056	0.033	mg/L		12/29/21 14:03	12/30/21 17:08	1
Motor Oil (>C24-C36)	0.29		0.18	0.049	mg/L		12/29/21 14:03	12/30/21 17:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	70		50 - 150				12/29/21 14:03	12/30/21 17:08	1

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Client Sample ID: GW-4-121521 Lab Sample ID: 580-108489-8

Date Collected: 12/15/21 14:26 Matrix: Water

Date Received: 12/16/21 10:00

Method: NWTPH-Dx - No	orthwest - Semi-V	olatile Pet	roleum Prod	ucts (G0	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.036	J	0.055	0.032	mg/L		12/29/21 14:03	12/30/21 17:27	1
Motor Oil (>C24-C36)	0.062	J	0.17	0.048	mg/L		12/29/21 14:03	12/30/21 17:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	59		50 - 150				12/29/21 14:03	12/30/21 17:27	1

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Client: Farallon Consulting LLC

Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Client Sample ID: 5-W-43-121521 Lab Sample ID: 580-108489-9

Matrix: Water

Date Collected: 12/15/21 09:09 Date Received: 12/16/21 10:00

Method: NWTPH-Dx - No	orthwest - Semi-V	olatile Pet	roleum Prod	ucts (G0	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.031	J	0.053	0.031	mg/L		12/29/21 14:03	12/30/21 17:47	1
Motor Oil (>C24-C36)	0.087	J	0.17	0.046	mg/L		12/29/21 14:03	12/30/21 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	69		50 - 150				12/29/21 14:03	12/30/21 17:47	1

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Client Sample ID: GW-2-121521 Lab Sample ID: 580-108489-10

Date Collected: 12/15/21 09:47

Matrix: Water

Date Received: 12/16/21 10:00

Method: NWTPH-Dx - No	orthwest - Semi-Volatile P	etroleum Prod	ucts (G	C)				
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.11	0.054	0.032	mg/L		12/29/21 14:03	12/30/21 18:06	1
Motor Oil (>C24-C36)	0.43	0.17	0.047	mg/L		12/29/21 14:03	12/30/21 18:06	1
Surrogate	%Recovery Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	63	50 - 150				12/29/21 14:03	12/30/21 18:06	1

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Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Date Received: 12/16/21 10:00

Client Sample ID: 2A-W-40-121521 Lab Sample ID: 580-108489-11

Date Collected: 12/15/21 10:27

Matrix: Water

Analyzed

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared		
	#2 Diesel (C10-C24)	MD		0.053	0.031	mg/L		12/29/21 14:0		
	(00/ 00/ 000)			~						

#2 Diesel (C10-C24)	ND	0.053	0.031 mg/L	12/29/21 14:03 12/30/21 18:45	1
Motor Oil (>C24-C36)	ND	0.17	0.046 mg/L	12/29/21 14:03 12/30/21 18:45	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fa
o-Terphenyl	58	50 - 150	12/29/21 14:03	12/30/21 18:45	

Dil Fac

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Client Sample ID: 1B-W-23-121521 Lab Sample ID: 580-108489-12

Date Collected: 12/15/21 12:12 East Cample 15: 300-100403-12

Date Collected: 12/15/21 12:12 Matrix: Water Date Received: 12/16/21 10:00

Method: NWTPH-Dx - No	orthwest - Semi-Vola	atile Petrol	eum Prod	lucts (GC	C)				
Analyte	Result Qu	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.054	0.032	mg/L		12/29/21 14:03	12/30/21 19:04	1
Motor Oil (>C24-C36)	ND		0.17	0.047	mg/L		12/29/21 14:03	12/30/21 19:04	1
Surrogate	%Recovery Qu	ualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	58		50 - 150				12/29/21 14:03	12/30/21 19:04	1

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Client Sample ID: MW-555-121521 Lab Sample ID: 580-108489-13

Date Collected: 12/15/21 17:50 Matrix: Water

Date Received: 12/16/21 10:00

Method: NWTPH-Dx - No	rthwest - Semi-Ve	olatile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.059		0.054	0.032	mg/L		12/29/21 14:03	12/30/21 19:23	1
Motor Oil (>C24-C36)	ND		0.17	0.047	mg/L		12/29/21 14:03	12/30/21 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	28	S1-	50 - 150				12/29/21 14:03	12/30/21 19:23	1

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0

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Job ID: 580-108489-1

Client: Farallon Consulting LLC

Project/Site: BNSF Former Fueling Facility

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-377032/1-A

Lab Sample ID: LCS 580-377032/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 377075

Analysis Batch: 377075

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 377032

MB MB Result Qualifier RL **MDL** Unit D Analyzed Dil Fac Analyte Prepared 0.055 #2 Diesel (C10-C24) ND 0.033 mg/L 12/29/21 14:03 12/30/21 11:38 Motor Oil (>C24-C36) ND 0.18 0.048 mg/L 12/29/21 14:03 12/30/21 11:38

MB MB

Qualifier Surrogate %Recovery I imite Prepared Analyzed Dil Fac o-Terphenyl 66 50 - 150 12/29/21 14:03 12/30/21 11:38

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 377032

%Rec.

Spike LCS LCS Added Result Qualifier Limits **Analyte** Unit D %Rec 50 - 120 #2 Diesel (C10-C24) 4.00 2.79 mg/L 70 Motor Oil (>C24-C36) 4.00 3.16 79 64 - 120 mg/L

LCS LCS

%Recovery Qualifier Limits Surrogate o-Terphenyl 50 - 150 80

Lab Sample ID: LCSD 580-377032/3-A

Matrix: Water

Analysis Batch: 377075

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 377032

Spike LCSD LCSD %Rec. **RPD** Result Qualifier Limits **RPD Analyte** Added Unit D %Rec Limit #2 Diesel (C10-C24) 4.00 75 50 - 120 3.01 mg/L 26 Motor Oil (>C24-C36) 4.00 3.54 88 64 - 120 mg/L 11 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 50 - 150

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Lab Sample ID: MB 580-377032/1-B Client Sample ID: Method Blank **Matrix: Water**

Analysis Batch: 377075

MB MB

Prep Type: Total/NA

Prep Batch: 377032

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.055 #2 Diesel (C10-C24) ND 0.033 mg/L 12/29/21 14:03 12/30/21 19:43 ND 0.18 12/29/21 14:03 12/30/21 19:43 Motor Oil (>C24-C36) 0.048 mg/L

MB MB

%Recovery Qualifier Limits Surrogate Prepared Analyzed o-Terphenyl 73 50 - 150 12/29/21 14:03 12/30/21 19:43

Lab Sample ID: LCS 580-377032/2-B

Matrix: Water

Motor Oil (>C24-C36)

Analysis Batch: 377075

Client Sample ID: Lab Control Sample

93

Prep Type: Total/NA

Prep Batch: 377032

LCS LCS Spike %Rec. Added Result Qualifier Limits Analyte Unit %Rec #2 Diesel (C10-C24) 4.00 3.09 77 50 - 120 mg/L

4.00

Eurofins FGS, Seattle

Page 18 of 26

3.71

mg/L

Dil Fac

64 - 120

12/31/2021

QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup (Continued)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
o-Terphenyl	84		50 - 150

Matrix: Water

Analysis Batch: 377075

respirently	04	30 - 130	
ab Sample ID: LCSD 580-3	77032/3 ₋ R		Client Sample ID: Lab
ab Sample ID. LOSD 300-3	1 1 00Z/0-D		Olient Sample ID. Lab

Control Sample Dup Prep Type: Total/NA **Prep Batch: 377032**

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	4.00	3.47		mg/L		87	50 - 120	11	26
Motor Oil (>C24-C36)	4.00	4.49		mg/L		112	64 - 120	19	24

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
o-Terphenyl	94	50 - 150

Client: Farallon Consulting LLC

Project/Site: BNSF Former Fueling Facility

Client Sample ID: EW-1-121521

Date Collected: 12/15/21 09:15 Date Received: 12/16/21 10:00 Lab Sample ID: 580-108489-1

Matrix: Water

		Batch	Batch		Dilution	Batch	Prepared		
l	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
l	Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
l	Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 15:12	JAE	FGS SEA

Client Sample ID: GW-1-121521

Date Collected: 12/15/21 09:47 Date Received: 12/16/21 10:00 Lab Sample ID: 580-108489-2

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 15:31	JAE	FGS SEA

Client Sample ID: 2A-W-41-121521

Date Collected: 12/15/21 10:45 Date Received: 12/16/21 10:00 **Lab Sample ID: 580-108489-3**

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 15:50	JAE	FGS SEA
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Cleanup	3630C			377065	12/29/21 21:48	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 20:41	JAE	FGS SEA

Client Sample ID: 2A-W-42-121521

Date Collected: 12/15/21 12:03

Date Received: 12/16/21 10:00

Lab Sample	ID:	580-1	08489-4

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 16:10	JAE	FGS SEA

Client Sample ID: EW-2A-121521

Date Collected: 12/15/21 14:15

Date Received: 12/16/21 10:00

Lab Sample ID: 580-108489-5
Matrix: Water

watrix: water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 16:29	JAE	FGS SEA

Client Sample ID: GW-3-121521

Date Collected: 12/15/21 10:50

Date Received: 12/16/21 10:00

Lab Sample ID: 580-108489-6

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 16:49	JAE	FGS SEA

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00-100409-1

Client Sample ID: GW-3-121521

Project/Site: BNSF Former Fueling Facility

Date Collected: 12/15/21 10:50 Date Received: 12/16/21 10:00

Client: Farallon Consulting LLC

Lab Sample ID: 580-108489-6

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Cleanup	3630C			377065	12/29/21 21:48	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 21:00	JAE	FGS SEA

Client Sample ID: GW-30-121521

Date Collected: 12/15/21 11:05 Date Received: 12/16/21 10:00 Lab Sample ID: 580-108489-7

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 17:08	JAE	FGS SEA

Client Sample ID: GW-4-121521

Date Collected: 12/15/21 14:26 Date Received: 12/16/21 10:00 Lab Sample ID: 580-108489-8

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 17:27	JAE	FGS SEA

Client Sample ID: 5-W-43-121521

Date Collected: 12/15/21 09:09 Date Received: 12/16/21 10:00 Lab Sample ID: 580-108489-9

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 17:47	JAE	FGS SEA

Client Sample ID: GW-2-121521

Date Collected: 12/15/21 09:47

Date Received: 12/16/21 10:00

Lab Sample ID: 580-108489-10

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 18:06	JAE	FGS SEA

Client Sample ID: 2A-W-40-121521

Date Collected: 12/15/21 10:27

Date Received: 12/16/21 10:00

₋ab Sam	ple ID:	580-1	08489	-11
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Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 18:45	JAE	FGS SEA

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Client Sample ID: 1B-W-23-121521 Lab Sample ID: 580-108489-12

Date Collected: 12/15/21 12:12 Matrix: Water Date Received: 12/16/21 10:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 19:04	JAE	FGS SEA

Client Sample ID: MW-555-121521 Lab Sample ID: 580-108489-13

Date Collected: 12/15/21 17:50 Matrix: Water

Date Received: 12/16/21 10:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 19:23	JAE	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

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Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

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Sample Summary

Client: Farallon Consulting LLC

Project/Site: BNSF Former Fueling Facility

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-108489-1	EW-1-121521	Water	12/15/21 09:15	12/16/21 10:00
580-108489-2	GW-1-121521	Water	12/15/21 09:47	12/16/21 10:00
580-108489-3	2A-W-41-121521	Water	12/15/21 10:45	12/16/21 10:00
580-108489-4	2A-W-42-121521	Water	12/15/21 12:03	12/16/21 10:00
580-108489-5	EW-2A-121521	Water	12/15/21 14:15	12/16/21 10:00
580-108489-6	GW-3-121521	Water	12/15/21 10:50	12/16/21 10:00
580-108489-7	GW-30-121521	Water	12/15/21 11:05	12/16/21 10:00
580-108489-8	GW-4-121521	Water	12/15/21 14:26	12/16/21 10:00
580-108489-9	5-W-43-121521	Water	12/15/21 09:09	12/16/21 10:00
580-108489-10	GW-2-121521	Water	12/15/21 09:47	12/16/21 10:00
580-108489-11	2A-W-40-121521	Water	12/15/21 10:27	12/16/21 10:00
580-108489-12	1B-W-23-121521	Water	12/15/21 12:12	12/16/21 10:00
580-108489-13	MW-555-121521	Water	12/15/21 17:50	12/16/21 10:00

Job ID: 580-108489-1

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ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

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TAL-1001 (0912)

DUPLICATE - CONSULTANT

□ No

Client: Farallon Consulting LLC

Job Number: 580-108489-1

Login Number: 108489 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Greene, Ashton R

Creator. Greene, Ashton N		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	Improper containers received for -13
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins FGS, Seattle

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Laboratory Job ID: 580-108175-1

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Receint Checklists	13

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Eurofins FGS, Seattle 12/13/2021

Case Narrative

Client: Farallon Consulting LLC
Project/Site: Skykomish HCC System

Job ID: 580-108175-1

Job ID: 580-108175-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-108175-1

Comments

No additional comments.

Receipt

The samples were received on 12/8/2021 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-108175-1

Project/Site: Skykomish HCC System

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** Detection Limit (DoD/DOE) DL DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Control of the c

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Client: Farallon Consulting LLC Project/Site: Skykomish HCC System Job ID: 580-108175-1

Client Sample ID: Before GAC-12721 Lab Sample ID: 580-108175-1

Date Collected: 12/07/21 11:00 **Matrix: Water** Date Received: 12/08/21 15:09

Analyte	Result Q	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.43		0.062		mg/L		12/13/21 09:47	12/13/21 17:54	1
Motor Oil (>C24-C36)	0.41		0.091		mg/L		12/13/21 09:47	12/13/21 17:54	1
Surrogate	%Recovery Q	Qualifier L	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	91		50 - 150				12/13/21 09:47	12/13/21 17:54	1

Client: Farallon Consulting LLC Job ID: 580-108175-1

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-12721

Date Collected: 12/07/21 11:00 Date Received: 12/08/21 15:09 Lab Sample ID: 580-108175-2

Matrix: Water

Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.061		mg/L		12/13/21 09:47	12/13/21 18:14	1
Motor Oil (>C24-C36)	ND		0.091		mg/L		12/13/21 09:47	12/13/21 18:14	1
Surrogate	%Recovery Q	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150				12/13/21 09:47	12/13/21 18:14	1

Method: 200.8 - Metals (ICP/MS)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	0.0010	mg/L		12/09/21 13:14	12/12/21 05:43	1
Lead	ND	0.00040	mg/L		12/09/21 13:14	12/12/21 05:43	1

12/13/2021

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Client: Farallon Consulting LLC Job ID: 580-108175-1

Project/Site: Skykomish HCC System Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-375670/1-A

Lab Sample ID: LCS 580-375670/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 375769

Analysis Batch: 375769

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 375670

MB MB Analyte Result Qualifier RL **MDL** Unit D Analyzed Dil Fac Prepared #2 Diesel (C10-C24) ND 0.065 mg/L 12/13/21 09:47 12/13/21 16:14 Motor Oil (>C24-C36) ND 0.096 mg/L 12/13/21 09:47 12/13/21 16:14

MB MB

Surrogate %Recovery Qualifier I imite Prepared Analyzed Dil Fac o-Terphenyl 84 50 - 150 12/13/21 09:47 12/13/21 16:14

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 375670

%Rec.

Spike LCS LCS Added Result Qualifier Limits **Analyte** Unit D %Rec 0.900 50 - 120 #2 Diesel (C10-C24) 1.00 mg/L 90 Motor Oil (>C24-C36) 1.00 0.878 88 64 - 120 mg/L

LCS LCS

%Recovery Qualifier Limits Surrogate o-Terphenyl 102 50 - 150

Lab Sample ID: LCSD 580-375670/3-A

Matrix: Water

Analysis Batch: 375769

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 375670

Spike LCSD LCSD %Rec. **RPD** Result Qualifier Limits RPD **Analyte** Added Unit D %Rec Limit #2 Diesel (C10-C24) 1.00 0.807 81 50 - 120 mg/L 11 26 Motor Oil (>C24-C36) 1.00 0.829 83 64 - 120 6 mg/L 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 105 50 - 150

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-375461/14-A

Matrix: Water

Analysis Batch: 375667

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 375461

MB MB **MDL** Unit **Analyte** Result Qualifier RL Prepared Analyzed Dil Fac 0.0010 Arsenic ND mg/L 12/09/21 13:14 12/11/21 10:36 ND 0.00040 12/09/21 13:14 12/11/21 10:36 Lead mg/L

Lab Sample ID: LCS 580-375461/15-A

Matrix: Water

Analysis Batch: 375667

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 375461

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit n %Rec Limits Arsenic 1.00 0.947 mg/L 95 85 - 115 Lead 1.00 0.989 mg/L 99 85 - 115

Eurofins FGS, Seattle

12/13/2021

Job ID: 580-108175-1

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Method: 200.8 - Metals (ICP/MS) (Continued)

Client Sample	ID: Lab	Control	Sample	Du
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Lab Sample ID: LCSD 580-375461/16-A **Matrix: Water**

Prep Type: Total/NA Prep Batch: 375461

Analysis Batch: 375667 LCSD LCSD Spike %Rec. RPD Limit Analyte Added Result Qualifier Unit D %Rec Limits 85 - 115 20 Arsenic 1.00 0.945 mg/L 95 0 Lead 1.00 0.962 mg/L 96 85 - 115 20

Lab Sample ID: 580-107904-F-1-C MS

Matrix: Water

Client Sample ID: Matrix Spike Prep Type: Total/NA

Analysis Batch: 375667

Prep Batch: 375461

	%Rec.			
С	Limits			
0	70 - 130			

Sample	Sample	Spike	IVIS	M2				%Rec.	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
MD		1.00	1.00		mg/L		100	70 - 130	
ND		1.00	1.05		mg/L		105	70 - 130	
	Result ND		Result ND Qualifier Qualifier 1.00	Result ND Qualifier Qualifier Added 1.00 Result Result 1.00	Result Qualifier Added Result Qualifier 1.00 1.00	Result Qualifier Added Result Qualifier Unit mg/L	Result Qualifier Added Result Qualifier Unit D	Result Qualifier Added Result Qualifier Unit D %Rec 1.00 1.00 1.00 Unit mg/L D %Rec	Result Qualifier Added Result Qualifier Unit D %Rec Limits ND 1.00 1.00 70 - 130

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Lab Sample ID: 580-107904-F-1-D MSD

Prep Type: Total/NA

Analysis Batch: 375667									Prep Ba	itch: 37	75461
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	ND		1.00	1.02		mg/L		102	70 - 130	2	20
Lead	ND		1.00	1.02		mg/L		102	70 - 130	2	20

Lab Sample ID: 580-107904-F-1-B DU

Matrix: Water

Client Sample ID: Duplicate Prep Type: Total/NA

Analysis Batch: 375667	Sample	Sample	DU	DU			Ргер Ва	iten: 37	RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D		RPD	Limit
Arsenic	ND		ND		mg/L		 	NC	20
Lead	ND		ND		mg/L			NC	20

12/13/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-108175-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-12721

Date Collected: 12/07/21 11:00 Date Received: 12/08/21 15:09 Lab Sample ID: 580-108175-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			375670	12/13/21 09:47	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	375769	12/13/21 17:54	JAE	FGS SEA

Lab Sample ID: 580-108175-2 Client Sample ID: HCC EFF-12721

Date Collected: 12/07/21 11:00 **Matrix: Water**

Date Received: 12/08/21 15:09

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			375670	12/13/21 09:47	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	375769	12/13/21 18:14	JAE	FGS SEA
Total/NA	Prep	200.8			375461	12/09/21 13:14	ABP	FGS SEA
Total/NA	Analysis	200.8		1	375675	12/12/21 05:43	FCW	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC

Job ID: 580-108175-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

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Sample Summary

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Lab Sample ID Client Sample ID Matrix Collected Received 580-108175-1 Before GAC-12721 <u>12/07/21 11:00</u> <u>12/08/21 15:09</u> Water 580-108175-2 HCC EFF-12721 Water 12/07/21 11:00 12/08/21 15:09 Job ID: 580-108175-1

TestAmerica Seattle

Chain of (5755 8th Street East





Tacoma, WA 98424-1317

"HE LEADER IN ENVIRONMENTAL TESTING

phone 253.922.2310 fax 253.922.5047	Regu	latory Pro	ogram:	DW	NPDE	S	K.		h										TestAmerica Laboratories, Inc
Client Contact	Project N	lanager: A	manda Me	ugniot		Site	e Co	ntac	t: Ma	att Bo	wser		D	ate: /,	7/7/	121			COC No:
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Login Sample Receipt Checklist

Client: Farallon Consulting LLC Job Number: 580-108175-1

Login Number: 108175 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Presley, Kim A

Creator: Presiey, Kim A		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-108489-1

Client Project/Site: BNSF Former Fueling Facility

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Peter Kingston

Authorized for release by: 12/31/2021 12:58:48 PM

Pauline Matlock, Project Manager (253)922-2310

pauline.matlock@eurofinset.com

.....LINKS

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Former Fueling Facility Laboratory Job ID: 580-108489-1

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Case Narrative

Client: Farallon Consulting LLC

Project/Site: BNSF Former Fueling Facility

Job ID: 580-108489-1

Job ID: 580-108489-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-108489-1

Comments

No additional comments.

Receipt

The samples were received on 12/16/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.1° C.

Receipt Exceptions

500 mL amber bottles were used for this sample. Proper container is 250 mL or 1 L for this method. This was logged in for the prep method using a volume of 250mL.

GC Semi VOA

Method NWTPH-Dx: Surrogate recovery for the following samples were outside control limits: GW-1-121521 (580-108489-2) and MW-555-121521 (580-108489-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Qualifiers

GC Semi VOA

Qualifier **Qualifier Description** Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

S1-Surrogate recovery exceeds control limits, low biased.

Glossary

DLC

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Decision Level Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Lab Sample ID: 580-108489-1 Client Sample ID: EW-1-121521 Date Collected: 12/15/21 09:15

Matrix: Water

Date Received: 12/16/21 10:00

Method: NWTPH-Dx - No Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.052	0.031	mg/L		12/29/21 14:03	12/30/21 15:12	1
Motor Oil (>C24-C36)	0.078	J	0.17	0.045	mg/L		12/29/21 14:03	12/30/21 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	70		50 - 150				12/29/21 14:03	12/30/21 15:12	1

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Lab Sample ID: 580-108489-2 Client Sample ID: GW-1-121521 Date Collected: 12/15/21 09:47

Matrix: Water

Date Received: 12/16/21 10:00

Analyte		Qualifier	roleum Prod RL	MDL	•	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.053	0.031	mg/L		12/29/21 14:03	12/30/21 15:31	1
Motor Oil (>C24-C36)	0.065	J	0.17	0.046	mg/L		12/29/21 14:03	12/30/21 15:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	42	S1-	50 - 150				12/29/21 14:03	12/30/21 15:31	1

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Client Sample ID: 2A-W-41-121521 Lab Sample ID: 580-108489-3

Date Collected: 12/15/21 10:45

Matrix: Water

Date Received: 12/16/21 10:00

Method: NWTPH-Dx - No	orthwest - Semi-Volatile Pe	troleum Prod	ucts (G0	C)				
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.41	0.052	0.031	mg/L		12/29/21 14:03	12/30/21 15:50	1
Motor Oil (>C24-C36)	0.40	0.16	0.045	mg/L		12/29/21 14:03	12/30/21 15:50	1
Surrogate	%Recovery Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	77	50 - 150				12/29/21 14:03	12/30/21 15:50	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.069		0.052	0.031	mg/L		12/29/21 14:03	12/30/21 20:41	1
Motor Oil (>C24-C36)	ND		0.16	0.045	mg/L		12/29/21 14:03	12/30/21 20:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150				12/29/21 14:03	12/30/21 20:41	1

12/31/2021

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Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Lab Sample ID: 580-108489-4 **Client Sample ID: 2A-W-42-121521**

Date Collected: 12/15/21 12:03 **Matrix: Water** Date Received: 12/16/21 10:00

Method: NWTPH-Dx - No	orthwest - Semi-V	olatile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.089		0.051	0.030	mg/L		12/29/21 14:03	12/30/21 16:10	1
Motor Oil (>C24-C36)	0.15	J	0.16	0.045	mg/L		12/29/21 14:03	12/30/21 16:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	67		50 - 150				12/29/21 14:03	12/30/21 16:10	1

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Client Sample ID: EW-2A-121521 Lab Sample ID: 580-108489-5

Matrix: Water

Date Collected: 12/15/21 14:15 Date Received: 12/16/21 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.052	0.031	mg/L		12/29/21 14:03	12/30/21 16:29	1
Motor Oil (>C24-C36)	ND		0.17	0.045	mg/L		12/29/21 14:03	12/30/21 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	59		50 - 150				12/29/21 14:03	12/30/21 16:29	1

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Client Sample ID: GW-3-121521 Lab Sample ID: 580-108489-6

Date Collected: 12/15/21 10:50 Matrix: Water

Date Received: 12/16/21 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.33		0.058	0.034	mg/L		12/29/21 14:03	12/30/21 16:49	1
Motor Oil (>C24-C36)	0.69		0.18	0.050	mg/L		12/29/21 14:03	12/30/21 16:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	72		50 - 150				12/29/21 14:03	12/30/21 16:49	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.041	J	0.058	0.034	mg/L		12/29/21 14:03	12/30/21 21:00	1
Motor Oil (>C24-C36)	0.31		0.18	0.050	mg/L		12/29/21 14:03	12/30/21 21:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150				12/29/21 14:03	12/30/21 21:00	1

12/31/2021

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Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Client Sample ID: GW-30-121521 Lab Sample ID: 580-108489-7 Date Collected: 12/15/21 11:05

Matrix: Water

Date Received: 12/16/21 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.29		0.056	0.033	mg/L		12/29/21 14:03	12/30/21 17:08	1
Motor Oil (>C24-C36)	0.29		0.18	0.049	mg/L		12/29/21 14:03	12/30/21 17:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	70		50 - 150				12/29/21 14:03	12/30/21 17:08	1

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Lab Sample ID: 580-108489-8 Client Sample ID: GW-4-121521 Date Collected: 12/15/21 14:26

Matrix: Water

Date Received: 12/16/21 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.036	J	0.055	0.032	mg/L		12/29/21 14:03	12/30/21 17:27	1
Motor Oil (>C24-C36)	0.062	J	0.17	0.048	mg/L		12/29/21 14:03	12/30/21 17:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	59		50 - 150				12/29/21 14:03	12/30/21 17:27	1

Client: Farallon Consulting LLC

Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Client Sample ID: 5-W-43-121521 Lab Sample ID: 580-108489-9

Matrix: Water

Date Collected: 12/15/21 09:09 Date Received: 12/16/21 10:00

Method: NWTPH-Dx - No	orthwest - Semi-V	olatile Pet	roleum Prod	ucts (G0	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.031	J	0.053	0.031	mg/L		12/29/21 14:03	12/30/21 17:47	1
Motor Oil (>C24-C36)	0.087	J	0.17	0.046	mg/L		12/29/21 14:03	12/30/21 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	69		50 - 150				12/29/21 14:03	12/30/21 17:47	1

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Client Sample ID: GW-2-121521 Lab Sample ID: 580-108489-10

Date Collected: 12/15/21 09:47

Matrix: Water

Date Received: 12/16/21 10:00

Method: NWTPH-Dx - No	orthwest - Semi-Volatile P	etroleum Prod	ucts (G	C)				
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.11	0.054	0.032	mg/L		12/29/21 14:03	12/30/21 18:06	1
Motor Oil (>C24-C36)	0.43	0.17	0.047	mg/L		12/29/21 14:03	12/30/21 18:06	1
Surrogate	%Recovery Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	63	50 - 150				12/29/21 14:03	12/30/21 18:06	1

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Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Date Received: 12/16/21 10:00

Client Sample ID: 2A-W-40-121521 Lab Sample ID: 580-108489-11

Date Collected: 12/15/21 10:27

Matrix: Water

Analyzed

Method: NWTPH-Dx - Nort	:hwest - Semi-V	olatile Petro	oleum Prod	ucts (G0	C)		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared
#2 Diesel (C10-C24)	MD		0.053	0.031	mg/L		12/29/21 14:0
(00/ 00/ 000)			~				

#2 Diesel (C10-C24)	ND	0.053	0.031 mg/L	12/29/21 14:03 12/30/21 18:45	1
Motor Oil (>C24-C36)	ND	0.17	0.046 mg/L	12/29/21 14:03 12/30/21 18:45	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fa
o-Terphenyl	58	50 - 150	12/29/21 14:03	12/30/21 18:45	

Dil Fac

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Client Sample ID: 1B-W-23-121521 Lab Sample ID: 580-108489-12

Date Collected: 12/15/21 12:12 East Cample 15: 300-100403-12

Date Collected: 12/15/21 12:12 Matrix: Water Date Received: 12/16/21 10:00

Method: NWTPH-Dx - No	orthwest - Semi-Vola	atile Petrol	eum Prod	lucts (GC	C)				
Analyte	Result Qu	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND		0.054	0.032	mg/L		12/29/21 14:03	12/30/21 19:04	1
Motor Oil (>C24-C36)	ND		0.17	0.047	mg/L		12/29/21 14:03	12/30/21 19:04	1
Surrogate	%Recovery Qu	ualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	58		50 - 150				12/29/21 14:03	12/30/21 19:04	1

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Client Sample ID: MW-555-121521 Lab Sample ID: 580-108489-13

Date Collected: 12/15/21 17:50 Matrix: Water

Date Received: 12/16/21 10:00

Method: NWTPH-Dx - No	rthwest - Semi-Ve	olatile Pet	roleum Prod	ucts (GC	C)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.059		0.054	0.032	mg/L		12/29/21 14:03	12/30/21 19:23	1
Motor Oil (>C24-C36)	ND		0.17	0.047	mg/L		12/29/21 14:03	12/30/21 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	28	S1-	50 - 150				12/29/21 14:03	12/30/21 19:23	1

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Job ID: 580-108489-1

Client: Farallon Consulting LLC

Project/Site: BNSF Former Fueling Facility

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-377032/1-A

Lab Sample ID: LCS 580-377032/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 377075

Analysis Batch: 377075

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 377032

MB MB Result Qualifier RL **MDL** Unit D Analyzed Dil Fac Analyte Prepared 0.055 #2 Diesel (C10-C24) ND 0.033 mg/L 12/29/21 14:03 12/30/21 11:38 Motor Oil (>C24-C36) ND 0.18 0.048 mg/L 12/29/21 14:03 12/30/21 11:38

MB MB

Qualifier Surrogate %Recovery I imite Prepared Analyzed Dil Fac o-Terphenyl 66 50 - 150 12/29/21 14:03 12/30/21 11:38

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 377032

%Rec.

Spike LCS LCS Added Result Qualifier Limits **Analyte** Unit D %Rec 50 - 120 #2 Diesel (C10-C24) 4.00 2.79 mg/L 70 Motor Oil (>C24-C36) 4.00 3.16 79 64 - 120 mg/L

LCS LCS

%Recovery Qualifier Limits Surrogate o-Terphenyl 50 - 150 80

Lab Sample ID: LCSD 580-377032/3-A

Matrix: Water

Analysis Batch: 377075

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 377032

Spike LCSD LCSD %Rec. **RPD** Result Qualifier Limits **RPD Analyte** Added Unit D %Rec Limit #2 Diesel (C10-C24) 4.00 75 50 - 120 3.01 mg/L 26 Motor Oil (>C24-C36) 4.00 3.54 88 64 - 120 mg/L 11 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 50 - 150

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Lab Sample ID: MB 580-377032/1-B Client Sample ID: Method Blank **Matrix: Water**

Analysis Batch: 377075

MB MB

Prep Type: Total/NA

Prep Batch: 377032

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.055 #2 Diesel (C10-C24) ND 0.033 mg/L 12/29/21 14:03 12/30/21 19:43 ND 0.18 12/29/21 14:03 12/30/21 19:43 Motor Oil (>C24-C36) 0.048 mg/L

MB MB

%Recovery Qualifier Limits Surrogate Prepared Analyzed o-Terphenyl 73 50 - 150 12/29/21 14:03 12/30/21 19:43

Lab Sample ID: LCS 580-377032/2-B

Matrix: Water

Motor Oil (>C24-C36)

Analysis Batch: 377075

Client Sample ID: Lab Control Sample

93

Prep Type: Total/NA

Prep Batch: 377032

LCS LCS Spike %Rec. Added Result Qualifier Limits Analyte Unit %Rec #2 Diesel (C10-C24) 4.00 3.09 77 50 - 120 mg/L

4.00

Eurofins FGS, Seattle

Page 18 of 26

3.71

mg/L

Dil Fac

64 - 120

12/31/2021

QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup (Continued)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
o-Terphenyl	84		50 - 150

Matrix: Water

Analysis Batch: 377075

respirently	04	30 - 130	
ab Sample ID: LCSD 580-3	77032/3 ₋ R		Client Sample ID: Lab
ab Sample ID. LOSD 300-3	1 1 00Z/0-D		Olient Sample ID. Lab

Control Sample Dup Prep Type: Total/NA **Prep Batch: 377032**

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	4.00	3.47		mg/L		87	50 - 120	11	26
Motor Oil (>C24-C36)	4.00	4.49		mg/L		112	64 - 120	19	24

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
o-Terphenyl	94	50 - 150

Client: Farallon Consulting LLC

Project/Site: BNSF Former Fueling Facility

Client Sample ID: EW-1-121521

Date Collected: 12/15/21 09:15 Date Received: 12/16/21 10:00 Lab Sample ID: 580-108489-1

Matrix: Water

		Batch	Batch		Dilution	Batch	Prepared		
l	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
l	Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
l	Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 15:12	JAE	FGS SEA

Client Sample ID: GW-1-121521

Date Collected: 12/15/21 09:47 Date Received: 12/16/21 10:00 Lab Sample ID: 580-108489-2

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 15:31	JAE	FGS SEA

Client Sample ID: 2A-W-41-121521

Date Collected: 12/15/21 10:45 Date Received: 12/16/21 10:00 **Lab Sample ID: 580-108489-3**

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 15:50	JAE	FGS SEA
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Cleanup	3630C			377065	12/29/21 21:48	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 20:41	JAE	FGS SEA

Client Sample ID: 2A-W-42-121521

Date Collected: 12/15/21 12:03

Date Received: 12/16/21 10:00

Lab Sample	ID:	580-1	08489-4

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 16:10	JAE	FGS SEA

Client Sample ID: EW-2A-121521

Date Collected: 12/15/21 14:15

Date Received: 12/16/21 10:00

Lab Sample ID: 580-108489-5
Matrix: Water

watrix: water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 16:29	JAE	FGS SEA

Client Sample ID: GW-3-121521

Date Collected: 12/15/21 10:50

Date Received: 12/16/21 10:00

Lab Sample ID: 580-108489-6

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 16:49	JAE	FGS SEA

Client Sample ID: GW-3-121521

Project/Site: BNSF Former Fueling Facility

Date Collected: 12/15/21 10:50 Date Received: 12/16/21 10:00

Client: Farallon Consulting LLC

Lab Sample ID: 580-108489-6

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Cleanup	3630C			377065	12/29/21 21:48	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 21:00	JAE	FGS SEA

Client Sample ID: GW-30-121521

Date Collected: 12/15/21 11:05 Date Received: 12/16/21 10:00 Lab Sample ID: 580-108489-7

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 17:08	JAE	FGS SEA

Client Sample ID: GW-4-121521

Date Collected: 12/15/21 14:26 Date Received: 12/16/21 10:00

Lab Sample ID: 580-108489-8

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 17:27	JAE	FGS SEA

Client Sample ID: 5-W-43-121521

Date Collected: 12/15/21 09:09

Date Received: 12/16/21 10:00

Lab Sample ID: 580-108489-9

Lab Sample ID: 580-108489-10

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 17:47	JAE	FGS SEA

Client Sample ID: GW-2-121521

Date Collected: 12/15/21 09:47	Matrix: Water
Date Received: 12/16/21 10:00	

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 18:06	JAE	FGS SEA

Client Sample ID: 2A-W-40-121521

Date Collected: 12/15/21 10:27

Date Received: 12/16/21 10:00

Lab Samp	le ID:	580-1	084	89-11	
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Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 18:45	JAE	FGS SEA

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Client Sample ID: 1B-W-23-121521 Lab Sample ID: 580-108489-12

Date Collected: 12/15/21 12:12 Matrix: Water Date Received: 12/16/21 10:00

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Į	Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 19:04	JAE	FGS SEA

Client Sample ID: MW-555-121521 Lab Sample ID: 580-108489-13

Date Collected: 12/15/21 17:50 Matrix: Water

Date Received: 12/16/21 10:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377032	12/29/21 14:03	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377075	12/30/21 19:23	JAE	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

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Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-108489-1

Project/Site: BNSF Former Fueling Facility

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

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Sample Summary

Client: Farallon Consulting LLC

Project/Site: BNSF Former Fueling Facility

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-108489-1	EW-1-121521	Water	12/15/21 09:15	12/16/21 10:00
580-108489-2	GW-1-121521	Water	12/15/21 09:47	12/16/21 10:00
580-108489-3	2A-W-41-121521	Water	12/15/21 10:45	12/16/21 10:00
580-108489-4	2A-W-42-121521	Water	12/15/21 12:03	12/16/21 10:00
580-108489-5	EW-2A-121521	Water	12/15/21 14:15	12/16/21 10:00
580-108489-6	GW-3-121521	Water	12/15/21 10:50	12/16/21 10:00
580-108489-7	GW-30-121521	Water	12/15/21 11:05	12/16/21 10:00
580-108489-8	GW-4-121521	Water	12/15/21 14:26	12/16/21 10:00
580-108489-9	5-W-43-121521	Water	12/15/21 09:09	12/16/21 10:00
580-108489-10	GW-2-121521	Water	12/15/21 09:47	12/16/21 10:00
580-108489-11	2A-W-40-121521	Water	12/15/21 10:27	12/16/21 10:00
580-108489-12	1B-W-23-121521	Water	12/15/21 12:12	12/16/21 10:00
580-108489-13	MW-555-121521	Water	12/15/21 17:50	12/16/21 10:00

Job ID: 580-108489-1

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ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

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NSF Contact:	DM2/ COMMA	BNSF Work	Order No.:	+-)	City/S	iate/ZIP:	<u> </u>	~ × 1 1 1	AVE.	MA	1500		Phone:	25-	394-4445	(10 / Cor 30 1 / Cor 6
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TAL-1001 (0912)

DUPLICATE - CONSULTANT

□ No

Client: Farallon Consulting LLC

Job Number: 580-108489-1

Login Number: 108489 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Greene, Ashton R

Creator. Greene, Ashton N		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	Improper containers received for -13
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins FGS, Seattle

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-108532-1

Client Project/Site: Skykomish HCC System Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 12/22/2021 12:07:10 PM

Pauline Matlock, Project Manager (253)922-2310

pauline.matlock@eurofinset.com

LINKS

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Total Access

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

Laboratory Job ID: 580-108532-1

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Case Narrative

Client: Farallon Consulting LLC
Project/Site: Skykomish HCC System

Job ID: 580-108532-1

Job ID: 580-108532-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-108532-1

Comments

No additional comments.

Receipt

The samples were received on 12/17/2021 2:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was -0.2° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-108532-1

Project/Site: Skykomish HCC System

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** Detection Limit (DoD/DOE) DL DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control** 0C

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Client: Farallon Consulting LLC

Job ID: 580-108532-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-121621 Lab Sample ID: 580-108532-1

Date Collected: 12/16/21 06:30 Matrix: Water

Date Collected: 12/16/21 06:30 Matrix: Water Date Received: 12/17/21 14:15

Method: NWTPH-Dx - No	Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)								
Analyte	Result Qualifie	r RL	MDL Unit	D Prepared	Analyzed	Dil Fac			
#2 Diesel (C10-C24)	0.55	0.055	mg/L	12/21/21 10:18	12/21/21 15:48	1			
Motor Oil (>C24-C36)	0.38	0.18	mg/L	12/21/21 10:18	12/21/21 15:48	1			
Surrogate	%Recovery Qualifie	r Limits		Prepared	Analyzed	Dil Fac			
o-Terphenyl	95	50 - 150		12/21/21 10:18	12/21/21 15:48	1			

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Client: Farallon Consulting LLC

Job ID: 580-108532-1

Project/Site: Skykomish HCC System

Client Sample ID: HCC EFF-121621 Lab Sample ID: 580-108532-2

Date Collected: 12/16/21 06:30 Matrix: Water

Date Received: 12/17/21 14:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.055		mg/L		12/21/21 10:18	12/21/21 16:07	1
Motor Oil (>C24-C36)	ND		0.17		mg/L		12/21/21 10:18	12/21/21 16:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	85		50 - 150				12/21/21 10:18	12/21/21 16:07	1

QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-108532-1

Project/Site: Skykomish HCC System

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-376476/1-A

Lab Sample ID: LCS 580-376476/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 376501

Analysis Batch: 376501

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 376476

	MB MB						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND ND	0.055	mg/L		12/21/21 10:18	12/21/21 14:31	1
Motor Oil (>C24-C36)	ND	0.18	mg/L		12/21/21 10:18	12/21/21 14:31	1
	MB MB						

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac o-Terphenyl 82 50 - 150 12/21/21 10:18 12/21/21 14:31

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 376476

	Spike	LOO	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
#2 Diesel (C10-C24)	4.00	3.30		mg/L		82	50 - 120	
Motor Oil (>C24-C36)	4.00	3.72		mg/L		93	64 - 120	

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 102 50 - 150

Lab Sample ID: LCSD 580-376476/3-A

Matrix: Water

Analysis Batch: 376501

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 376476

Spike LCSD LCSD RPD %Rec. Added Result Qualifier Unit Limits RPD Limit Analyte %Rec #2 Diesel (C10-C24) 4.00 3.51 88 50 - 120 6 26 mg/L Motor Oil (>C24-C36) 4.00 103 64 - 120 4.13 mg/L 10 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 109 50 - 150 o-Terphenyl

Eurofins FGS, Seattle

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-108532-1

Project/Site: Skykomish HCC System

Client Sample ID: Before GAC-121621 Lab Sample ID: 580-108532-1

Date Collected: 12/16/21 06:30 Matrix: Water

Date Received: 12/17/21 14:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			376476	12/21/21 10:18	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	376501	12/21/21 15:48	JAE	FGS SEA

Client Sample ID: HCC EFF-121621 Lab Sample ID: 580-108532-2

Date Collected: 12/16/21 06:30 Matrix: Water

Date Received: 12/17/21 14:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			376476	12/21/21 10:18	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	376501	12/21/21 16:07	JAE	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

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Accreditation/Certification Summary

Client: Farallon Consulting LLC Job ID: 580-108532-1

Project/Site: Skykomish HCC System

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

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Sample Summary

12/16/21 06:30 12/17/21 14:15

Client: Farallon Consulting LLC Project/Site: Skykomish HCC System

HCC EFF-121621

580-108532-2

Lab Sample ID Client Sample ID Matrix Collected Received 12/16/21 06:30 12/17/21 14:15 580-108532-1 Before GAC-121621 Water Water

Job ID: 580-108532-1

TestAmerica Seattle

5755 8th Street East



Chain of Custody Record



Tacoma, WA 98424-1317 phone 253.922.2310 fax 253.922.5047	Reg	ulatory Pro	ogram.	mow (NPDES	c	RCF	CD A	Othe	L									TostAmorica Labo	
Client Contact			Pete Kingsto		.√.NrDC	T			Dthe			 7	Date:	77.	16-	. Da	্বা		TestAmerica Labo	Oratories, inc
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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=	-NaOH; 6= €	Other					2			1				Ħ	Pack	king:		Ľ	Fedex:	3 % 6
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Special Instructions/QC Requirements & Comments: 1) DxRx			ts 0.208 m	g/L, cum	nulative	, Fin	ial Vo	olume	e of 2	mL re	equire	d 2) I	No sili	ica ge	it clea	nup r				
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Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Client: Farallon Consulting LLC

Job Number: 580-108532-1

Login Number: 108532 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Blankinship, Tom X

Creator. Diankinship, Tolli A		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins FGS, Seattle

ANALYTICAL REPORT

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-108687-1

Client Project/Site: BNSF Skykomish Rush NPDES

Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 12/29/2021 5:55:24 PM

Pauline Matlock, Project Manager (253)922-2310

pauline.matlock@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES Laboratory Job ID: 580-108687-1

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Case Narrative

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-108687-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-108687-1

Comments

No additional comments.

Receipt

The samples were received on 12/22/2021 11:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.6° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 580-108687-1

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-108687-1

Project/Site: BNSF Skykomish Rush NPDES

Glossary

MDL

MPN

MQL NC

ND

NEG POS

PQL

PRES

QC

RER RL

RPD TEF

TEQ

TNTC

ML

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number Method Quantitation Limit

Not Detected at the reporting limit (or MDL or EDL if shown)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-108687-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-122121 Lab Sample ID: 580-108687-1

Date Collected: 12/21/21 07:30 Matrix: Water

Date Collected: 12/21/21 07:30 Matrix: Water Date Received: 12/22/21 11:55

Method: NWTPH-Dx - No	rthwest - Semi-Vola	atile Petro	leum Prod	ucts (GC	C)				
Analyte	Result Qu	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.44		0.055		mg/L		12/28/21 15:44	12/29/21 04:53	1
Motor Oil (>C24-C36)	0.36		0.18		mg/L		12/28/21 15:44	12/29/21 04:53	1
Surrogate	%Recovery Qu	ualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	74		50 - 150				12/28/21 15:44	12/29/21 04:53	1

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-108687-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: HCC EFF-122121 Lab Sample ID: 580-108687-2

Date Collected: 12/21/21 07:30 Matrix: Water

Date Received: 12/22/21 11:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.056		mg/L		12/28/21 15:44	12/29/21 05:12	1
Motor Oil (>C24-C36)	ND		0.18		mg/L		12/28/21 15:44	12/29/21 05:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	65		50 - 150				12/28/21 15:44	12/29/21 05:12	1

QC Sample Results

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-108687-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-376932/1-A

Lab Sample ID: LCS 580-376932/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 376807

Analysis Batch: 376807

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 376932

- 1			_						
	Analyte	Result Q	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	#2 Diesel (C10-C24)	ND ND	0.055		mg/L		12/28/21 15:44	12/29/21 03:56	1
	Motor Oil (>C24-C36)	ND	0.18		mg/L		12/28/21 15:44	12/29/21 03:56	1

MB MB

MR MR

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 69 50 - 150 12/28/21 15:44 12/29/21 03:56

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 376932

%Rec.

LCS LCS Spike Added Result Qualifier Unit Limits **Analyte** D %Rec #2 Diesel (C10-C24) 50 - 120 4.00 2.74 mg/L 68 Motor Oil (>C24-C36) 4.00 3.37 mg/L 84 64 - 120

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl 86 50 - 150

Lab Sample ID: LCSD 580-376932/3-A

Matrix: Water

Analysis Batch: 376807

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 376932

7									
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	4.00	2.71		mg/L		68	50 - 120	1	26
Motor Oil (>C24-C36)	4.00	3.26		mg/L		82	64 - 120	3	24

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 o-Terphenyl 83

12/29/2021

Lab Chronicle

Client: Farallon Consulting LLC Job ID: 580-108687-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-122121

Lab Sample ID: 580-108687-1 Date Collected: 12/21/21 07:30

Matrix: Water

Date Received: 12/22/21 11:55

ı		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	3510C			376932	12/28/21 15:44	JBT	FGS SEA
	Total/NA	Analysis	NWTPH-Dx		1	376807	12/29/21 04:53	JAE	FGS SEA

Lab Sample ID: 580-108687-2 Client Sample ID: HCC EFF-122121

Matrix: Water

Date Collected: 12/21/21 07:30 Date Received: 12/22/21 11:55

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			376932	12/28/21 15:44	JBT	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	376807	12/29/21 05:12	JAE	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC

Job ID: 580-108687-1 Project/Site: BNSF Skykomish Rush NPDES

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

Sample Summary

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-108687-1	Before GAC-122121	Water	12/21/21 07:30	12/22/21 11:55
580-108687-2	HCC EFF-122121	Water	12/21/21 07:30	12/22/21 11:55

Job ID: 580-108687-1

TestAmerica Seattle

Chain of Custody Record

TestAmerica

5755 8th Street East

THE LEADER IN ENVIRONMENTAL TESTING Tacoma, WA 98424-1317

phone 253.922.2310 fax 253.922.5047	Regu	latory Pro	ogram:	DW	☑ NPDE	ES .	R	CRA		Other:											TestAmerica	Laboratori	ies, Inc
Client Contact	Project N	lanager: A	manda Me	ugniot		Sit	te Co	ntac	t: Ma	tt Bov	wser		D	ate:	1.2	12	1/2	1			COC No:	$\overline{\omega}$	·
Farallong Consulting	Tel/Fax:	125-295-08	100			La	b Co	ntac	t: Nat	han L	ewis	5	С	arrie	r:							2 COCs	
975 5th Avenue Northwest		Analysis T	Turnaround	d Time		П		3	TT		Τ			Τ	T	Τ	Π		\Box	Т	Sampler:		
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(425) 295-0850 FAX	_ 0	;	2 weeks	0	5	z	<u>کا ج</u> ا	<u>ت</u> 50					Ī						- 1		Lab Sampling:		
Project Name: Skykomish HCC System			1 week			>	G E	ollica Piera															
Site:		;	2 days) 	SE S	Ž								ĺ					Job / SDG No.:		
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Sample Identification	Sample Date	Sample Time	(C≖Comp, G=Grab)	Matrix	# of Cont.	iii	Perform MS / MSD (Y /														Sample S	Specific Notes	s:
Before GAC-[2212\	12/21/21	730	Grab	w	2	Ц	х														***See instruction	ns below	
HCC EFF- 1,2,21,21	12/21/21	730	Grab	w	2	Ш	×														***See instruction	ns below	
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																Blu	e Ice	(W)	et D	ry, N	one Other:		
																				1			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=	=NaOH; 6= C	ther	38.247/6/6/				2		10.333 10	1				18,6	14.5	0.77							
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please Comments Section if the lab is to dispose of the sample.	List any EPA	Waste Co	des for the	sample	in the	ľ	Sam	ole D	ispos	sal (A	l fee	may	be as	sess	sed i	fsa	mple	es ai	re rei	taine	ed longer than 1 m	onth)	
Non-Hazard Flammable Skin Irritant	Poison		Unkno						n to Cli				Dispos						rchive		Months		
Special Instructions/QC Requirements & Comments: 1) DxR	x requires s	pecial limi	its 0.208 m	ng/L, cur	mulativ	e, Fi	inal \	/olur	ne of	2 mL	. requ	uired	2) N	o sil	ica ç	jet c	lear	up i	need	ed fo	ır Dx		
Custody Seals Mact: Yes No	Custody S	eal No.:							Coole	er Ter	пр. ([°]	°C): C	bs'd:			C	orr'c	i:			Therm ID No.:		
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Client: Farallon Consulting LLC

Job Number: 580-108687-1

Login Number: 108687 List Source: Eurofins FGS, Seattle

List Number: 1

Creator: Vallelunga, Diana L

Creator. Valleturiga, Diaria L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Northwest, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-108785-1

Client Project/Site: BNSF Skykomish Rush NPDES

Sampling Event: Skykomish - GAC/HCC

For:

Farallon Consulting LLC 975 5th Avenue NW Suite 100 Issaquah, Washington 98027

Attn: Amanda Meuginot

Authorized for release by: 1/4/2022 5:14:35 PM

Pauline Matlock, Project Manager (253)922-2310

pauline.matlock@eurofinset.com

LINKS

Review your project results through

Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Farallon Consulting LLC Project/Site: BNSF Skykomish Rush NPDES Laboratory Job ID: 580-108785-1

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Case Narrative

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Job ID: 580-108785-1

Laboratory: Eurofins Northwest, Seattle

Narrative

Job Narrative 580-108785-1

Comments

No additional comments.

Receipt

The samples were received on 12/29/2021 10:25 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.3° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 580-108785-1

2

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Definitions/Glossary

Client: Farallon Consulting LLC Job ID: 580-108785-1

Project/Site: BNSF Skykomish Rush NPDES

Glossary

MDA

MDC

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit MLMinimum Level (Dioxin) Most Probable Number MPN Method Quantitation Limit MQL

Minimum Detectable Activity (Radiochemistry)

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent NEG POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

1/4/2022

Client Sample Results

Client: Farallon Consulting LLC Job ID: 580-108785-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-122721 Lab Sample ID: 580-108785-1

Date Collected: 12/27/21 09:00 Matrix: Water

Date Received: 12/29/21 10:25

Method: NWTPH-Dx - No	rthwest - Semi-Volatile	Petroleum Prod	ucts (GC)				
Analyte	Result Qualific	er RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.43	0.10	mg/L		12/31/21 11:59	01/02/22 19:21	1
Motor Oil (>C24-C36)	0.36	0.33	mg/L	•	12/31/21 11:59	01/02/22 19:21	1
Surrogate	%Recovery Qualifi	er Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	71	50 - 150		-	12/31/21 11:59	01/02/22 19:21	1

0

9

Client Sample Results

Client: Farallon Consulting LLC

Job ID: 580-108785-1

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: HCC EFF-122721 Lab Sample ID: 580-108785-2

Date Collected: 12/27/21 09:00 Matrix: Water

Date Collected: 12/27/21 09:00 Matrix: Water Date Received: 12/29/21 10:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.055		mg/L		01/03/22 11:09	01/04/22 01:53	1
Motor Oil (>C24-C36)	ND		0.18		mg/L		01/03/22 11:09	01/04/22 01:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150				01/03/22 11:09	01/04/22 01:53	1

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Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-377195/1-A

Lab Sample ID: LCS 580-377195/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 377246

Analysis Batch: 377246

Client Sample ID: Method Blank

Prep Type: Total/NA **Prep Batch: 377195**

Job ID: 580-108785-1

MB MB Result Qualifier RL **MDL** Unit D Analyzed Dil Fac Analyte Prepared 0.11 #2 Diesel (C10-C24) ND mg/L 12/31/21 11:59 01/02/22 17:44 Motor Oil (>C24-C36) ND 0.35 mg/L 12/31/21 11:59 01/02/22 17:44

MB MB

%Recovery Qualifier Surrogate I imite Prepared Analyzed Dil Fac o-Terphenyl 72 50 - 150 12/31/21 11:59 01/02/22 17:44

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 377195

LCS LCS %Rec.

Spike Added Result Qualifier D %Rec Limits **Analyte** Unit 50 - 120 #2 Diesel (C10-C24) 4.00 3.06 mg/L 76 Motor Oil (>C24-C36) 4.00 3.34 83 64 - 120 mg/L

LCS LCS

%Recovery Qualifier Limits Surrogate o-Terphenyl 50 - 150 87

Lab Sample ID: LCSD 580-377195/3-A

Matrix: Water

Analysis Batch: 377246

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 377195

Spike LCSD LCSD %Rec. **RPD** Result Qualifier Limits **RPD Analyte** Added Unit D %Rec Limit #2 Diesel (C10-C24) 4.00 3.02 75 50 - 120 mg/L 26 Motor Oil (>C24-C36) 4.00 3.40 85 64 - 120 mg/L 2 24

LCSD LCSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 50 - 150

Lab Sample ID: MB 580-377287/1-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 377292

Prep Type: Total/NA

Prep Batch: 377287

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac #2 Diesel (C10-C24) ND 0.055 mg/L 01/03/22 11:09 01/03/22 19:51 Motor Oil (>C24-C36) ND 0.18 mg/L 01/03/22 11:09 01/03/22 19:51

MB MB

MB MB

Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed o-Terphenyl 86 50 - 150 01/03/22 11:09 01/03/22 19:51

Lab Sample ID: LCS 580-377287/2-A

Matrix: Water

Analysis Batch: 377292

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

%Rec.

Prep Batch: 377287

LCS LCS Spike Added Result Qualifier Unit %Rec Limits Analyte D #2 Diesel (C10-C24) 4.00 2.75 mg/L 69 50 - 120 Motor Oil (>C24-C36) 4.00 3.71 mg/L 93 64 - 120

Eurofins Northwest, Seattle

1/4/2022

Page 7 of 13

QC Sample Results

Client: Farallon Consulting LLC Job ID: 580-108785-1

Project/Site: BNSF Skykomish Rush NPDES

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 580-377287/2-A

Lab Sample ID: LCSD 580-377287/3-A

Matrix: Water

Matrix: Water

Analysis Batch: 377292

Analysis Batch: 377292

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 377287

LCS LCS

Limits Surrogate %Recovery Qualifier o-Terphenyl 70 50 - 150

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 377287

%Rec.

Spike LCSD LCSD **RPD** Added RPD Limits Limit Analyte Result Qualifier Unit D %Rec #2 Diesel (C10-C24) 2.89 5 26 4.00 mg/L 72 50 - 120 Motor Oil (>C24-C36) 4.00 3.82 mg/L 96 64 - 120 3 24

LCSD LCSD

Surrogate **%Recovery Qualifier** Limits o-Terphenyl 78 50 - 150

Eurofins Northwest, Seattle

Lab Chronicle

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

Client Sample ID: Before GAC-122721 Lab Sample ID: 580-108785-1

Date Collected: 12/27/21 09:00

Date Received: 12/29/21 10:25

Matrix: Water

Job ID: 580-108785-1

Batch Batch Dilution Batch Prepared **Prep Type** Method **Factor** Number or Analyzed Type Run Analyst Lab Total/NA Prep 3510C 377195 12/31/21 11:59 FGS SEA Total/NA NWTPH-Dx 377246 01/02/22 19:21 JAE FGS SEA Analysis 1

Client Sample ID: HCC EFF-122721 Lab Sample ID: 580-108785-2

Date Collected: 12/27/21 09:00 **Matrix: Water**

Date Received: 12/29/21 10:25

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			377287	01/03/22 11:09	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	377292	01/04/22 01:53	JAE	FGS SEA

Laboratory References:

FGS SEA = Eurofins Northwest, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Farallon Consulting LLC

Job ID: 580-108785-1 Project/Site: BNSF Skykomish Rush NPDES

Page 10 of 13

Laboratory: Eurofins Northwest, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

Eurofins Northwest, Seattle

Sample Summary

Client: Farallon Consulting LLC

Project/Site: BNSF Skykomish Rush NPDES

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 580-108785-1
 Before GAC-122721
 Water
 12/27/21 09:00
 12/29/21 10:25

 580-108785-2
 HCC EFF-122721
 Water
 12/27/21 09:00
 12/29/21 10:25

1

Job ID: 580-108785-1

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TestAmerica Seattle

Chain of Custody Record

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5755 8th Street East

Tacoma, WA 98424-1317 phone 253.922.2310 fax 253.922.5047	Regu	latory Pro	ogram:	∭DW [NPDE	s i	RC	RA	По	ther:											Test	Ł A me	rica L	abor	atorie	es, inc.
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Sample Identification	Sample Date	Sample Time	Type (C≈Comp, G=Grab)	Matrix	# of Cont.	Filtered	NWTPH-Dx															Sam	ole Spe	ecific i	Notes:	:
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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=	NaOH; 6= C	ther		NAMED SON		559 V	2	(8)(3)	9.00	1											SAVISAN	VENTO				\$25 KW
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please I Comments Section if the lab is to dispose of the sample.	ist any EPA	Waste Cod	des for the	sample i	n the	S	ampl	le Di	sposa	al (A	fee r	nay	be as	ses	sed i	fsar	nples	аге	retai	ined	longer	than	1 mon	ith)		
Non-Hazard Flammable Skin Irritant	Poison	В	Unkno)WR		7	R	Return	n to Clie	nt		[7]	Dispo	sal by	Lab		Γ	Arch	iive fç	r		Month	5			
Special Instructions/QC Requirements & Comments: 1) DxR	x requires s	pecial limi	ts 0.208 m	g/L, cum	nulative	e, Fir	nal Vo	olun	ne of 2	2 mL	tedn						leanu	p ne	edec	i for	Dx					
Custody Seals Intact: Yes No	Custody Se	al No.:							Coole	r Ten	ηρ. (^ο	C): C	bs'd:			C	orr'd:				Therm I	D No.	· ·			
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Client: Farallon Consulting LLC

Job Number: 580-108785-1

Login Number: 108785 List Source: Eurofins Northwest, Seattle

List Number: 1

Creator: Vallelunga, Diana L

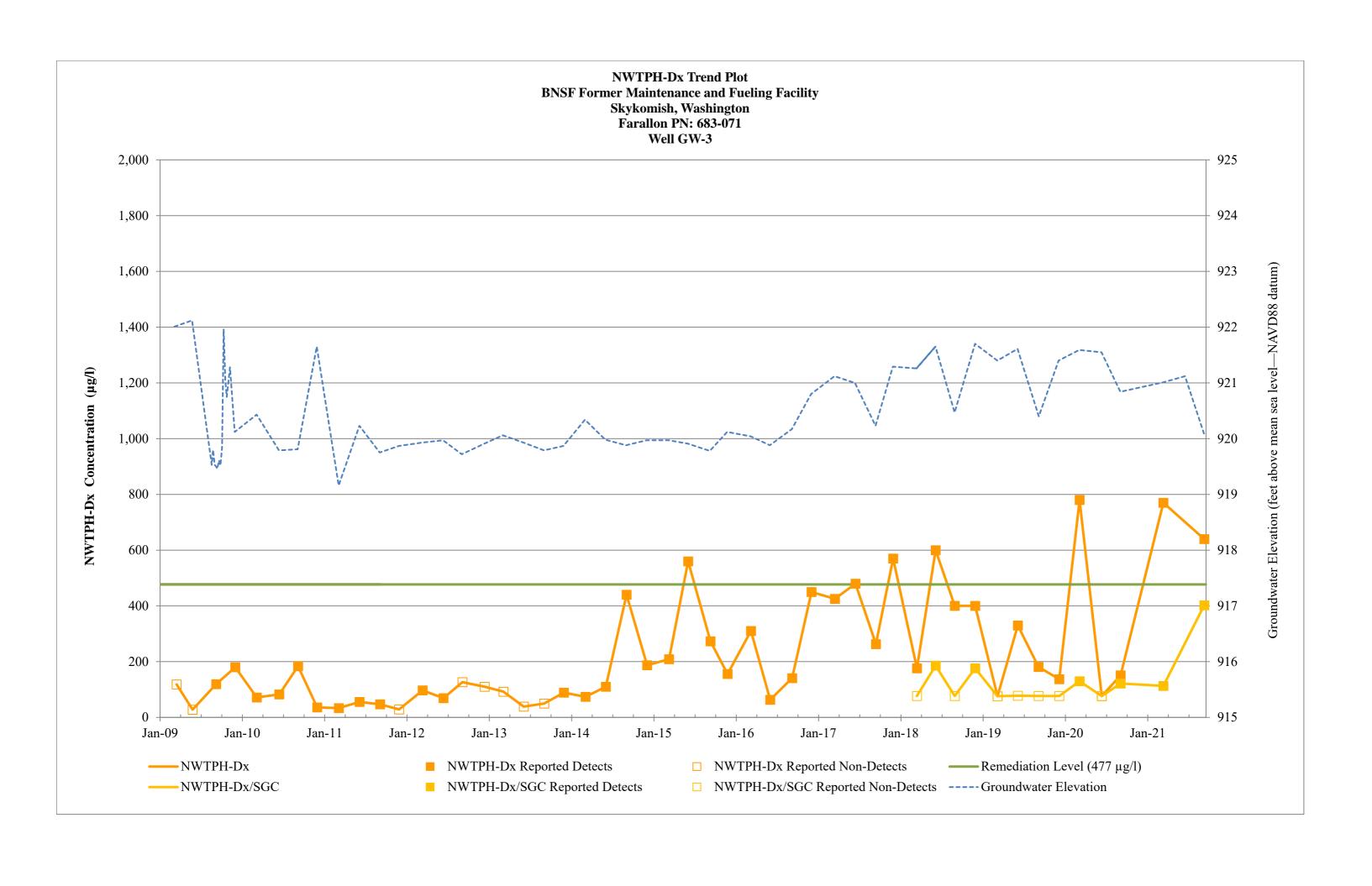
oroator: Vanoianga, Diana L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

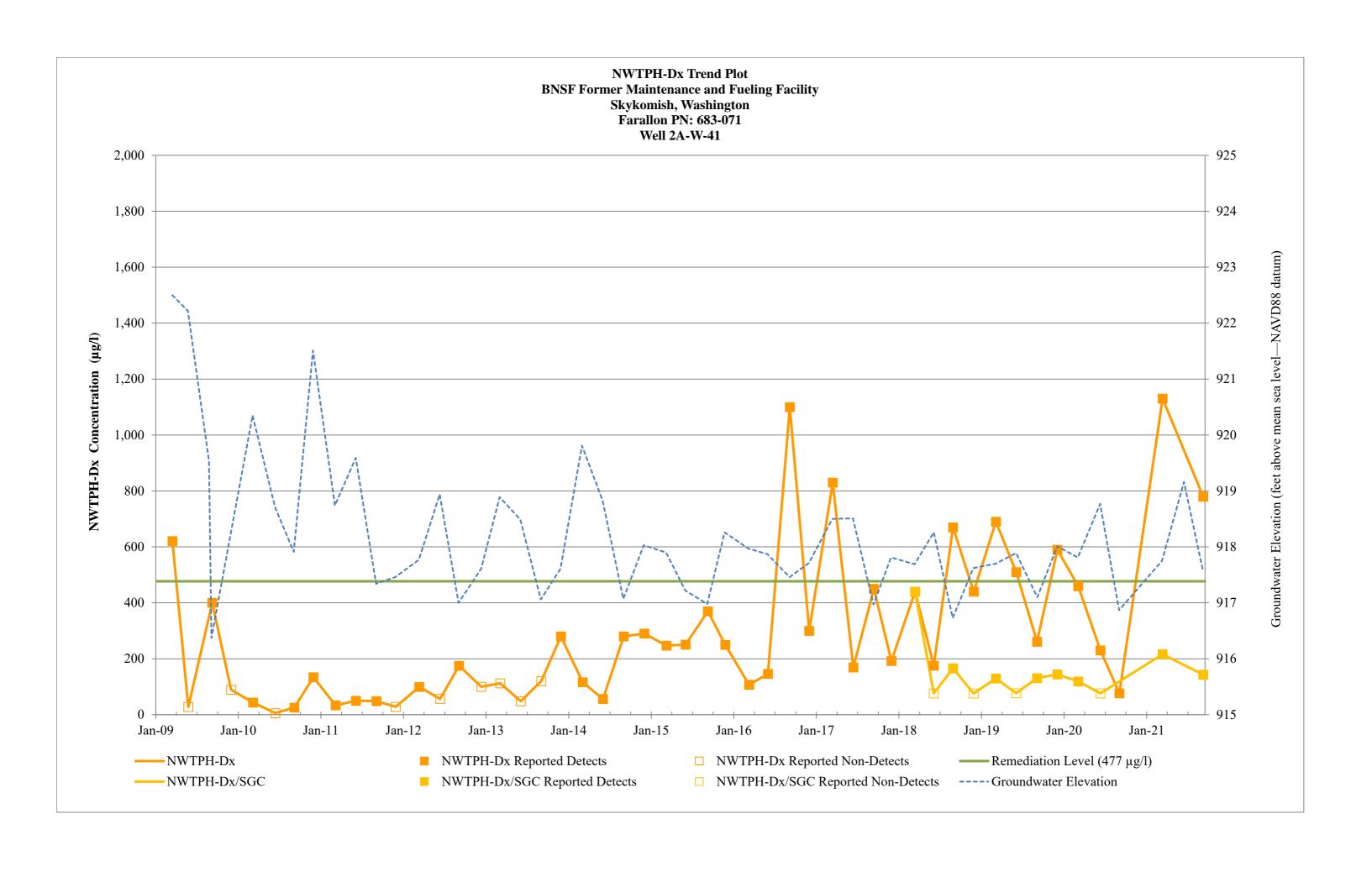
Eurofins Northwest, Seattle

APPENDIX B NWTPH-DX AND NWTPH-DX/SGC GW-3 TREND PLOT

2021 ANNUAL HYDRAULIC CONTROL AND CONTAINMENT SYSTEM
OPERATIONS REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-071

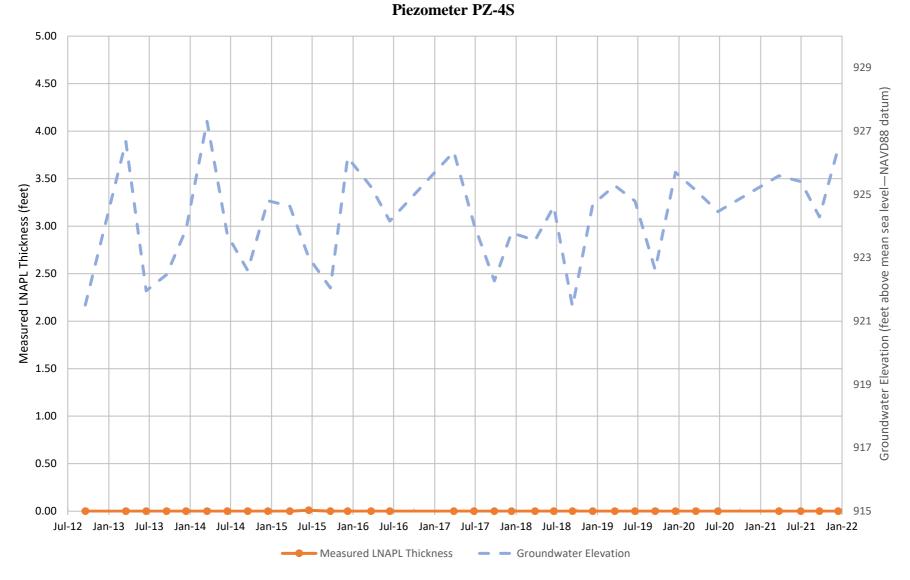




APPENDIX C LNAPL TREND PLOTS

2021 ANNUAL HYDRAULIC CONTROL AND CONTAINMENT SYSTEM
OPERATIONS REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-071



Farallon PN: 683-071 Piezometer PZ-5S

