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2015 SITE-WIDE GROUNDWATER MONITORING REPORT

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

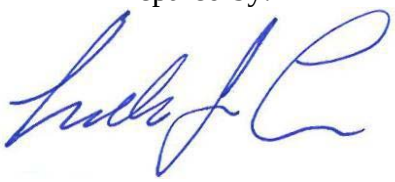
Submitted by:
Farallon Consulting, L.L.C.
975 5th Avenue Northwest
Issaquah, Washington 98027

Farallon PN: 683-043

For:
BNSF Railway Company
2454 Occidental Avenue South, Suite 1A
Seattle, Washington 98134

May 13, 2016

Prepared by:



Thaddeus Cline, P.E., L.G., L.H.G.
Principal Civil Engineer/Hydrogeologist

Reviewed by:

Amy Essig Desai
Principal Scientist

Gerald J. Portele
Principal

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1.0 INTRODUCTION

This 2015 Site-Wide Groundwater Monitoring Report was prepared on behalf of BNSF Railway Company (BNSF) and describes the 2015 groundwater monitoring activities performed at the BNSF Former Maintenance and Fueling Facility in Skykomish, Washington (herein referred to as the Site). Groundwater monitoring is being conducted as part of the Site remediation activities being completed in accordance with the *Cleanup Action Plan for BNSF Former Maintenance and Fueling Facility, Skykomish, Washington* dated October 2007, prepared by the Washington State Department of Ecology (Ecology) (2007a) (CAP). The groundwater monitoring activities completed at the Site in 2015 were conducted by BNSF pursuant to Consent Decree No. 07-2-33672-9 SEA between BNSF and Ecology (2007b) (Consent Decree) and are part of an integrated and comprehensive remedial action being performed at the Site. Groundwater monitoring activities were performed in accordance with the 2010 Groundwater Monitoring Plan, Appendix E of the 2010 Compliance Monitoring Plan Update (AECOM Environment [AECOM] 2010a) (2010 GWMP).

This document summarizes the groundwater monitoring conducted at the Site during 2015 (Reporting Period) and includes:

- Semiannual Site-wide monitoring events conducted in March and September 2015; and
- Quarterly monitoring events conducted in June and December 2015.

1.1 GROUNDWATER MONITORING OBJECTIVES

The objectives for the groundwater monitoring program as described in the 2010 GWMP are to:

- Monitor changes in contaminant distribution during and after implementation of cleanup actions throughout the Site;
- Provide monitoring data for groundwater in the Levee Zone to assess the effect of the cleanup actions on groundwater quality;
- Provide monitoring data to evaluate 2008 through 2015 remediation impacts on groundwater quality; and
- Provide fluid level gauging data to assess groundwater gradients and the extent of light nonaqueous-phase liquid (LNAPL) on the groundwater surface.

1.2 SITE DESCRIPTION

The Site includes BNSF property and public and private properties within the Town of Skykomish in King County, Washington, and encompasses an area of about 40 acres. The Site is approximately bounded by the South Fork Skykomish River to the north, the Town of Skykomish city limits to the east, Old Cascade Highway to the south, and Maloney Creek to the west. Railroad Avenue separates BNSF property from the main commercial district of the Town of Skykomish.

Additional Site history and background information was presented in the Consent Decree, CAP, and Supplemental Remedial Investigation Volume 1: Text, Tables, Figures, and Appendices A through D (The RETEC Group, Inc. 2002b).

1.3 REPORT ORGANIZATION

The remainder of this report is organized into the following sections:

- **Section 2—Groundwater Monitoring Network**. This section describes the monitoring well network, and summarizes changes made to the network during the Reporting Period.
- **Section 3—Sampling, Analysis, and Reporting**. This section describes the sampling methods, laboratory analysis and reporting procedures, and subsequent data management and validation protocols.
- **Section 4—Results and Discussion**. This section describes the results from the 2015 monitoring activities, including groundwater levels, field parameters, and NWTPH-Dx analytical results.
- **Section 5—Conclusions**. This section provides an overview of the groundwater monitoring activities conducted at the Site during the Reporting Period, and includes a summary of the data trends, and recommendations for future sampling events.
- **Section 6—Bibliography**. This section includes a listing of the documents cited in this report and other relevant documents providing additional background information.

2.0 GROUNDWATER MONITORING NETWORK

This section describes the wells, piezometers, and vaults in the groundwater monitoring network for fluid level gauging and groundwater sampling, and the modifications that were made during the Reporting Period. The wells, piezometers, and vaults sampled and the frequency of the sampling were defined in the 2010 GWMP. Groundwater monitoring locations are shown on Figure 1.

2.1 MODIFICATIONS TO THE MONITORING NETWORK

This section describes monitoring network changes that occurred during the Reporting Period, including well refurbishment, well damage, and well abandonment. Modifications to the groundwater monitoring network are summarized in Table 1. Modification plans and construction and/or abandonment details preceding the Reporting Period were presented in previous Site documents. During the Reporting Period, modifications were made to the four following monitoring wells:

- Monitoring wells 5-W-50 and 5-W-55 were damaged during construction of the Skykomish School hot water flushing system in August 2015. Monitoring well 5-W-55 subsequently was replaced and returned to service. Monitoring well 5-W-50 is scheduled for replacement during the summer of 2016.
- Monitoring wells 5-W-43 and MW-38R were damaged by heavy equipment traffic on Railroad Avenue and were repaired and returned to service.

2.2 SUMMARY OF GROUNDWATER MONITORING NETWORK

The current network of wells and piezometers used in the groundwater monitoring network at the Site is shown on Figure 1. The sentry wells present within the hydraulic control and containment (HCC) system gates that support system monitoring activities are not shown on Figure 1.

Table 2 summarizes the monitoring events conducted during the Reporting Period, with corresponding start and end dates. Tables 3 and 4 present additional details regarding the sampling and gauging frequencies of the wells and vaults used in the groundwater monitoring network.

The conditional points of compliance (CPOCs) for groundwater are generally described in Section 3.4 and on Figure 6 of the CAP. The monitoring network was partially established before the CAP was issued by Ecology in October 2007. However, all wells in the network are within the area bounded by the CPOC well locations, and the locations and designations of compliance wells were approved by Ecology based on the information presented in the 2010 Compliance Monitoring Plan Update (AECOM 2010a). Point of compliance wells will be defined in a Long-Term Confirmational Monitoring Plan to be developed at the conclusion of active remediation pursuant to Exhibit C of the Consent Decree.

3.0 SAMPLING, ANALYSIS, AND REPORTING

This section summarizes the groundwater monitoring program sampling methods, laboratory analysis and reporting procedures, and data management and validation protocols. Groundwater samples collected during the Reporting Period were analyzed by TestAmerica Laboratories, Inc. in Tacoma, Washington.

3.1 SAMPLING METHODS

The sampling methodology used to gauge fluid levels and collect groundwater samples was described in the 2010 GWMP. The procedures were established for gauging and sampling monitoring wells, although these procedures apply also to the piezometer and vault locations.

3.2 LABORATORY ANALYSIS AND REPORTING PROCEDURES

The groundwater samples were analyzed for total petroleum hydrocarbons as diesel-range organics (DRO) and as oil-range organics (ORO) (herein referred to cumulatively as NWTPH-Dx) by Northwest Method NWTPH-Dx. The analytical laboratory reported detected sample concentrations relative to the method detection limit (MDL) rather than the method reporting limit (MRL), which usually is higher. Because analyte concentrations detected exceeding the MDL and less than the MRL have a degree of uncertainty, these results were considered to be estimated values, and were qualified with a J-flag, indicating that the reported value is an estimate. Using the MDL to report results was intended to minimize the occurrence of non-detected results with an MRL greater than the cleanup level.

3.3 DATA MANAGEMENT AND VALIDATION PROTOCOLS

The analytical laboratory provided both text data reports (Appendix A), and electronic data deliverables that were directly imported into the project environmental data management system. A quality control check was performed on the imported data to ensure that they were accurately uploaded and that transfer errors did not occur.

Each laboratory analytical report included copies of the Chain of Custody forms and a case narrative containing the following information: a description of the case, comments on sample condition upon receipt, and a description of sample preparation and analysis. The following data were included in the data report: MDL, MRL, units of measure, dilution factor, batch number, date received, date prepared, date analyzed, analytical method, and pertinent notes or qualifiers. The report also contained the details and results of laboratory quality assurance/quality control procedures that were performed on the samples. Analytical data were checked for completeness by a Farallon Project Scientist, and then independently validated by Sayler Data Solutions, Inc. of Bothell, Washington.

Sayler Data Solutions, Inc. evaluated the groundwater data to assess whether the analytical results met the quality control/validation standards described in the 2010 GWMP. These metrics included

precision, accuracy, method compliance, and completeness of the data set. Validation results were used to evaluate whether the data were suitable for their intended use.

Data validation reports describing procedures, criteria, and findings are provided in Appendix B. Procedures used in the data validation are based on U.S. Environmental Protection Agency (2008) guidelines for organic methods data review. Based on the findings of the data quality assurance and validation procedures implemented, the data developed as part of the 2015 groundwater monitoring program are suitable for the intended use of assessing groundwater quality at the Site.

4.0 RESULTS AND DISCUSSION

This section presents a summary and evaluation of the results from the groundwater monitoring conducted during the Reporting Period. Included are groundwater levels, field parameters, and NWTPH-DX results.

4.1 GROUNDWATER LEVELS

Table 4 summarizes the frequency of groundwater level elevation gauging at Site locations. With the exception of monitoring wells associated with the HCC system, locations are gauged on a quarterly schedule, with additional locations gauged during the semiannual monitoring events in March and September. Table 5 presents the groundwater elevation and LNAPL thickness measurements obtained during the Reporting Period. Groundwater flow direction, variations in groundwater elevations and LNAPL thickness, and changes in groundwater gradients in relation to seasonal variations and remediation activities are discussed below.

Quarterly and semiannual groundwater elevation contour maps for the Reporting Period are shown on Figures 2 through 5. As shown on these figures, the groundwater flow direction is generally consistent given seasonal variation and periodic adjustments to pumping rates along the HCC system barrier wall. Groundwater elevations did fluctuate seasonally by approximately 2.1 feet (ranging from 1.47 to 2.71 feet) in piezometers adjacent to and south of the HCC system barrier wall, and by approximately 0.53 feet (ranging from 0.12 to 0.93 feet) adjacent to and north of the HCC system barrier wall, with some influence imparted by HCC system pumping rates. The groundwater elevation data for the March 2015 semiannual monitoring event were obtained while no pumping was occurring due to the HCC system pilot testing being conducted at the time. The difference in groundwater elevations from north to south across the central portion of the HCC system barrier wall varied between approximately 4.4 feet in March 2015 and approximately 2.9 feet in September 2015 as measured in piezometers. Flow in this area is influenced by seasonal variations and HCC pumping system rates. South of the HCC system barrier wall, groundwater flow is predominantly toward the northwest or west. North of the HCC system barrier wall, groundwater typically flows to the west/northwest in the direction of the Skykomish River. The HCC system barrier wall acts as a barrier to groundwater flow and accentuates a westerly component to groundwater flow in the area of the HCC system barrier wall. Localized groundwater depressions are present near the HCC system barrier wall gates due to the variance in groundwater elevations between the up- and down-gradient sides of the HCC barrier wall and the pumping of recovery wells on the up-gradient side of the HCC system barrier wall.

Groundwater surface elevation maps continue to show that groundwater elevations are lower in the Levee Zone due in part to the presence of impermeable liner/barrier systems along the up-gradient boundaries (south and east) of the prior Levee Zone excavations in 2006 and subsequently in 2010 and 2013. The extent of the original liner/barrier system is described in the *Levee Zone Interim Action for Cleanup – 2007 As-Built Completion Report, Former Maintenance and Fueling Facility – Skykomish, Washington* dated August 2007, prepared by ENSR (2007).

Excavation at the Skykomish School in June, July, and August 2013 occurred in the area of the underground liner, which was replaced along the eastern and southern extents of the 2013 excavation. The Skykomish School excavation work is described in the 2013 As-Built Completion Report prepared by Farallon (2014b). Construction activities that occurred in the area of the Skykomish School during the Reporting Period are described in the 2015 As-Built Completion Report being prepared by Farallon (2016b in preparation). Construction activities during 2015 included installation of a sheet-pile barrier wall encompassing the Skykomish School to support implementation of a hot water flushing technology to remediate the presence of petroleum hydrocarbon constituents beneath the structure.

4.2 FIELD PARAMETERS

Table 6 presents the stabilized field parameter measurements collected during the quarterly and semiannual groundwater sampling events from each of the wells that did not contain LNAPL. Each field parameter is discussed below.

4.2.1 pH

The average pH of groundwater across the Site during the Reporting Period was 6.1 standard pH units. The minimum pH was 4.19 at gate well GW-4 during the December 2015 event; the maximum pH was 7.85 at monitoring well 5-W-15 during the June 2015 event. The average, minimum, and maximum pH measurements were consistent with past measurements at the Site.

4.2.2 Temperature

The average temperature of groundwater during the Reporting Period was 10.3 degrees Celsius (°C). The minimum temperature was 4.34°C at monitoring well 2A-W-10 during the December 2015 event; the maximum temperature was 18.9°C at monitoring well 2A-W-41 during the September 2015 event. The groundwater temperatures recorded varied seasonally, consistent with prior monitoring events at the Site.

4.2.3 Dissolved Oxygen

The average dissolved oxygen (DO) concentration in groundwater across the Site during the Reporting Period was 4.22 milligrams per liter (mg/l). DO levels ranged from a minimum of 0.016 mg/l at monitoring well MW-3 during the September 2015 event to a maximum of 11.3 mg/l at monitoring well IB-W-23 during the March 2015 event. In general, monitoring wells with no detected petroleum hydrocarbon compounds exhibited higher concentrations of DO (above approximately 3.8 mg/l) than monitoring wells with detected petroleum hydrocarbon compounds, indicating that some biodegradation is occurring. These measurements are generally consistent with historical values.

4.2.4 Oxidation-Reduction Potential

The average oxidation-reduction potential (ORP) in groundwater across the Site during the Reporting Period was 127.6 millivolts (mV). The minimum ORP value was -52 mV at monitoring

well 5-W-56 during the September 2015 event; the maximum ORP value was 327 mV at monitoring well GW-4 during the December 2015 event. ORP in groundwater at the Site is most-commonly positive. A positive ORP and a DO concentration in excess of approximately 1 mg/l indicate that conditions are conducive to aerobic degradation of petroleum hydrocarbons. These measurements were consistent with historical values.

4.2.5 Turbidity

The mean turbidity value in groundwater across the Site during the Reporting Period was 8.18 nephelometric turbidity units (NTU). Turbidity values ranged from 0 NTU in 60 of the 2015 readings, to a maximum of 175 NTU at monitoring well 5-W-56 during the September 2015 event. Approximately 92 percent of the turbidity measurements during the Reporting Period were below 25 NTU. Approximately 94 percent of the turbidity measurements reported in the 2014 Groundwater Monitoring Report were below 25 NTU (Farallon 2015a).

4.3 GROUNDWATER ANALYTICAL RESULTS

The groundwater cleanup level (CUL) for petroleum hydrocarbon concentrations measured using Northwest Method NWTPH-Dx is 208 micrograms per liter (µg/l); the remediation level (RL) is 477 µg/l as specified in Section 3.4 and Table 1 of the CAP. The CAP anticipates that the CUL will be attained at the CPOC following implementation of all cleanup actions specified in the CAP. The approximate CPOC boundary is shown on Figure 6 of the CAP. As described in the CAP, the CUL for petroleum hydrocarbons in groundwater is intended to protect sediments from recontamination by groundwater (e.g., near the South Fork Skykomish River and Former Maloney Creek); the RL for petroleum hydrocarbons in groundwater is intended to be protective of drinking water resources.

Petroleum hydrocarbon concentrations in groundwater were analyzed using Northwest Method NWTPH-Dx with no silica gel cleanup. DRO and ORO hydrocarbon fractions were added together to calculate a total NWTPH-Dx petroleum hydrocarbon concentration. If both DRO and ORO fractions were detected, NWTPH-Dx was calculated to be the sum of both detected concentrations. If either the DRO or the ORO fractions were not detected at or exceeding the MDL, half of the MDL value was used to represent the non-detected component in the NWTPH-Dx summation, which was then denoted as detected. If neither component was detected at or exceeding the MDL, half of the MDL value of both components was added to represent the NWTPH-Dx reporting value, which was then denoted as not detected. Table 7 shows DRO and ORO results and the calculated NWTPH-Dx concentrations. Figures 6 through 9 show the groundwater NWTPH-Dx concentrations on Site plan maps for the two quarterly and the two semiannual monitoring events conducted during the Reporting Period, and the estimated extent of LNAPL present at the Site.

Site-wide groundwater sampling was conducted on a semiannual schedule (March and September) during the Reporting Period. Select wells down-gradient of the HCC system, adjacent to the Former Maloney Creek Zone-East Wetland, the Levee Zone, and the HCC system gate and end wells, were sampled on a quarterly schedule (June and December) in addition to the semiannual

monitoring in March and September. Monitoring wells associated with the former air sparging system were monitored and sampled.

Results from the semiannual Site-wide events (March and September 2015) are discussed in the following sections. Results from 2015 quarterly monitoring events follow. Trend plots showing historical NWTPH-Dx groundwater monitoring results for the monitoring wells included in the current monitoring well network are provided in Appendix C.

4.3.1 Results from Semiannual Site-Wide Groundwater Monitoring Events

A total of 56 monitoring locations were used for groundwater sampling during the March and September 2015 semiannual groundwater monitoring events (Table 3). In general, groundwater samples were not collected from monitoring wells containing LNAPL or traces of LNAPL.

Monitoring well 5-W-51 was planned for inclusion in the semiannual groundwater sampling but was not sampled during the Reporting Period because it contained traces of LNAPL during both semiannual monitoring events. LNAPL historically has been measured in monitoring well 5-W-51. During the 2013 and 2014 reporting periods, LNAPL accumulations were measured in monitoring well 5-W-51 at thicknesses of 0.80 and 0.02 foot for the March and September 2013 monitoring events, respectively, and traces were measured for both the March and September 2014 monitoring events. Although monitoring well 2A-W-9 was noted to contain a heavy trace of LNAPL during the June monitoring event, this well was still sampled, with the resulting data presented in Table 7.

The discussion below pertains to Site-wide data collected during the March and September 2015 semiannual groundwater monitoring events at the sampled locations, with the exception of the air sparging system monitoring wells and the HCC system monitoring wells, which are discussed in Sections 4.3.4 and 4.3.5, respectively. NWTPH-Dx results from the March and September 2015 semiannual monitoring events are shown on Figures 6 and 8; analytical results are summarized in Table 7.

4.3.1.1 March 2015

The March 2015 semiannual groundwater monitoring event was conducted from March 24 through 26, 2015. Groundwater samples were collected from 27 monitoring wells at the Site (not including wells in the air sparging area or HCC system wells). NWTPH-Dx was detected in 24 of the 27 groundwater samples collected at concentrations ranging from 30 to 1,300 µg/l, four of which exceeded the RL of 477 µg/l.

NWTPH-Dx RL exceedances occurred in groundwater samples collected from monitoring wells 5-W-50, 5-W-56, 2A-W-9, and 2A-W-10. The RL exceedances in groundwater samples collected from monitoring wells 5-W-50 and 5-W-56 at the Skykomish School occurred at locations proximate to a residual LNAPL plume at the Skykomish School. NWTPH-Dx was detected at a concentration of 1,300 µg/l in the groundwater sample collected from monitoring well 5-W-50. NWTPH-Dx was detected in groundwater

samples collected from monitoring well 5-W-50 at a concentration of 1,150 µg/l during the March 2014 event, and at concentrations ranging between 1,960 and 2,260 µg/l during the 2013 reporting period. LNAPL accumulations have not been observed in monitoring well 5-W-50.

NWTPH-Dx was detected at a concentration of 750 µg/l in the groundwater sample collected from monitoring well 5-W-56. NWTPH-Dx was detected at a concentration of 3,500 µg/l during the March 2014 event. NWTPH-Dx was not detected at concentrations at or exceeding the MDLs during the March 2013 event, but was detected at a concentration of 2,620 µg/l in the groundwater sample collected from monitoring well 5-W-56 during September 2013. LNAPL accumulations have not been observed in monitoring well 5-W-56, although LNAPL was observed in monitoring well 5-W-51, located approximately 80 feet south of monitoring wells 5-W-15 and 5-W-50, during the Reporting Period and prior reporting periods.

NWTPH-Dx RL exceedances occurred in groundwater samples collected from monitoring wells 2A-W-9 and 2A-W-10 in the railyard near a former LNAPL area. NWTPH-Dx was detected at a concentration of 1,150 µg/l in the groundwater sample collected from monitoring well 2A-W-9. NWTPH-Dx was detected at concentrations of 960 and 1,370 µg/l during the March 2014 and March 2013 events, respectively; and at concentrations ranging between 260 and 1,370 µg/l in groundwater samples collected from monitoring well 2A-W-9 during the 2013 reporting period.

NWTPH-Dx was detected at a concentration of 520 µg/l in the groundwater sample collected from monitoring well 2A-W-10. NWTPH-Dx was detected at concentrations of 850 and 980 µg/l during the March 2014 and March 2013 events, respectively, with concentrations ranging from not detected at or exceeding the MDLs to 980 µg/l in groundwater samples collected from monitoring well 2A-W-10 during the 2013 reporting period.

As discussed in Section 4.3.4, Levee Zone Monitoring Results, groundwater samples were collected from Levee Zone monitoring wells 5-W-14 through 5-W-19 during the March 2015 groundwater monitoring event. NWTPH-Dx was not detected at concentrations exceeding the RL in the Levee Zone monitoring wells during the March 2015 monitoring event. NWTPH-Dx was not detected at concentrations at or exceeding the MDLs in monitoring wells 5-W-14 or 5-W-17 during the March 2015 groundwater monitoring event.

4.3.1.2 September 2015

The September 2015 semiannual groundwater monitoring event was conducted from September 22 through 24, 2015. Groundwater samples were collected from 26 monitoring wells at the Site (not including the air sparge area or HCC system wells). NWTPH-Dx was detected in all 26 of the groundwater samples collected, as discussed below.

In September 2015, NWTPH-Dx detections and RL exceedances occurred in groundwater samples collected from monitoring wells 5-W-54 and 5-W-56 in the vicinity of the Skykomish School, and in the groundwater sample collected from monitoring well 2A-W-9 in the railyard. NWTPH-Dx was detected at concentrations of 790 and 4,400 µg/l in the groundwater samples collected from monitoring wells 5-W-54 and 5-W-56, respectively. NWTPH-Dx was detected in a groundwater sample collected from monitoring well 5-W-56 at concentrations of 2,210 and 2,620 µg/l during the September 2014 and 2013 monitoring events, respectively. Monitoring wells 5-W-54 and 5-W-56 are proximate to a residual LNAPL plume. During the September 2015 monitoring event, LNAPL was observed in monitoring well 5-W-51.

NWTPH-Dx was detected at a concentration of 930 µg/l in the groundwater sample collected from monitoring well 2A-W-9, located in the railyard near a former LNAPL area, exceeding the RL of 477 µg/l. A groundwater sample was not collected from monitoring well 2A-W-9 during the September 2014 monitoring event; NWTPH-Dx was detected at a concentration of 260 µg/l during the September 2013 event. There were no other exceedances of the RL during the September 2015 monitoring event.

As discussed in Section 4.3.4, Levee Zone Monitoring Results, groundwater samples were collected from Levee Zone monitoring wells 5-W-14 through 5-W-19 during the September 2015 groundwater monitoring event. NWTPH-Dx was not detected at concentrations exceeding the RL in the Levee Zone monitoring wells.

4.3.2 Air Sparge Area Monitoring

With Ecology concurrence, operation of the air sparging system was discontinued in May 2013, with air sparge area groundwater monitoring continuing on a monthly schedule. Groundwater samples were collected from air sparge area monitoring wells 1B-W-3, 1C-W-7, and 1C-W-8 on a monthly basis through June 2014. Based on the results from the groundwater monitoring conducted through June 2014, the three air sparge area monitoring wells were transitioned to a quarterly monitoring schedule beginning with the semiannual groundwater monitoring event in September 2014.

NWTPH-Dx results from the 2015 quarterly monitoring events in the air sparge area are shown on Figures 6 through 9 and in Table 7. A total of 12 groundwater samples were collected from the air sparge area monitoring wells during the Reporting Period. NWTPH-Dx was detected in each of the 12 groundwater samples. NWTPH-Dx concentrations detected in the groundwater samples collected down-gradient of the air sparge area (monitoring wells 1C-W-8 and 1B-W-3) ranged from 46.5 to 280 µg/l. The NWTPH-Dx concentrations detected in groundwater samples collected from the air sparge area monitoring wells did not exceed the RL. Groundwater NWTPH-Dx concentrations have not exceeded the RL at monitoring well 1C-W-8 since November 2013. NWTPH-Dx concentrations have been consistently less than the CUL at monitoring well 1B-W-3 since September 2008.

4.3.3 Hydraulic Control and Containment System Monitoring

The following sections summarize the groundwater analytical results for wells that monitor the HCC system and adjacent areas. Quarterly monitoring was completed during the Reporting Period for the monitoring wells in the HCC system and barrier wall backfill and down-gradient of the HCC system barrier wall, and for the HCC system end and gate monitoring wells. Concentrations of NWTPH-Dx detected in groundwater samples collected from HCC system monitoring wells did not exceed the RL during the Reporting Period, with the exception of a concentration of 560 µg/l detected in the groundwater sample collected from gate well GW-3 during the June 2015 monitoring event. NWTPH-Dx results for groundwater samples collected during the Reporting Period are shown on Figures 6 through 9 and in Table 7. The results from the HCC system well monitoring events are described and evaluated further in the 2015 Annual Hydraulic Control and Containment System Operations Report being prepared by Farallon (2016a in preparation).

4.3.3.1 Backfill and Down-Gradient of the HCC

Groundwater samples were collected quarterly from groundwater monitoring wells within the backfill placed during the HCC system barrier wall construction and down-gradient of the HCC system barrier wall at monitoring wells 1B-W-23, 1C-W-7, 2A-W-40, 2A-W-41, 2A-W-42, and 5-W-43. A total of 24 groundwater samples were collected from the six backfill and down-gradient monitoring wells during the Reporting Period. NWTPH-Dx was detected in 23 of the 24 groundwater samples at concentrations ranging from 25.5 to 370 µg/l, all less than the RL.

4.3.3.2 HCC System Performance Monitoring Results

Groundwater samples were collected quarterly during the Reporting Period from monitoring wells EW-1 and EW-2A, located at the western and eastern ends of the HCC system barrier wall, respectively. NWTPH-Dx was detected in both of the groundwater samples collected from monitoring well EW-1 at concentrations ranging from 59.5 to 106 µg/l, and in both of the groundwater samples collected from monitoring well EW-2A at concentrations ranging from 26.65 to 87 µg/l. The NWTPH-Dx concentrations detected in the groundwater samples collected from these locations were consistently less than the CUL.

Groundwater samples were collected quarterly during the Reporting Period from gate wells GW-1 through GW-4. A total of 16 groundwater samples were collected from these four locations. NWTPH-Dx was detected in all 16 samples at concentrations ranging from 57 to 560 µg/l; the only concentration that exceeded the RL was detected at gate well GW-3 during the June 2015 monitoring event. NWTPH-Dx was not previously detected at a concentration exceeding the RL in groundwater samples collected from gate monitoring well GW-3; concentrations detected in groundwater samples collected in March, September, and December 2015 were 209, 273, and 156 µg/l, respectively.

Groundwater samples were collected from the gate sentry wells during the semiannual monitoring events in March and September 2015. The sentry wells are intended to enable

monitoring of petroleum hydrocarbon concentrations in the reactive material in each gate to evaluate treatment capacity and exhaustion rates. Petroleum hydrocarbon constituents in groundwater at these locations are removed by the reactive media. Of the 60 total samples collected from the sentry wells, 59 were less than the CUL; NWTPH-DX was detected at a concentration of 220 µg/l in the remaining sample. These results are not representative of Site groundwater conditions, and are not further evaluated in this report. The groundwater results from the gate sentry wells for the semiannual events are presented in Table 7 for reference.

HCC system operations were interrupted occasionally for short periods to perform maintenance, change out granular activated carbon in the HCC system water treatment plant, optimize system parameters, make repairs, or perform pilot testing, or due to power outages. Because of a power outage in late November 2015, the sentry wells were sampled during the December 2015 monitoring event. The 2015 Annual Hydraulic Control and Containment System Operations Report being prepared by Farallon (2016a in preparation) provides details regarding other temporary HCC system shut-downs during the Reporting Period.

4.3.4 Levee Zone Monitoring Results

Results from the groundwater sampling of Levee Zone monitoring wells 5-W-14 to 5-W-19 during the semiannual groundwater monitoring events in March and September 2015 are summarized in Sections 4.3.1.1 and 4.3.1.2, respectively. This section presents results for all four quarters, including the March and September 2015 semiannual groundwater monitoring events.

Groundwater samples were collected quarterly during the Reporting Period from Levee Zone monitoring wells 5-W-14 through 5-W-19. NWTPH-Dx results from these quarterly events are shown on Figures 6 through 9, and are summarized in Table 7. A total of 24 groundwater samples were collected from Levee Zone monitoring wells during the Reporting Period. NWTPH-Dx was detected in 19 of the 24 groundwater samples at concentrations ranging from 19.65 to 1,830 µg/l. NWTPH-Dx was detected at concentrations exceeding the CUL in groundwater samples collected from two of the six Levee Zone monitoring wells. Concentrations of 380 and 230 µg/l NWTPH-DX were detected in monitoring well 5-W-15 during the March and June 2015 monitoring events, respectively, and a concentration of 1,830 µg/l NWTPH-DX was detected in monitoring well 5-W-18 during the June 2015 monitoring event. NWTPH-Dx was detected at a concentration exceeding the RL in only the groundwater sample collected from monitoring well 5-W-18 during the June 2015 monitoring event.

Monitoring well 5-W-15 is located within the 2006 interim cleanup action area, and both monitoring wells 5-W-15 and 5-W-18 are in the vicinity of monitoring wells 5-MW-50 and 5-MW-56, located proximate to the Skykomish School, where accumulations of LNAPL have been measured. NWTPH-Dx has not been detected at concentrations exceeding either the CUL or the RL in Levee Zone monitoring wells 5-W-14, 5-W-16, 5-W-17, or 5-W-19.

4.3.5 Former Maloney Creek Zone – East Wetland and Surrounding Area Monitoring Results

Groundwater samples were collected quarterly from monitoring wells 2A-W-9, 2A-W-10, 2B-W-4, MW-3, and MW-4 adjacent to the Former Maloney Creek Zone East Wetland area during the Reporting Period. NWTPH-Dx results from these events are presented in Table 7 and are shown on Figures 6 through 9.

A total of 20 groundwater samples were collected throughout the Reporting Period from the five Former Maloney Creek Zone groundwater monitoring locations. NWTPH-Dx was detected in all 20 of the samples at concentrations ranging from 21.65 to 1,150 µg/l. Concentrations of NWTPH-DX exceeded the RL in the four samples collected from monitoring well 2A-W-9, and in the sample collected from monitoring well 2A-W-10 in March 2015. Concentrations of NWTPH-DX were not detected at concentrations exceeding the RL in the groundwater samples collected from the remaining three monitoring wells in the Former Maloney Creek Zone East Wetland area during the Reporting Period; there has not been an exceedance detected at any of these three locations since October 2010.

5.0 CONCLUSIONS

This report presents the results from groundwater monitoring performed at the Site during the 2015 Reporting Period. The groundwater elevation and analytical data collected throughout the Reporting Period were compared to previous monitoring data, and the RL and the CUL established for the Site. Groundwater elevation data indicate that groundwater flow gradients are relatively consistent throughout the year and similar to those observed during monitoring events conducted following completion of the cleanup action excavations in the commercial and residential areas of the Town of Skykomish, and installation of the HCC barrier wall.

Site-wide analytical data collected during the Reporting Period indicate that the overall extent of the LNAPL and dissolved-NWTPH-Dx plumes have remained stable. The estimated extent of LNAPL at the Site for the four quarterly monitoring events in the Reporting Period is shown on Figures 6 through 9. LNAPL thicknesses measured for the March, June, and September 2015 monitoring events are shown on Figures 6 through 8. During those monitoring events, thicknesses of LNAPL of up to 1.55 feet were measured along sections of the southern side of the HCC system barrier wall between the West and Center Gates. Reliable LNAPL measurements could not be obtained during the December 2015 monitoring event due to persistent heavy precipitation prior to and during the monitoring event, the occurrence of groundwater temperatures as low as 4.34ºC in the railyard and resultant increases in LNAPL viscosity, and persistent difficulties with fouling of the oil-water interface probe. The presence of LNAPL accumulations greater than trace levels were noted at two recovery wells and two piezometers in the area between the West and Center Gates. Thin accumulations and traces of LNAPL were measured in one monitoring well located proximate to the eastern side of the Skykomish School. A light trace of LNAPL was noted in monitoring well MW-11, located approximately 150 feet south of the East Gate, during two of the four quarterly monitoring events. A heavy trace of LNAPL was noted in monitoring well 2A-W-9, located south of the railyard, during the June 2015 monitoring event. LNAPL mobility is monitored as part of HCC system operations (Farallon 2016a in preparation).

Concentrations of NWTPH-Dx detected in groundwater samples collected at monitoring wells down-gradient of and immediately adjacent to areas currently or formerly containing LNAPL exceeded the CUL of 208 µg/l and/or the RL of 477 µg/l during the Reporting Period. NWTPH-Dx was detected in all 36 wells sampled during the Reporting Period (exclusive of the sentry wells). Of these detections, concentrations of NWTPH-DX detected in samples collected from two of the monitoring wells in the Levee Zone exceeded the CUL, and concentrations of NWTPH-DX detected in samples collected from six Site monitoring wells exceeded the RL, as compared to five monitoring wells during the 2014 reporting period. Two of these locations were in the former Maloney Creek Zone south of the railyard. One of these locations was the gate well at the Center Gate, although this gate has been shown to be largely obstructed due to biofouling (Farallon 2016a in preparation). The data do not indicate significant migration of LNAPL, or changes in NWTPH-Dx concentrations during the Reporting Period. The data indicate that the HCC system is effectively preventing LNAPL and NWTPH-Dx from passing through the HCC system barrier gates.

Site-wide groundwater monitoring has been conducted quarterly at the Site since 2006. Cleanup of the entire Site has almost been completed, with the exception of the area beneath the Skykomish School building. Treatment beneath the Skykomish School building using hot water flushing will commence in 2016. Upon completion of all cleanup actions specified in the CAP, groundwater monitoring will be conducted in accordance with the Long-Term Confirmational Monitoring Plan that will be prepared and submitted to Ecology in accordance with Exhibit C of the Consent Decree.

6.0 BIBLIOGRAPHY

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———. 2015a. 2014 Site-Wide Groundwater Monitoring Report, BNSF Former Maintenance and Fueling Facility, Skykomish, Washington. Prepared for BNSF Railway Company. April.

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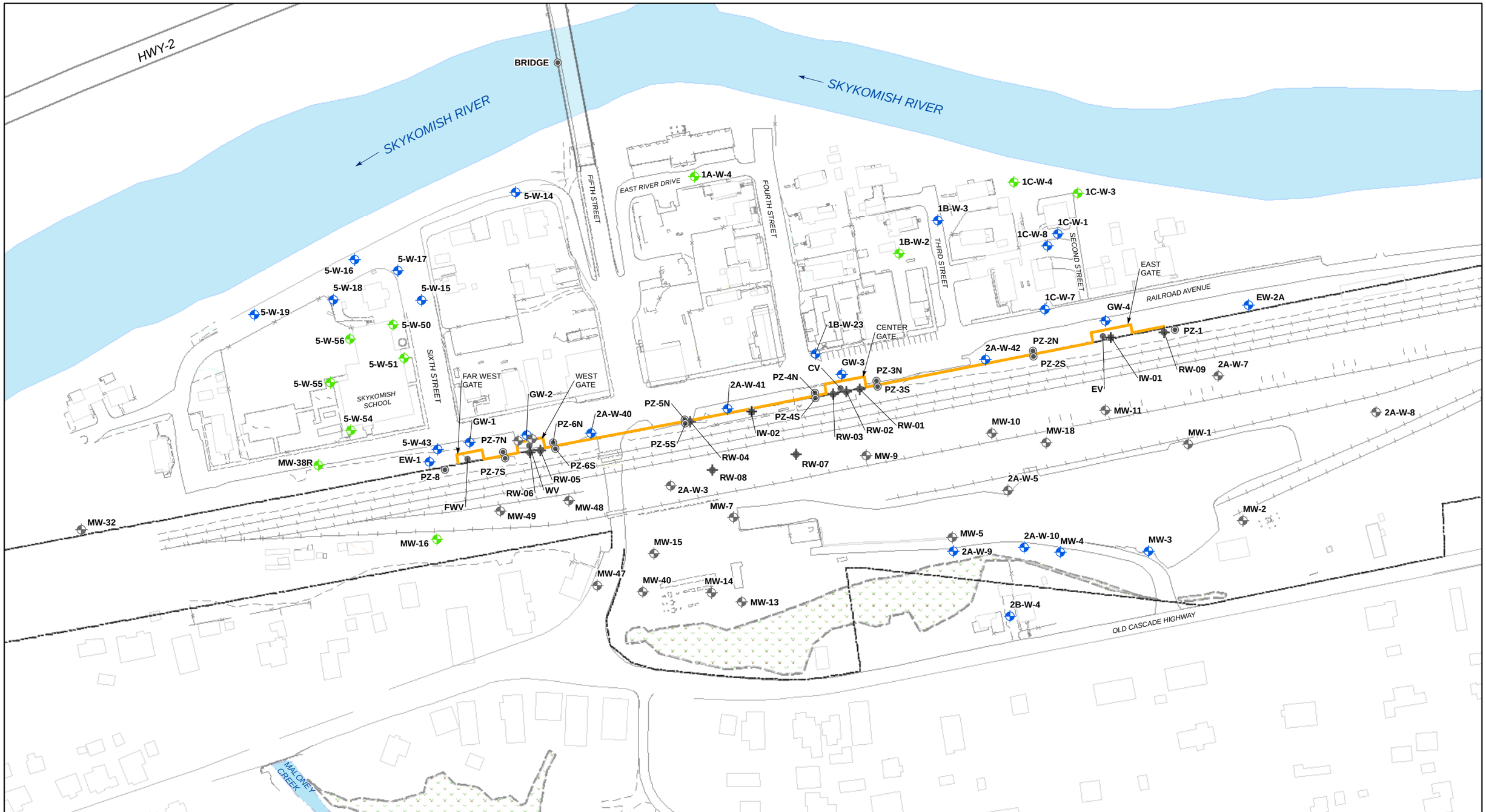
FIGURES

2015 SITE-WIDE
GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043



LEGEND

- 2A-W-41 MONITORING WELL
- RW-04 RECOVERY WELL
- PZ-5S PIEZOMETER
- IW-02 INJECTION WELL
- FMW VAULT WELL
- WELLS SAMPLED QUARTERLY
- WELLS SAMPLED SEMIANNUALLY (ALSO INCLUDES WELLS SAMPLED QUARTERLY)
- GAUGE WELLS
- HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL
- BNSF RAILYARD

NOTE
HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL SENTRY WELLS NOT SHOWN

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FIGURE 1

SITE PLAN SHOWING
GROUNDWATER MONITORING NETWORK
BNSF FORMER MAINTENANCE
AND FUELING FACILITY
SKYKOMISH, WASHINGTON

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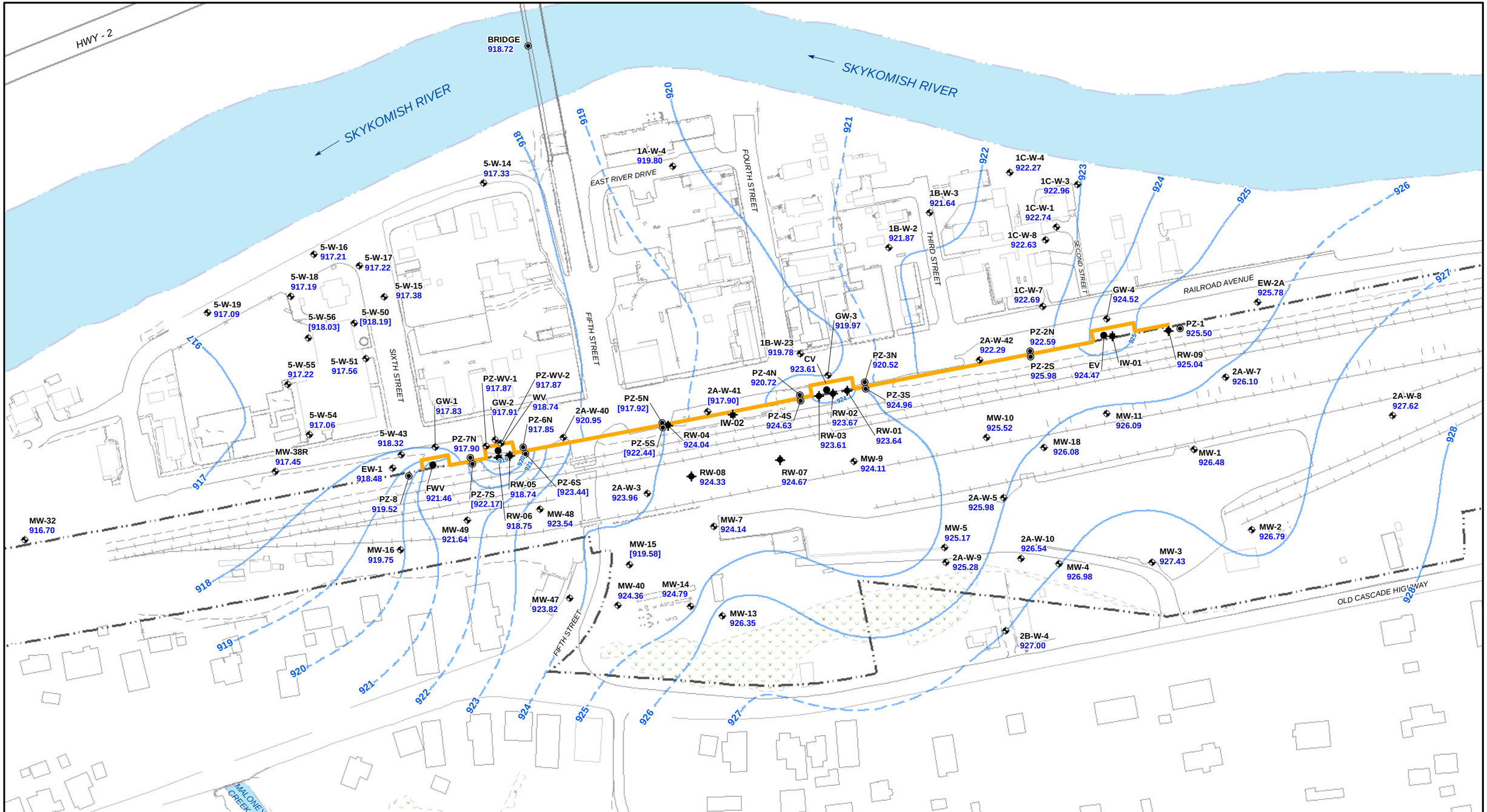
Drawn By: tperrin | Checked By:TC | Date: 3/15/2016 | Disc Reference:
Document Path: G:\Projects\683 BNSF\683043 Skykomish Ongoing Cleanup Activities\GIS\GW_2015\FIGURE 1 Siteplan_2015_wells.mxd



LEGEND

2A-W-41	MONITORING WELL
RW-04	RECOVERY WELL
PZ-5S	PIEZOMETER
IW-02	INJECTION WELL
FMW	VAULT WELL
927.48	GROUNDWATER ELEVATION (MARCH, 2015)
[923.54]	GROUNDWATER ELEVATION NOT CONSIDERED FOR CONTOURING PURPOSES
927	APPROXIMATE GROUNDWATER ELEVATION CONTOUR (INFERRED WHERE DASHED)
	HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL
	BNSF RAILYARD

NOTE:
HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL SENTRY WELLS NOT SHOWN.
SOME OF THE MEASURED HEAD VALUES IN CLOSE PROXIMITY TO THE BARRIER WALL MAY EXHIBIT SOME VARIABILITY/SLIGHT INCONSISTENCY WITH THE INTERPRETED CONTOURS. THIS COULD BE ATTRIBUTED TO VARIABILITY OF MEASUREMENT PRACTICE WITH RESPECT TO VAULT LIDS.

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FIGURE 2

MARCH 2015
GROUNDWATER ELEVATION CONTOUR MAP
BNSF FORMER MAINTENANCE
AND FUELING FACILITY
SKYKOMISH, WASHINGTON

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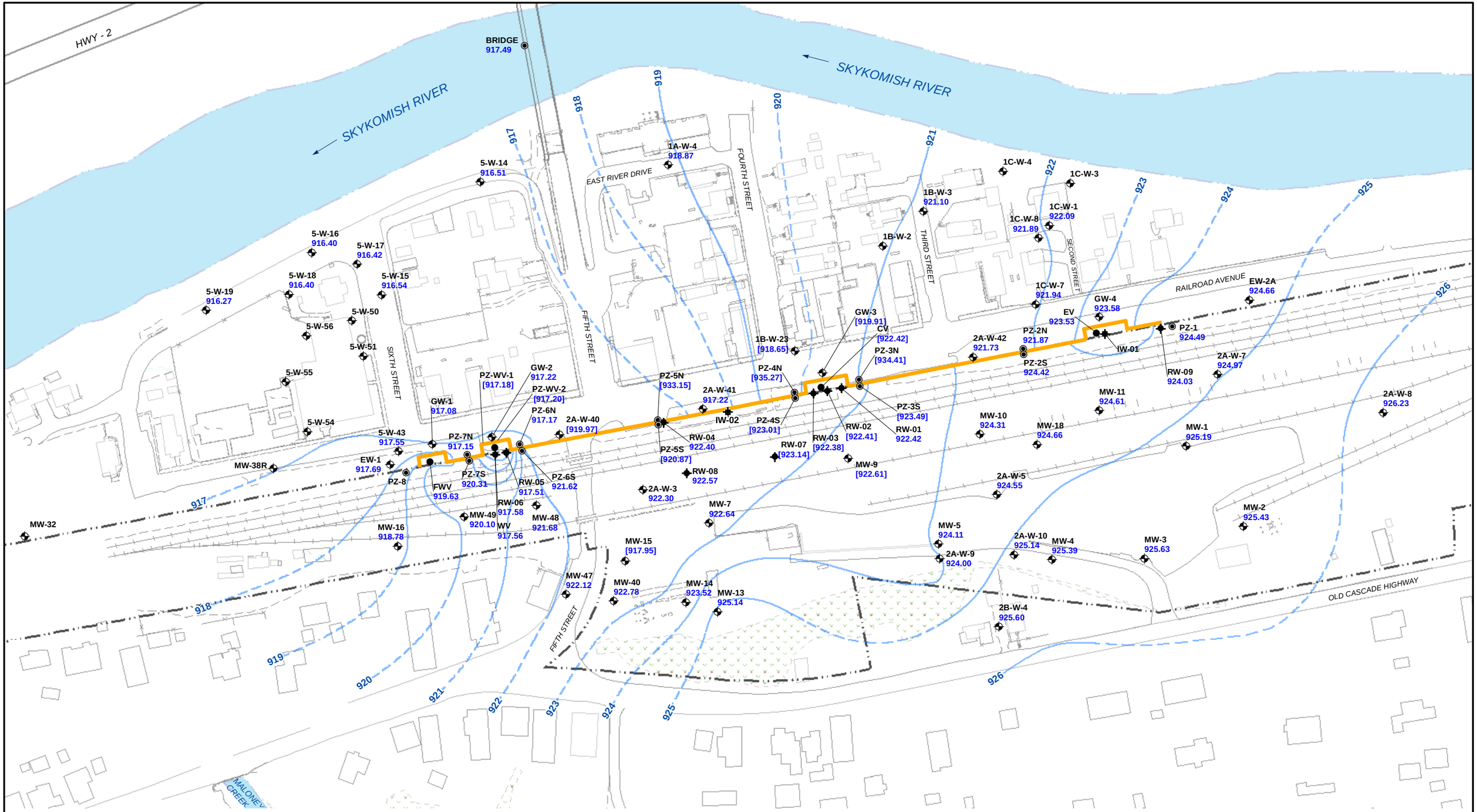
Drawn By: tperrin | Checked By: JP | Date: 3/14/2016 | Disc Reference:
Document Path: G:\Projects\683 BNSF\683043 Skykomish Ongoing Cleanup Activities\GIS\GW_2015\FIGURE 2-5 GW_MARCH2015.mxd



LEGEND

2A-W-41	MONITORING WELL	
RW-04	RECOVERY WELL	
PZ-5S	PIEZOMETER	
IW-02	INJECTION WELL	
FMW	VAULT WELL	
927.48	GROUNDWATER ELEVATION (MARCH, 2015)	
[923.54]	GROUNDWATER ELEVATION NOT CONSIDERED FOR CONTOURING PURPOSES	
927	APPROXIMATE GROUNDWATER ELEVATION CONTOUR (INFERRED WHERE DASHED)	
	HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL	
	BNSF RAILYARD	

NOTE:
HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL SENTRY WELLS NOT SHOWN.
SOME OF THE MEASURED HEAD VALUES IN CLOSE PROXIMITY TO THE BARRIER WALL MAY EXHIBIT SOME VARIABILITY/SLIGHT INCONSISTENCY WITH THE INTERPRETED CONTOURS. THIS COULD BE ATTRIBUTED TO VARIABILITY OF MEASUREMENT PRACTICE WITH RESPECT TO VAULT LIDS.

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FIGURE 3

JUNE 2015
GROUNDWATER ELEVATION CONTOUR MAP
BNSF FORMER MAINTENANCE
AND FUELING FACILITY
SKYKOMISH, WASHINGTON

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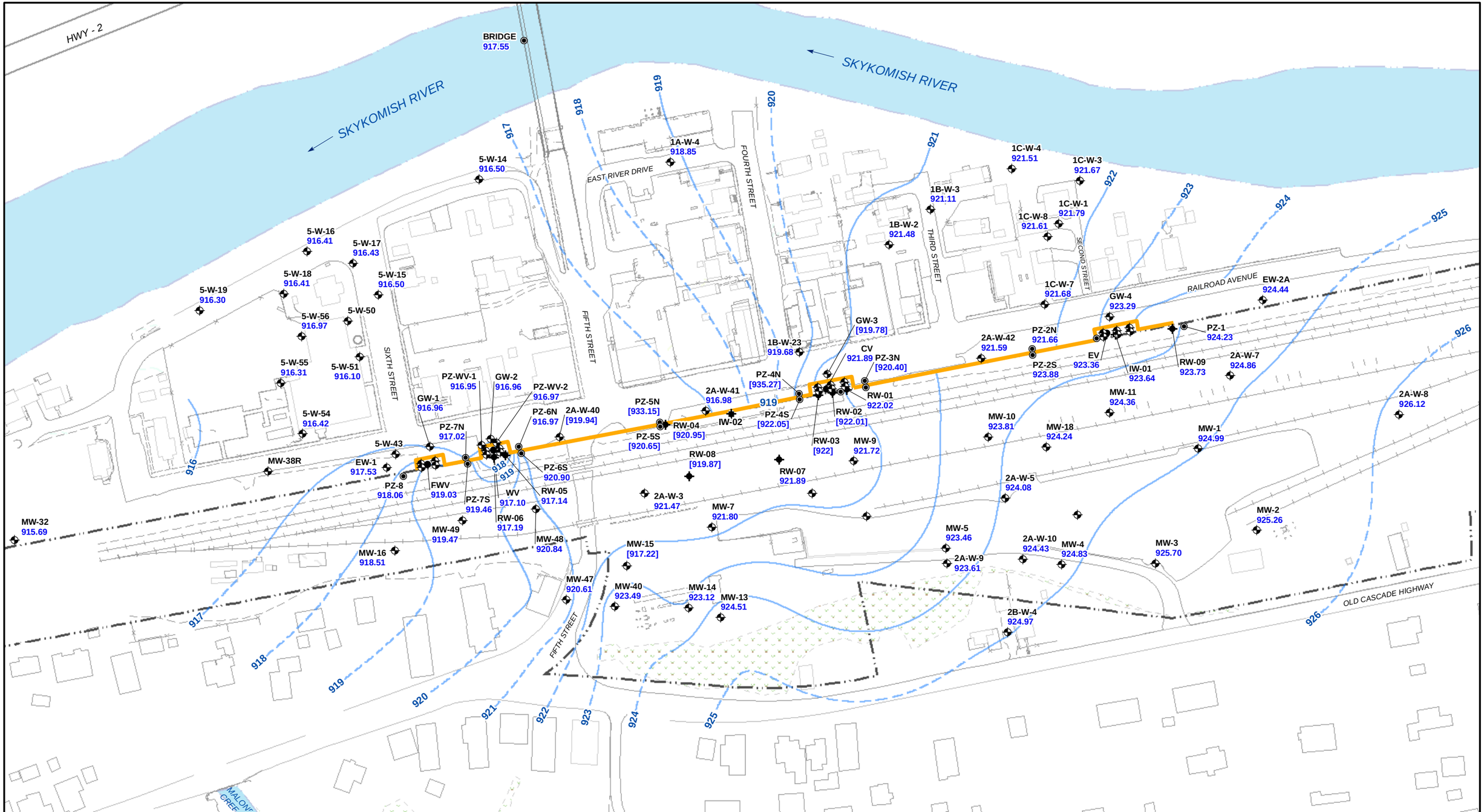
Drawn By: tperrin | Checked By: JP | Date: 3/14/2016 | Disc Reference:
Document Path: G:\Projects\683 BNSF\683043 Skykomish Ongoing Cleanup Activities\GIS\GW_2015\FIGURE 2-5 GW_MARCH2015.mxd



LEGEND

2A-W-41	MONITORING WELL	
RW-04	RECOVERY WELL	
PZ-5S	PIEZOMETER	
IW-02	INJECTION WELL	
FMW	VAULT WELL	
927.48	GROUNDWATER ELEVATION (MARCH, 2015)	
[923.54]	GROUNDWATER ELEVATION NOT CONSIDERED FOR CONTOURING PURPOSES	
927	APPROXIMATE GROUNDWATER ELEVATION CONTOUR (INFERRED WHERE DASHED)	
	HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL	
	BNSF RAILYARD	

NOTE:
HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL SENTRY WELLS NOT SHOWN.
SOME OF THE MEASURED HEAD VALUES IN CLOSE PROXIMITY TO THE BARRIER WALL MAY EXHIBIT SOME VARIABILITY/SLIGHT INCONSISTENCY WITH THE INTERPRETED CONTOURS. THIS COULD BE ATTRIBUTED TO VARIABILITY OF MEASUREMENT PRACTICE WITH RESPECT TO VAULT LIDS.

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FIGURE 4

SEPTEMBER 2015
GROUNDWATER ELEVATION CONTOUR MAP
BNSF FORMER MAINTENANCE
AND FUELING FACILITY
SKYKOMISH, WASHINGTON

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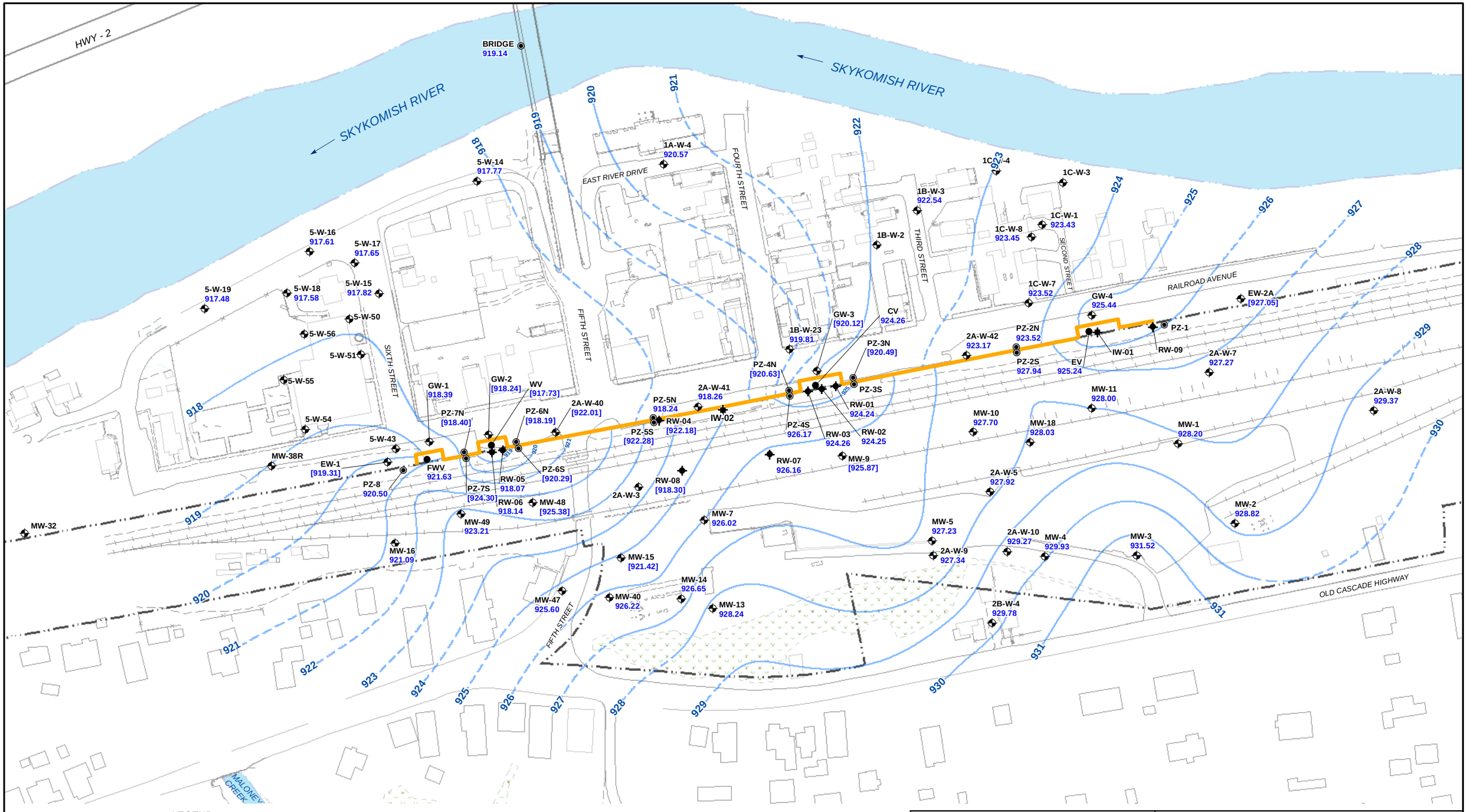
Document Path: G:\Projects\683 BNSF\683043 Skykomish Ongoing Cleanup Activities\GIS\GW_2015\FIGURE 2-5 GW_MARCH2015.mxd



LEGEND

2A-W-41	MONITORING WELL	
RW-04	RECOVERY WELL	
PZ-5S	PIEZOMETER	
IW-02	INJECTION WELL	
FMW	VAULT WELL	
927.48	GROUNDWATER ELEVATION (MARCH, 2015)	
[923.54]	GROUNDWATER ELEVATION NOT CONSIDERED FOR CONTOURING PURPOSES	
927	APPROXIMATE GROUNDWATER ELEVATION CONTOUR (INFERRED WHERE DASHED)	
	HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL	
	BNSF RAILYARD	

NOTE:
HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL SENTRY WELLS NOT SHOWN.
SOME OF THE MEASURED HEAD VALUES IN CLOSE PROXIMITY TO THE BARRIER WALL MAY EXHIBIT SOME VARIABILITY/SLIGHT INCONSISTENCY WITH THE INTERPRETED CONTOURS. THIS COULD BE ATTRIBUTED TO VARIABILITY OF MEASUREMENT PRACTICE WITH RESPECT TO VAULT LIDS.

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FIGURE 5

DECEMBER 2015
GROUNDWATER ELEVATION CONTOUR MAP
BNSF FORMER MAINTENANCE
AND FUELING FACILITY
SKYKOMISH, WASHINGTON

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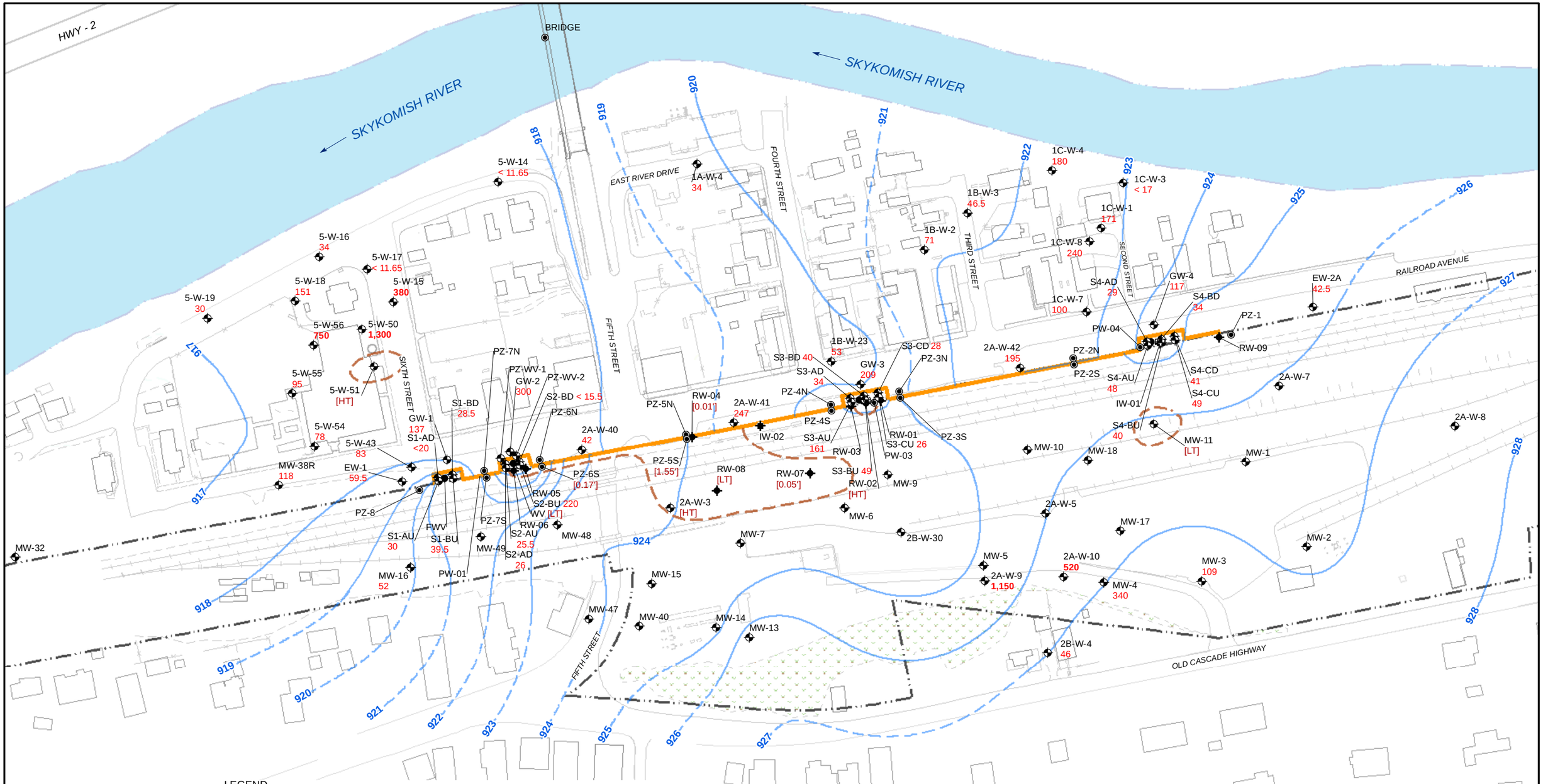

LEGEND

50.5 TOTAL PETROLEUM HYDROCARBONS IN MICROGRAMS PER LITER CALCULATED BY SUMMING THE ANALYTICAL RESULTS FOR THE DIESEL-RANGE AND OIL-RANGE FRACTIONS. IF EITHER THE DIESEL OR OIL-RANGE FRACTIONS WERE NOT DETECTED THEN HALF THE ANALYTICAL METHOD DETECTION LIMIT WAS USED IN THE CALCULATION. IF BOTH FRACTIONS WERE NOT DETECTED, THEN HALF THE ANALYTICAL METHOD DETECTION LIMITS WERE ADDED TO REPRESENT THE CALCULATED TOTAL PETROLEUM HYDROCARBONS CONCENTRATION PREFIXED BY THE "<" SYMBOL.
BOLD INDICATES THAT THE TOTAL PETROLEUM HYDROCARBONS CONCENTRATION EXCEEDS THE 208 MICROGRAMS PER LITER CLEANUP LEVEL IN LEVEE ZONE MONITORING WELLS OR THE 477 MICROGRAMS PER LITER REMEDIATION LEVEL IN OTHER MONITORING WELLS.

2A-W-41 MONITORING WELL
RW-04 RECOVERY WELL
PZ-5S PIEZOMETER
IW-02 INJECTION WELL
FMW VAULT WELL

927 APPROXIMATE GROUNDWATER ELEVATION CONTOUR (INFERRED WHERE DASHED)

HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL

BNSF RAILYARD

LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID
NE = NOT ENCOUNTERED

ESTIMATED EXTENT OF LNAPL AS INDICATED BY LIGHT TRACE (LT), HEAVY TRACE (HT), OR PRODUCT THICKNESS ON GROUNDWATER DURING THE MONITORING EVENT (2015).

[HT] HEAVY TRACE. NO MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET

[LT] LIGHT TRACE. NO MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET

[1.15'] MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET

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FIGURE 6

MARCH 2015 TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER
BNSF FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

FARALLON PN: 683-043

Drawn By: tperrin
Checked By: TC
Date: 3/15/2016
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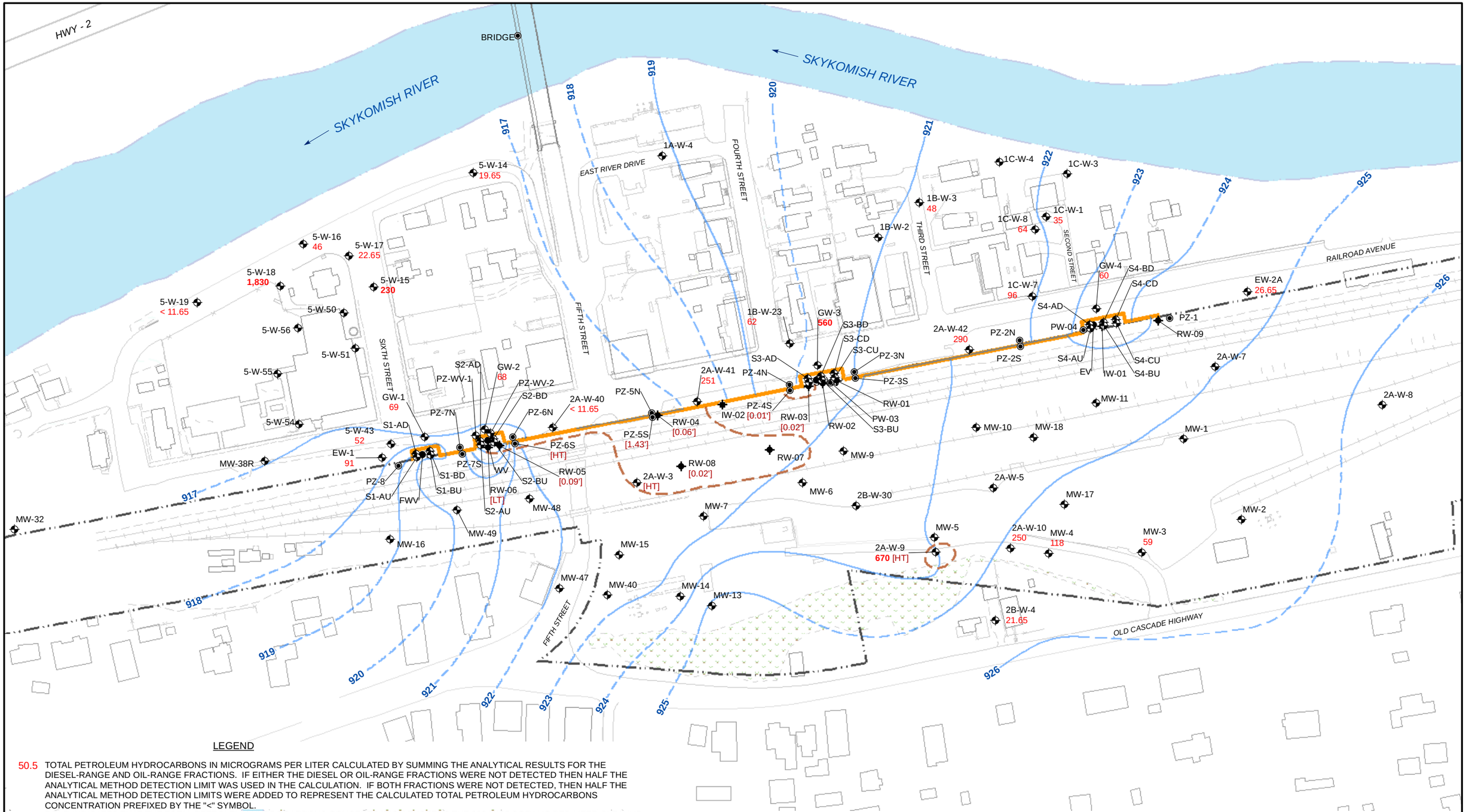
Document Path: G:\Projects\683 BNSF\683043 Skykomish Ongoing Cleanup Activities\GIS\GW_2015\FIGURE 6-10 TPH-GW_2015.mxd



LEGEND

50.5 TOTAL PETROLEUM HYDROCARBONS IN MICROGRAMS PER LITER CALCULATED BY SUMMING THE ANALYTICAL RESULTS FOR THE DIESEL-RANGE AND OIL-RANGE FRACTIONS. IF EITHER THE DIESEL OR OIL-RANGE FRACTIONS WERE NOT DETECTED THEN HALF THE ANALYTICAL METHOD DETECTION LIMIT WAS USED IN THE CALCULATION. IF BOTH FRACTIONS WERE NOT DETECTED, THEN HALF THE ANALYTICAL METHOD DETECTION LIMITS WERE ADDED TO REPRESENT THE CALCULATED TOTAL PETROLEUM HYDROCARBONS CONCENTRATION PREFIXED BY THE "<" SYMBOL.
BOLD INDICATES THAT THE TOTAL PETROLEUM HYDROCARBONS CONCENTRATION EXCEEDS THE 208 MICROGRAMS PER LITER CLEANUP LEVEL IN LEVEE ZONE MONITORING WELLS OR THE 477 MICROGRAMS PER LITER REMEDIATION LEVEL IN OTHER MONITORING WELLS.

2A-W-41 MONITORING WELL
RW-04 RECOVERY WELL
PZ-5S PIEZOMETER
IW-02 INJECTION WELL
FMW VAULT WELL

927 APPROXIMATE GROUNDWATER ELEVATION CONTOUR (INFERRED WHERE DASHED)

HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL

BNSF RAILYARD

LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID
NE = NOT ENCOUNTERED

ESTIMATED EXTENT OF LNAPL AS INDICATED BY LIGHT TRACE (LT), HEAVY TRACE (HT), OR PRODUCT THICKNESS ON GROUNDWATER DURING THE MONITORING EVENT (2015).

[HT] HEAVY TRACE. NO MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET

[LT] LIGHT TRACE. NO MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET

[1.15'] MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET

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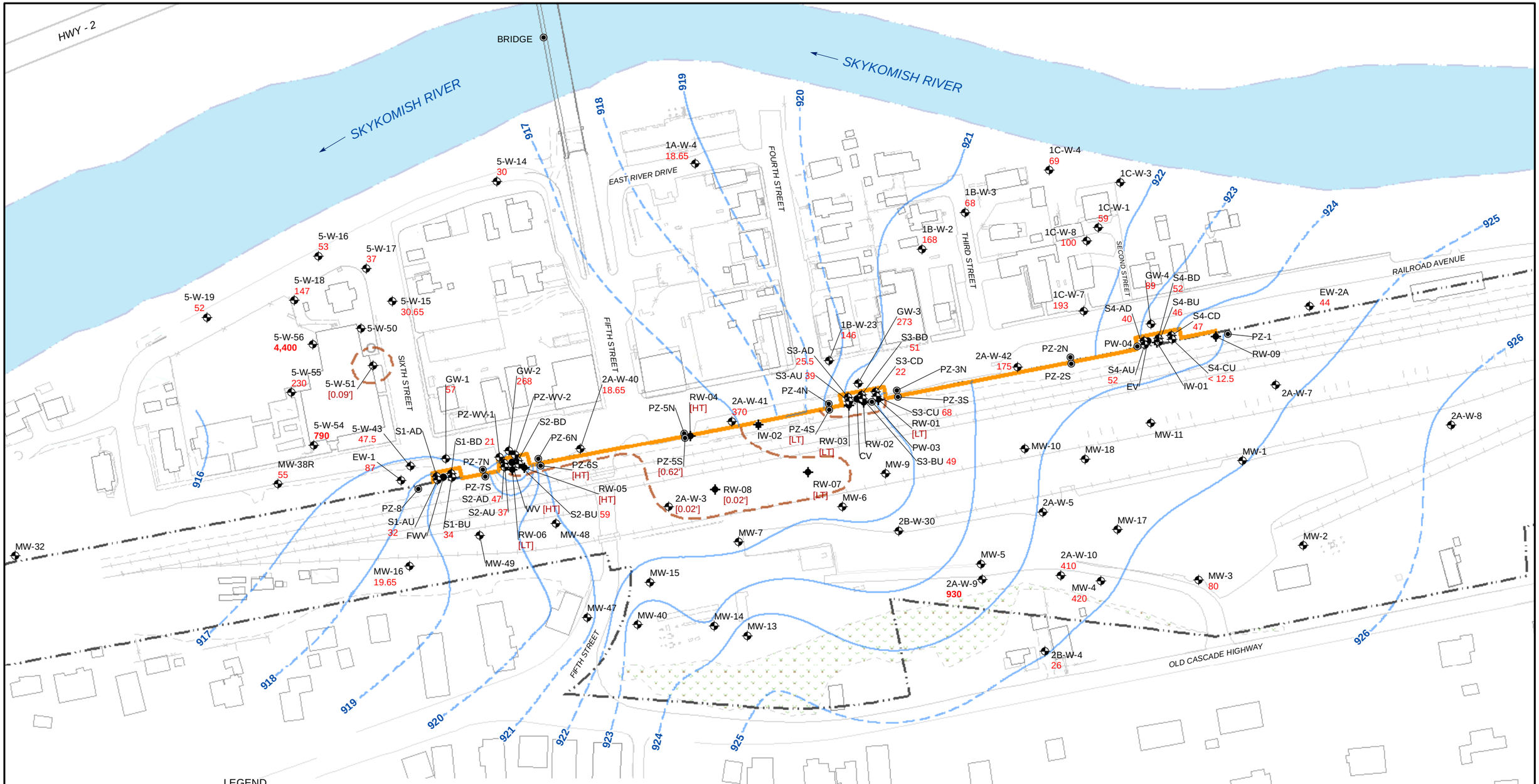
FIGURE 7

JUNE 2015 TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER
BNSF FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

FARALLON PN: 683-043

Drawn By: tperrin
Checked By: TC
Date: 3/15/2016
Disc Reference:
Document Path: G:\Projects\683 BNSF\683043 Skykomish Ongoing Cleanup Activities\GIS\GW_2015\FIGURE 6-10 TPH-GW_2015.mxd



LEGEND

50.5 TOTAL PETROLEUM HYDROCARBONS IN MICROGRAMS PER LITER CALCULATED BY SUMMING THE ANALYTICAL RESULTS FOR THE DIESEL-RANGE AND OIL-RANGE FRACTIONS. IF EITHER THE DIESEL OR OIL-RANGE FRACTIONS WERE NOT DETECTED THEN HALF THE ANALYTICAL METHOD DETECTION LIMIT WAS USED IN THE CALCULATION. IF BOTH FRACTIONS WERE NOT DETECTED, THEN HALF THE ANALYTICAL METHOD DETECTION LIMITS WERE ADDED TO REPRESENT THE CALCULATED TOTAL PETROLEUM HYDROCARBONS CONCENTRATION PREFIXED BY THE "<" SYMBOL.
BOLD INDICATES THAT THE TOTAL PETROLEUM HYDROCARBONS CONCENTRATION EXCEEDS THE 208 MICROGRAMS PER LITER CLEANUP LEVEL IN LEVEE ZONE MONITORING WELLS OR THE 477 MICROGRAMS PER LITER REMEDIATION LEVEL IN OTHER MONITORING WELLS.

- 2A-W-41 MONITORING WELL
- RW-04 RECOVERY WELL
- PZ-5S PIEZOMETER
- IW-02 INJECTION WELL
- FMW VAULT WELL
- –927– APPROXIMATE GROUNDWATER ELEVATION CONTOUR (INFERRED WHERE DASHED)
- HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL
- BNSF RAILYARD
- LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID
- NE = NOT ENCOUNTERED
- ESTIMATED EXTENT OF LNAPL AS INDICATED BY LIGHT TRACE (LT), HEAVY TRACE (HT), OR PRODUCT THICKNESS ON GROUNDWATER DURING THE MONITORING EVENT (2015).
- [HT] HEAVY TRACE. NO MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET
- [LT] LIGHT TRACE. NO MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET
- [1.15'] MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET

N

0 140
SCALE IN FEET

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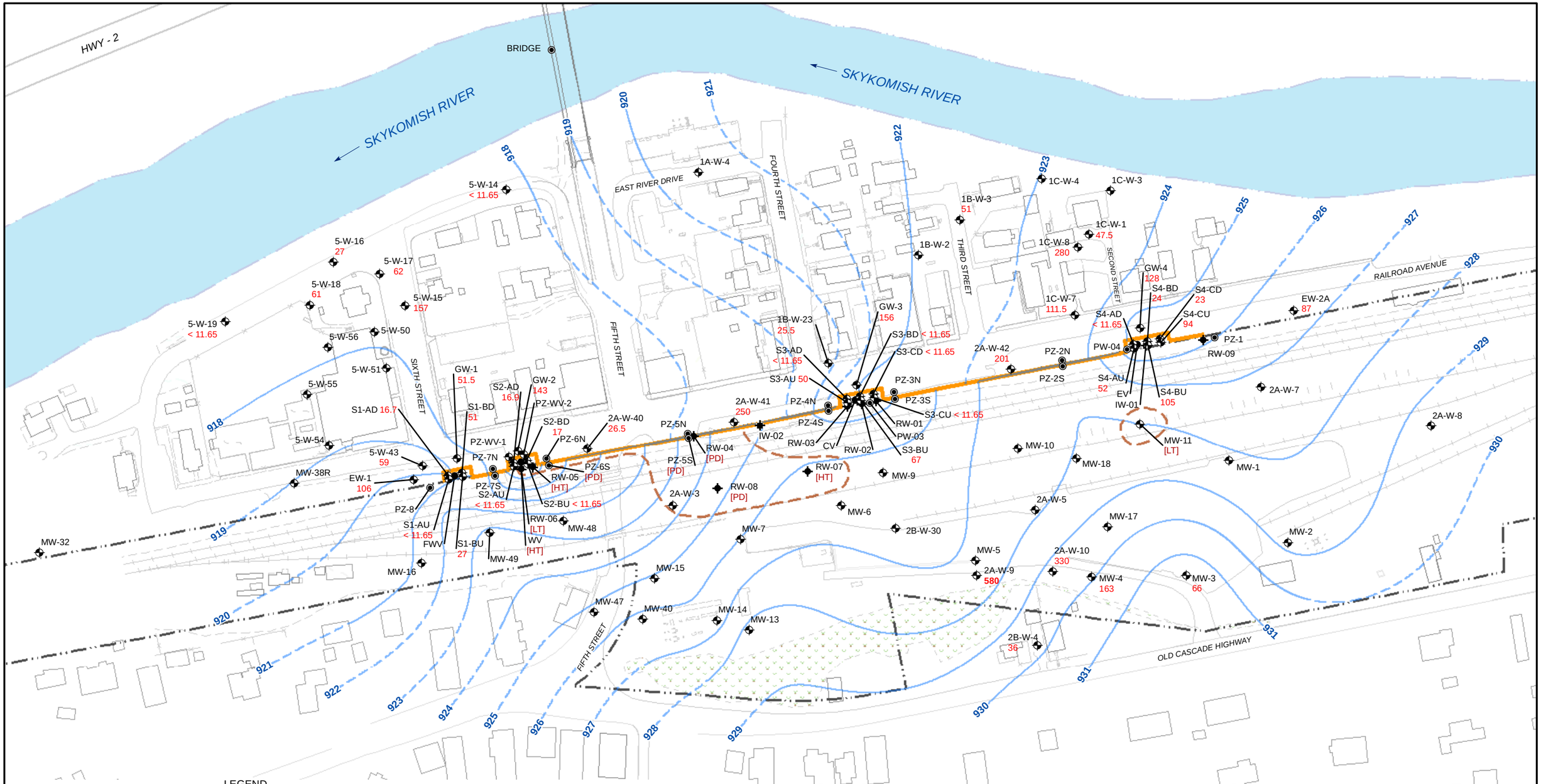
FIGURE 8

SEPTEMBER 2015 TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER
BNSF FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

FARALLON PN: 683-043

Drawn By: tperrin | Checked By: TC | Date: 3/15/2016 | Disc Reference:
Document Path: G:\Projects\683 BNSF\683043 Skykomish Ongoing Cleanup Activities\GIS\GW_2015\FIGURE 6-10 TPH-GW_2015.mxd



LEGEND

50.5 TOTAL PETROLEUM HYDROCARBONS IN MICROGRAMS PER LITER CALCULATED BY SUMMING THE ANALYTICAL RESULTS FOR THE DIESEL-RANGE AND OIL-RANGE FRACTIONS. IF EITHER THE DIESEL OR OIL-RANGE FRACTIONS WERE NOT DETECTED THEN HALF THE ANALYTICAL METHOD DETECTION LIMIT WAS USED IN THE CALCULATION. IF BOTH FRACTIONS WERE NOT DETECTED, THEN HALF THE ANALYTICAL METHOD DETECTION LIMITS WERE ADDED TO REPRESENT THE CALCULATED TOTAL PETROLEUM HYDROCARBONS CONCENTRATION PREFIXED BY THE "<" SYMBOL.
BOLD INDICATES THAT THE TOTAL PETROLEUM HYDROCARBONS CONCENTRATION EXCEEDS THE 208 MICROGRAMS PER LITER CLEANUP LEVEL IN LEVEE ZONE MONITORING WELLS OR THE 477 MICROGRAMS PER LITER REMEDIATION LEVEL IN OTHER MONITORING WELLS.

- 2A-W-41 — MONITORING WELL
- RW-04 — RECOVERY WELL
- PZ-5S — PIEZOMETER
- IW-02 — INJECTION WELL
- FMW — VAULT WELL
- –927– — APPROXIMATE GROUNDWATER ELEVATION CONTOUR (INFERRED WHERE DASHED)
- HYDRAULIC CONTROL AND CONTAINMENT SYSTEM BARRIER WALL
- BNSF RAILYARD
- LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID
- NE = NOT ENCOUNTERED
- ESTIMATED EXTENT OF LNAPL AS INDICATED BY LIGHT TRACE (LT), HEAVY TRACE (HT), OR PRODUCT THICKNESS ON GROUNDWATER DURING THE MONITORING EVENT (2015).
- [HT] HEAVY TRACE. NO MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET
- [LT] LIGHT TRACE. NO MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET
- [1.15'] MEASURABLE PRODUCT THICKNESS GREATER THAN 0.01 FEET
- PD LNAPL PRESENCE DETECTED

N

0 140
SCALE IN FEET

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FIGURE 9

DECEMBER 2015 TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER
BNSF FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

FARALLON PN: 683-043

Drawn By: tperrin | Checked By: TC | Date: 3/15/2016 | Disc Reference:
Document Path: G:\Projects\683 BNSF\683043 Skykomish Ongoing Cleanup Activities\GIS\GW_2015\FIGURE 6-10 TPH-GW_2015.mxd

TABLES

2015 SITE-WIDE
GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043

Table 1
2015 Modifications to the Groundwater Monitoring Network
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Activity	Date	Location Identification	Location Type	Location Monitoring Function	Rationale for Groundwater Monitoring Network Modification	Reference for Planned Activity
Well damaged during construction work and scheduled for replacement	August 2015	5-W-50	Monitoring Well	School yard monitoring well	Well was damaged during excavation of the Skykomish School hot water flushing system recovery trench.	Will continue to monitor during semiannual monitoring events when replaced in summer 2016.
Well damaged during construction work and was replaced	July 2015	5-W-55	Monitoring Well	School yard monitoring well	Well was damaged during installation of the Skykomish School hot water flushing system sheet pile wall and was replaced on August 20, 2015.	Continue to monitor during semiannual monitoring events.
Well damaged by heavy equipment along Railroad Avenue	August 2015	5-W-43	Monitoring Well	Monitoring well down-gradient of the HCC System	Well was damaged by heavy equipment traffic and was repaired.	Continue to monitor during semiannual and quarterly monitoring events.
Well damaged by heavy equipment along Railroad Avenue	August 2015	MW-38R	Monitoring Well	Site-wide monitoring well	Well was damaged by heavy equipment traffic and was repaired.	Continue to monitor during semiannual and quarterly monitoring events.

NOTE:
HCC = Hydraulic Control and Containment

Table 2
2015 Groundwater Monitoring Event Dates
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Event	Start Date	End Date
Semiannual Fluid Gauging Event	03/23/2015	03/23/2015
Semiannual Groundwater Sampling Event	03/24/2015	03/26/2015
Quarterly Fluid Gauging Event	06/16/2015	06/16/2015
Quarterly Groundwater Sampling Event	06/17/2015	06/18/2015
Semiannual Fluid Gauging Event	09/21/2015	09/21/2015
Semiannual Groundwater Sampling Event	09/22/2015	09/24/2015
Quarterly Fluid Gauging Event	12/07/2015	12/07/2015
Quarterly Groundwater Sampling Event	12/08/2015	12/10/2015

NOTE:
Sampling details for each monitoring event are included in Table 3.

Table 3
2015 Groundwater Sampling Event Details
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Zone	Location Identification	Groundwater Sampling Events		Analyte
		Quarterly	Semiannually	
Air Sparging System	1B-W-3	X	X	NWTPH-Dx
	1C-W-7	X	X	NWTPH-Dx
	1C-W-8	X	X	NWTPH-Dx
FMCZ-EW and Surrounding Areas	2A-W-10	X	X	NWTPH-Dx
	2A-W-9	X	X	NWTPH-Dx
	2B-W-4	X	X	NWTPH-Dx
	MW-3	X	X	NWTPH-Dx
	MW-4	X	X	NWTPH-Dx
HCC System	EW-1	X	X	NWTPH-Dx
	EW-2A	X	X	NWTPH-Dx
	GW-1	X	X	NWTPH-Dx
	GW-2	X	X	NWTPH-Dx
	GW-3	X	X	NWTPH-Dx
	GW-4	X	X	NWTPH-Dx
	S1-AD	—	X	NWTPH-Dx
	S1-AU	—	X	NWTPH-Dx
	S1-BD	—	X	NWTPH-Dx
	S1-BU	—	X	NWTPH-Dx
	S2-AD	—	X	NWTPH-Dx
	S2-AU	—	X	NWTPH-Dx
	S2-BD	—	X	NWTPH-Dx
	S2-BU	—	X	NWTPH-Dx
	S3-AD	—	X	NWTPH-Dx
	S3-AU	—	X	NWTPH-Dx
	S3-BD	—	X	NWTPH-Dx
	S3-BU	—	X	NWTPH-Dx
	S3-CD	—	X	NWTPH-Dx
	S3-CU	—	X	NWTPH-Dx
	S4-AD	—	X	NWTPH-Dx
	S4-AU	—	X	NWTPH-Dx
	S4-BD	—	X	NWTPH-Dx
	S4-BU	—	X	NWTPH-Dx
	S4-CD	—	X	NWTPH-Dx
	S4-CU	—	X	NWTPH-Dx
Levee	5-W-14	X	X	NWTPH-Dx
	5-W-15	X	X	NWTPH-Dx
	5-W-16	X	X	NWTPH-Dx
	5-W-17	X	X	NWTPH-Dx
	5-W-18	X	X	NWTPH-Dx
	5-W-19	X	X	NWTPH-Dx
Down-gradient of the HCC	1B-W-23	X	X	NWTPH-Dx
	2A-W-40	X	X	NWTPH-Dx
	2A-W-41	X	X	NWTPH-Dx
	2A-W-42	X	X	NWTPH-Dx
	5-W-43	X	X	NWTPH-Dx

Table 3
2015 Groundwater Sampling Event Details
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Zone	Location Identification	Groundwater Sampling Events		Analyte
		Quarterly	Semiannually	
Schoolyard	5-W-50	—	X	NWTPH-Dx
	5-W-51	—	X	NWTPH-Dx
	5-W-54	—	X	NWTPH-Dx
	5-W-55	—	X	NWTPH-Dx
	5-W-56	—	X	NWTPH-Dx
Site-Wide	1A-W-4	—	X	NWTPH-Dx
	1B-W-2	—	X	NWTPH-Dx
	1C-W-1	X	X	NWTPH-Dx
	1C-W-3	—	X	NWTPH-Dx
	1C-W-4	—	X	NWTPH-Dx
	MW-16	—	X	NWTPH-Dx
	MW-38R	—	X	NWTPH-Dx

NOTES:
FMCZ-EW = Former Maloney Creek Zone - East Wetland
HCC = Hydraulic Control and Containment
NWTPH-Dx = total petroleum hydrocarbons as diesel- and as oil-range organics

Table 4
2015 Groundwater Elevation Gauging Events Summary
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Zone	Location Identification	Gauging Frequency			
		Continuous[1]	Weekly	Quarterly	Semiannually
Air Sparging System	1B-W-3	—	—	X	X
	1C-W-7	—	—	X	X
	1C-W-8	—	—	X	X
FMCZ-EW and Surrounding Areas	2A-W-10	—	—	X	X
	2A-W-3	—	—	X	X
	2A-W-5	—	—	X	X
	2A-W-7	—	—	X	X
	2A-W-9	—	—	X	X
	2B-W-4	—	—	X	X
	MW-1	—	—	X	X
	MW-10	—	—	X	X
	MW-11	—	—	X	X
	MW-13	—	—	X	X
	MW-14	—	—	X	X
	MW-15	—	—	X	X
	MW-18	—	—	X	X
	MW-2	—	—	X	X
	MW-3	—	—	X	X
	MW-4	—	—	X	X
	MW-40	—	—	X	X
	MW-5	—	—	X	X
	MW-7	—	—	X	X
	MW-9	—	—	X	X
HCC System	EW-1	—	—	X	X
	EW-2A	—	—	X	X
	GW-1	X	X	X	X
	GW-2	X	X	X	X
	GW-3	X	X	X	X
	GW-4	X	X	X	X
	IW-01	—	—	—	X
	PZ-1	X	—	X	X
	PZ-2N	X	—	X	X
	PZ-2S	X	—	X	X
	PZ-3N	X	—	X	X
	PZ-3S	X	—	X	X

Table 4
2015 Groundwater Elevation Gauging Events Summary
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Zone	Location Identification	Gauging Frequency			
		Continuous[1]	Weekly	Quarterly	Semiannually
HCC System (continued)	PZ-4N	X	—	X	X
	PZ-4S	X	—	X	X
	PZ-5N	X	—	X	X
	PZ-5S	X	—	X	X
	PZ-6N	X	—	X	X
	PZ-6S	X	—	X	X
	PZ-7N	X	—	X	X
	PZ-7S	X	—	X	X
	PZ-8	X	—	X	X
	RW-01	X	—	X	X
	RW-02	X	—	X	X
	RW-03	X	—	X	X
	RW-04	X	—	X	X
	RW-05	X	—	X	X
	RW-06	X	—	X	X
	RW-07	X	—	X	X
	RW-08	X	—	X	X
	RW-09	X	—	X	X
	CV	X	X	X	X
	EV	X	X	X	X
	FWV	X	X	X	X
	WV	X	X	X	X
Levee	5-W-14	—	—	X	X
	5-W-15	—	—	X	X
	5-W-16	—	—	X	X
	5-W-17	—	—	X	X
	5-W-18	—	—	X	X
	5-W-19	—	—	X	X
Down-gradient of the HCC System	1B-W-23	—	—	X	X
	2A-W-40	—	—	X	X
	2A-W-41	—	—	X	X
	2A-W-42	—	—	X	X
	5-W-43	—	—	X	X
Schoolyard	5-W-50	—	—	—	X
	5-W-51	—	—	—	X
	5-W-54	—	—	—	X
	5-W-55	—	—	—	X
	5-W-56	—	—	—	X

Table 4
2015 Groundwater Elevation Gauging Events Summary
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Zone	Location Identification	Gauging Frequency			
		Continuous[1]	Weekly	Quarterly	Semiannually
Site-Wide	1A-W-4	—	—	X	X
	1B-W-2	—	—	—	X
	1C-W-1	—	—	X	X
	1C-W-3	—	—	—	X
	1C-W-4	—	—	—	X
	2A-W-8	—	—	X	X
	MW-16	—	—	X	X
	MW-32	—	—	—	X
	MW-38R	—	—	X	X
	MW-47[2]	—	—	X	X
	MW-48[2]	—	—	X	X
	MW-49[2]	—	—	X	X
Surface Water Monitoring Station	Bridge	—	—	X	X

NOTES:

— denotes not gauged at the frequency indicated.

[1] Water level transducers have been used to collect continuous water level measurements at these locations. Water levels are recorded daily.

[2] Wells installed during August 2012.

FMCZ-EW = Former Maloney Creek Zone - East Wetland
HCC = Hydraulic Control and Containment

Table 5
2015 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
Air Sparge Area Monitoring Wells					
1B-W-3	936.66	3/23/2015	15.02	921.64	—
		6/16/2015	15.56	921.10	—
		9/21/2015	15.55	921.11	—
		12/7/2015	14.12	922.54	—
1C-W-7	935.04	3/23/2015	12.35	922.69	—
		6/16/2015	13.10	921.94	—
		9/21/2015	13.36	921.68	—
		12/7/2015	11.52	923.52	—
1C-W-8	935.7	3/23/2015	13.07	922.63	—
		6/16/2015	13.81	921.89	—
		9/21/2015	14.09	921.61	—
		12/7/2015	12.25	923.45	—
Former Maloney Creek Zone - East Wetland and Surrounding Area Monitoring Wells					
2A-W-10	937.93	3/23/2015	11.39	926.54	—
		6/16/2015	12.79	925.14	—
		9/21/2015	13.50	924.43	—
		12/7/2015	8.66	929.27	—
2A-W-3	934.43	3/23/2015	10.47	923.96	Heavy Trace
		6/16/2015	12.13	922.30	Heavy Trace
		9/21/2015	12.96	921.47	0.02
		12/7/2015	NM	NM	—
2A-W-5	939.47	3/23/2015	13.49	925.98	—
		6/16/2015	14.92	924.55	—
		9/21/2015	15.39	924.08	—
		12/7/2015	11.55	927.92	—
2A-W-7	937.76	3/23/2015	11.66	926.10	—
		6/16/2015	12.79	924.97	—
		9/21/2015	12.90	924.86	—
		12/7/2015	10.49	927.27	—

Table 5
2015 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
2A-W-9	936.58	3/23/2015	11.30	925.28	—
		6/16/2015	12.58	924.00	Heavy Trace
		9/21/2015	12.97	923.61	—
		12/7/2015	9.24	927.34	—
2B-W-4	931.03	3/23/2015	4.03	927.00	—
		6/16/2015	5.43	925.60	—
		9/21/2015	6.06	924.97	—
		12/7/2015	1.25	929.78	—
MW-1	939.2	3/23/2015	12.72	926.48	—
		6/16/2015	14.01	925.19	—
		9/21/2015	14.21	924.99	—
		12/7/2015	11.00	928.20	—
MW-10	938.34	3/23/2015	12.82	925.52	—
		6/16/2015	14.03	924.31	—
		9/21/2015	14.53	923.81	—
		12/7/2015	10.64	927.70	—
MW-11	939.2	3/23/2015	13.11	926.09	Light Trace
		6/16/2015	14.59	924.61	—
		9/21/2015	14.84	924.36	—
		12/7/2015	11.20	928.00	Light Trace
MW-13	936.49	3/23/2015	10.14	926.35	—
		6/16/2015	11.35	925.14	—
		9/21/2015	11.98	924.51	—
		12/7/2015	8.25	928.24	—
MW-14	936.8	3/23/2015	12.01	924.79	—
		6/16/2015	13.28	923.52	—
		9/21/2015	13.68	923.12	—
		12/7/2015	10.15	926.65	—
MW-15	933.32	3/23/2015	13.74	919.58	—
		6/16/2015	15.37	917.95	—
		9/21/2015	16.10	917.22	—
		12/7/2015	11.90	921.42	—

Table 5
2015 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
MW-18	940.68	3/23/2015	14.60	926.08	—
		6/16/2015	16.02	924.66	—
		9/21/2015	16.44	924.24	—
		12/7/2015	12.65	928.03	—
MW-2	939.2	3/23/2015	12.41	926.79	—
		6/16/2015	13.77	925.43	—
		9/21/2015	13.94	925.26	—
		12/7/2015	10.38	928.82	—
MW-3	938.03	3/23/2015	10.60	927.43	—
		6/16/2015	12.40	925.63	—
		9/21/2015	12.33	925.70	—
		12/7/2015	6.51	931.52	—
MW-4	936.95	3/23/2015	9.97	926.98	—
		6/16/2015	11.56	925.39	—
		9/21/2015	12.12	924.83	—
		12/7/2015	7.02	929.93	—
MW-40	936.95	3/23/2015	12.59	924.36	—
		6/16/2015	14.17	922.78	—
		9/21/2015	13.46	923.49	—
		12/7/2015	10.73	926.22	—
MW-5	933.36	3/23/2015	8.19	925.17	—
		6/16/2015	9.25	924.11	—
		9/21/2015	9.90	923.46	—
		12/7/2015	6.13	927.23	—
MW-7	936.89	3/23/2015	12.75	924.14	—
		6/16/2015	14.25	922.64	—
		9/21/2015	15.09	921.80	—
		12/7/2015	10.87	926.02	—
MW-9	937.53	3/23/2015	13.42	924.11	—
		6/16/2015	14.92	922.61	—
		9/21/2015	15.81	921.72	—
		12/7/2015	11.66	925.87	—

Table 5
2015 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
Hydraulic Control and Containment System Monitoring Wells					
EW-1	928.72	3/23/2015	10.24	918.48	—
		6/16/2015	11.03	917.69	—
		9/21/2015	11.19	917.53	—
		12/7/2015	9.41	919.31	—
EW-2A	936.2	3/23/2015	10.42	925.78	—
		6/16/2015	11.54	924.66	—
		9/21/2015	11.76	924.44	—
		12/7/2015	9.15	927.05	—
GW-1	928.24	3/23/2015	10.41	917.83	—
		6/16/2015	11.16	917.08	—
		9/21/2015	11.28	916.96	—
		12/7/2015	9.85	918.39	—
GW-2	930.29	3/23/2015	12.38	917.91	—
		6/16/2015	13.07	917.22	—
		9/21/2015	13.33	916.96	—
		12/7/2015	12.05	918.24	—
GW-3	935.82	3/23/2015	15.85	919.97	—
		6/16/2015	15.91	919.91	—
		9/21/2015	16.04	919.78	—
		12/7/2015	15.70	920.12	—
GW-4	934.68	3/23/2015	10.16	924.52	—
		6/16/2015	11.10	923.58	—
		9/21/2015	11.39	923.29	—
		12/7/2015	9.24	925.44	—
IW-01	933.49	9/21/2015	9.85	923.64	—
PZ-1	935.38	3/23/2015	9.88	925.50	—
		6/16/2015	10.89	924.49	—
		9/21/2015	11.15	924.23	—
		12/7/2015	NM	NM	—

Table 5
2015 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
PZ-2N	934.35	3/23/2015	11.76	922.59	—
		6/16/2015	12.48	921.87	—
		9/21/2015	12.69	921.66	—
		12/7/2015	10.83	923.52	—
PZ-2S	934.94	3/23/2015	8.96	925.98	—
		6/16/2015	10.52	924.42	—
		9/21/2015	11.06	923.88	—
		12/7/2015	7.00	927.94	—
PZ-3N	934.41	3/23/2015	13.89	920.52	—
		6/16/2015	Dry	Dry	—
		9/21/2015	14.01	920.40	—
		12/7/2015	13.92	920.49	—
PZ-3S	934.45	3/23/2015	9.49	924.96	—
		6/16/2015	10.96	923.49	—
		12/7/2015	NM	NM	—
PZ-4N	935.27	3/23/2015	14.55	920.72	—
		6/16/2015	Dry	Dry	—
		9/21/2015	Dry	Dry	—
		12/7/2015	14.64	920.63	—
PZ-4S	935.31	3/23/2015	10.68	924.63	—
		6/16/2015	12.30	923.01	0.01
		9/21/2015	13.26	922.05	Light Trace
		12/7/2015	9.14	926.17	—
PZ-5N	933.15	3/23/2015	15.23	917.92	—
		6/16/2015	Dry	Dry	—
		9/21/2015	Dry	Dry	—
		12/7/2015	14.91	918.24	—
PZ-5S	933.46	3/23/2015	11.02	922.44	1.55
		6/16/2015	12.59	920.87	1.43
		9/21/2015	12.81	920.65	0.62
		12/7/2015	11.18	922.28	Presence Detected[3]

Table 5
2015 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
PZ-6N	931.17	3/23/2015	13.32	917.85	—
		6/16/2015	14.00	917.17	—
		9/21/2015	14.20	916.97	—
		12/7/2015	12.98	918.19	—
PZ-6S	931.41	3/23/2015	7.97	923.44	0.17
		6/16/2015	9.79	921.62	Heavy Trace
		9/21/2015	10.51	920.90	Heavy Trace
		12/7/2015	11.12	920.29	Presence Detected[3]
PZ-7N	930.37	3/23/2015	12.47	917.90	—
		6/16/2015	13.22	917.15	—
		9/21/2015	13.35	917.02	—
		12/7/2015	11.97	918.40	—
PZ-7S	930.4	3/23/2015	8.23	922.17	—
		6/16/2015	10.09	920.31	—
		9/21/2015	10.94	919.46	—
		12/7/2015	6.10	924.30	—
PZ-8	929.48	3/23/2015	9.96	919.52	—
		9/21/2015	11.42	918.06	—
		12/7/2015	8.98	920.50	—
RW-01	932.84	3/23/2015	9.20	923.64	—
		6/16/2015	10.42	922.42	—
		9/21/2015	10.82	922.02	Light Trace
		12/7/2015	8.60	924.24	—
RW-02	933.84	3/23/2015	10.17	923.67	Heavy Trace
		6/16/2015	11.43	922.41	—
		9/21/2015	11.83	922.01	—
		12/7/2015	9.59	924.25	—
RW-03	933.80	3/23/2015	10.19	923.61	—
		6/16/2015	11.42	922.38	0.02
		9/21/2015	11.80	922.00	Light Trace
		12/7/2015	9.54	924.26	—

Table 5
2015 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
RW-04	931.86	3/23/2015	7.82	924.04	0.01
		6/16/2015	9.46	922.40	0.06
		9/21/2015	10.91	920.95	Heavy Trace
		12/7/2015	9.68	922.18	Presence Detected[3]
RW-05	928.53	3/23/2015	9.79	918.74	NE
		6/16/2015	11.02	917.51	0.09
		9/21/2015	11.39	917.14	Heavy Trace
		12/7/2015	10.46	918.07	Heavy Trace
RW-06	928.53	3/23/2015	9.78	918.75	—
		6/16/2015	10.95	917.58	Light Trace
		9/21/2015	11.34	917.19	Light Trace
		12/7/2015	10.39	918.14	Light Trace
RW-07	933.06	3/23/2015	8.39	924.67	0.05
		6/16/2015	9.92	923.14	—
		9/21/2015	11.17	921.89	Light Trace
		12/7/2015	6.90	926.16	Heavy Trace
RW-08	931.85	3/23/2015	7.52	924.33	Light Trace
		6/16/2015	9.28	922.57	0.02
		9/21/2015	11.98	919.87	0.02
		12/7/2015	13.55	918.30	Presence Detected[3]
RW-09	933.96	3/23/2015	8.92	925.04	—
		6/16/2015	9.93	924.03	—
		9/21/2015	10.23	923.73	—
		12/7/2015	NM	NM	—
CV	937.09	3/23/2015	13.48	923.61	—
		6/16/2015	14.67	922.42	—
		9/21/2015	15.2	921.89	—
		12/7/2015	12.83	924.26	—

Table 5
2015 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
EV	934.31	3/23/2015	9.84	924.47	—
		6/16/2015	10.78	923.53	—
		9/21/2015	10.95	923.36	—
		12/7/2015	9.07	925.24	—
FWV	930.76	3/23/2015	9.3	921.46	—
		6/16/2015	11.13	919.63	—
		9/21/2015	11.73	919.03	—
		12/7/2015	9.13	921.63	—
WV	931.84	3/23/2015	13.1	918.74	Light Trace
		6/16/2015	14.28	917.56	Heavy Trace
		9/21/2015	14.74	917.10	Heavy Trace
		12/7/2015	14.11	917.73	Heavy Trace
Levee Zone Monitoring Wells					
5-W-14	926.59	3/23/2015	9.26	917.33	—
		6/16/2015	10.08	916.51	—
		9/21/2015	10.09	916.50	—
		12/7/2015	8.82	917.77	—
5-W-15	925.15	3/23/2015	7.77	917.38	—
		6/16/2015	8.61	916.54	—
		9/21/2015	8.65	916.50	—
		12/7/2015	7.33	917.82	—
5-W-16	925.2	3/23/2015	7.99	917.21	—
		6/16/2015	8.80	916.40	—
		9/21/2015	8.79	916.41	—
		12/7/2015	7.59	917.61	—
5-W-17	924.6	3/23/2015	7.38	917.22	—
		6/16/2015	8.18	916.42	—
		9/21/2015	8.17	916.43	—
		12/7/2015	6.95	917.65	—

Table 5
2015 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
5-W-18	924.64	3/23/2015	7.45	917.19	—
		6/16/2015	8.24	916.40	—
		9/21/2015	8.23	916.41	—
		12/7/2015	7.06	917.58	—
5-W-19	924.35	3/23/2015	7.26	917.09	—
		6/16/2015	8.08	916.27	—
		9/21/2015	8.05	916.30	—
		12/7/2015	6.87	917.48	—
Monitoring Wells Down-Gradient of the Hydraulic Control and Containment System					
1B-W-23	936.25	3/23/2015	16.47	919.78	—
		6/16/2015	17.60	918.65	—
		9/21/2015	16.57	919.68	—
		12/7/2015	16.44	919.81	—
2A-W-40	933.34	3/23/2015	12.39	920.95	—
		6/16/2015	13.37	919.97	—
		9/21/2015	13.40	919.94	—
		12/7/2015	11.33	922.01	—
2A-W-41	935.22	3/23/2015	17.32	917.90	—
		6/16/2015	18.00	917.22	—
		9/21/2015	18.24	916.98	—
		12/7/2015	16.96	918.26	—
2A-W-42	935.37	3/23/2015	13.08	922.29	—
		6/16/2015	13.64	921.73	—
		9/21/2015	13.78	921.59	—
		12/7/2015	12.20	923.17	—
5-W-43	925.82	3/23/2015	7.50	918.32	—
		6/16/2015	8.27	917.55	—
		9/21/2015	NM: Well repaired	NM	—

Table 5
2015 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
Schoolyard Monitoring Wells					
5-W-50	925.49	3/23/2015	7.30	918.19	—
		9/21/2015	NM: Well damaged	NM	—
5-W-51	925.08	3/23/2015	7.52	917.56	Heavy Trace
		9/21/2015	8.98	916.10	0.09
5-W-54	924.58	3/23/2015	7.52	917.06	—
		9/21/2015	8.16	916.42	—
5-W-55	923.92	3/23/2015	6.70	917.22	—
		9/21/2015	7.61	916.31	—
5-W-56	924.76	3/23/2015	6.73	918.03	—
		9/21/2015	7.79	916.97	—
Site-Wide Monitoring Wells					
1A-W-4	929.07	3/23/2015	9.27	919.80	—
		6/16/2015	10.20	918.87	—
		9/21/2015	10.22	918.85	—
		12/7/2015	8.50	920.57	—
1B-W-2	935.81	3/23/2015	13.94	921.87	—
		9/21/2015	14.33	921.48	—
1C-W-1	936.44	3/23/2015	13.70	922.74	—
		6/16/2015	14.35	922.09	—
		9/21/2015	14.65	921.79	—
		12/7/2015	13.01	923.43	—
1C-W-3	933.56	3/23/2015	10.60	922.96	—
		9/21/2015	11.89	921.67	—
1C-W-4	932.74	3/23/2015	10.47	922.27	—
		9/21/2015	11.23	921.51	—
2A-W-8	942.62	3/23/2015	15.00	927.62	—
		6/16/2015	16.39	926.23	—
		9/21/2015	16.50	926.12	—
		12/7/2015	13.25	929.37	—

Table 5
2015 Groundwater Elevations and Product Thicknesses
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet, NAVD88)[1]	LNAPL Thickness (feet)
MW-16	933.32	3/23/2015	13.57	919.75	—
		6/16/2015	14.54	918.78	—
		9/21/2015	14.81	918.51	—
		12/7/2015	12.23	921.09	—
MW-32	926.06	3/23/2015	9.36	916.70	—
		9/21/2015	10.37	915.69	—
MW-38R	922.39	3/23/2015	4.94	917.45	—
		6/16/2015	NM: Well damaged	NM	—
		9/21/2015	NM: Well repaired[4]	NM	—
		12/7/2015	NM: Well repaired[4]	NM	—
MW-47	932.61	3/23/2015	8.79	923.82	—
		6/16/2015	10.49	922.12	—
		9/21/2015	12.00	920.61	—
		12/7/2015	7.01	925.60	—
MW-48	933.9	3/23/2015	10.36	923.54	—
		6/16/2015	12.22	921.68	—
		9/21/2015	13.06	920.84	—
		12/7/2015	8.52	925.38	—
MW-49	933.14	3/23/2015	11.50	921.64	—
		6/16/2015	13.04	920.10	—
		9/21/2015	13.67	919.47	—
		12/7/2015	9.93	923.21	—
Surface Water Monitoring Station					
Skykomish River Bridge	943.09	3/23/2015	24.37	918.72	—
		6/16/2015	25.6	917.49	—
		9/21/2015	25.54	917.55	—
		12/7/2015	23.95	919.14	—

NOTES:

— denotes light nonaqueous-phase liquid (LNAPL) was not present.

NM = not measured

[1] In feet above mean sea level.

[2] In feet below top of well casing.

[3] Instrumentation fouling precluded collection of LNAPL thickness measurements.

[4] Well elevation to be re-surveyed in 2016.

Table 6
2015 Stabilized Groundwater Field Parameter Measurements
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	Sample Identification	Dissolved Oxygen (milligrams per liter)	Oxidation Reduction Potential (millivolts)	pH (Standard pH Units)	Specific Conductivity (mS/cm)	Temperature (degrees Celsius)	Turbidity (NTU)
Air Sparging System Monitoring Wells								
1B-W-3	3/26/2015	1B-W-3-032615	NM	NM	6.50	NM	NM	NM
	6/17/2015	1B-W-3-061715	1.43	88.4	6.07	0.121	13.06	0
	9/24/2015	1B-W-3-092415	1.15	36.6	6.36	0.136	11.31	0
	12/10/2015	1B-W-3-121015	9.42	101	6.26	0.107	9.01	78.4
1C-W-7	3/24/2015	1C-W-7-032415	3.94	203	5.65	0.089	9.27	0
	6/17/2015	1C-W-7-061715	1.94	135.8	5.82	0.094	11.2	0
	9/23/2015	1C-W-7-092315	0.69	64.4	6.05	0.129	14.05	0
	12/9/2015	1C-W-7-120915	6.46	85.1	6.20	0.11	8.37	IE
1C-W-8	3/26/2015	1C-W-8-032615	5.73	181	5.69	0.081	9.98	0
	6/17/2015	1C-W-8-061715	4.14	120.7	5.78	0.106	10.05	0
	9/23/2015	1C-W-8-092315	1.86	138	5.83	0.111	14.71	0
	12/9/2015	1C-W-8-120915	9.51	92.3	6.13	0.086	8.51	IE
Former Maloney Creek Zone - East Wetland and Surrounding Area Monitoring Wells								
2A-W-10	3/25/2015	2A-W-10-032515	2.39	146	5.49	0.098	7.22	22.6
	6/18/2015	2A-W-10-061815	0.53	126.5	5.71	0.116	11.22	2.1
	9/23/2015	2A-W-10-092315	0.86	151.2	5.51	0.142	13.14	0
	12/10/2015	2A-W-10-121015	7.39	114.8	6.07	0.071	4.34	0
2A-W-9	3/25/2015	2A-W-9-032515	1.7	7.4	5.99	0.118	7.13	1.1
	6/18/2015	2A-W-9-061815	NM	NM	NM	NM	NM	NM
	9/24/2015	2A-W-9-092415	0.83	129.4	6.00	0.292	12	0
	12/10/2015	2A-W-9-121015	1.41	63.7	6.27	0.084	7.76	0.2
2B-W-4	3/25/2015	2B-W-4-032515	5.5	223	5.45	0.064	7.12	9.6
	6/18/2015	2B-W-4-061815	3.81	122.5	5.78	0.066	9.89	0
	9/24/2015	2B-W-4-09242015	2.56	181	5.70	0.105	12.61	1.7
	12/10/2015	2B-W-4-121015	8.01	87	6.45	0.09	7.57	22.5

Table 6
2015 Stabilized Groundwater Field Parameter Measurements
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	Sample Identification	Dissolved Oxygen (milligrams per liter)	Oxidation Reduction Potential (millivolts)	pH (Standard pH Units)	Specific Conductivity (mS/cm)	Temperature (degrees Celsius)	Turbidity (NTU)
MW-3	3/25/2015	MW-3-032515	7.1	157.1	5.59	0.064	6.78	19.3
	6/18/2015	MW-3-061815	0.17	111.4	5.80	0.064	10.32	6.4
	9/24/2015	MW-3-09242015	0.16	38.6	6.20	0.097	10.62	13.6
	12/10/2015	MW-3-121015	6.66	111.3	6.10	0.053	7.22	74.5
MW-4	3/25/2015	MW-4-032515	4.68	204	5.20	0.075	6.94	4.7
	6/18/2015	MW-4-061815	0.32	92.4	6.81	0.082	11.48	0
	9/23/2015	MW-4-09232015	0.82	111.6	5.58	0.129	12.51	0
	12/10/2015	MW-4-121015	7.34	98.9	6.24	0.039	5.76	0.9
Hydraulic Control and Containment System Monitoring Wells								
EW-1	3/24/2015	EW-1-032415	3.14	118	5.34	0.096	8.98	0
	6/17/2015	EW-1-061715	1.34	110.2	5.79	0.081	11.15	0
	9/24/2015	EW-1-092415	1.62	99	6.02	0.091	11.72	0
	12/9/2015	EW-1-120915	5.84	81	NM	0.102	7.35	1.2
EW-2A	3/24/2015	EW-2A-032415	5.78	149.3	5.66	0.069	8.05	0
	6/17/2015	EW-2A-061715	6.59	126	6.73	0.07	9.1	0
	9/23/2015	EW-2A-092315	3.77	70.9	6.05	0.076	10.81	0
	12/9/2015	EW-2A-120915	NM	NM	NM	NM	NM	NM
GW-1	3/25/2015	GW-1-032515	1.57	78	6.03	0.151	8.34	2
	6/17/2015	GW-1-061715	0.96	87.1	6.26	0.122	10.49	0
	9/24/2015	GW-1-092415	0.82	204.6	5.82	0.147	12	0
	12/9/2015	GW-1-120915	7.1	73.4	6.34	0.2	8.72	0
GW-2	3/25/2015	GW-2-032515	3.12	29	5.92	0.123	7.98	8.5
	6/17/2015	GW-2-061715	0.48	75.4	6.10	0.133	11.65	0
	9/24/2015	GW-2-092415	0.89	95.7	5.59	0.148	12.6	0
	12/9/2015	GW-2-120915	7.23	74.5	6.50	0.139	8.31	0
GW-3	3/24/2015	GW-3-032415	3.71	130.8	5.94	0.114	8.99	2.5
	6/17/2015	GW-3-061715	7.1	189.5	5.88	0.098	11.01	1.8
	9/24/2015	GW-3-092415	2.46	51.5	6.2	0.128	11.98	0.7
	12/9/2015	GW-3-120915	5.29	79.6	6.37	0.128	8.46	6.4
GW-4	3/24/2015	GW-4-032415	5.43	191	6.13	0.113	12.08	0
	6/17/2015	GW-4-061715	2.71	165.5	5.95	0.076	9.89	2.7
	9/23/2015	GW-4-092315	1.73	73.4	6.07	0.099	11.14	0
	12/9/2015	GW-4-120915	9.58	327	4.19	0.134	8.03	74.7

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2015 Stabilized Groundwater Field Parameter Measurements
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	Sample Identification	Dissolved Oxygen (milligrams per liter)	Oxidation Reduction Potential (millivolts)	pH (Standard pH Units)	Specific Conductivity (mS/cm)	Temperature (degrees Celsius)	Turbidity (NTU)
Levee Zone Monitoring Wells								
5-W-14	3/24/2015	5-W-14-032615	5.75	207	5.53	0.094	10.35	0
	6/18/2015	5-W-14-061815	5.43	99.6	6.24	0.088	9.84	0
	9/23/2015	5-W-14-092315	6.55	276.9	5.34	0.092	8.74	0
	12/8/2015	5-W-14-120815	3.9	242	6.92	0.066	8.96	0
5-W-15	3/26/2015	5-W-15-032615	NM	NM	6.50	NM	NM	NM
	6/18/2015	5-W-15-061815	0.3	-15.9	7.85	0.199	11.41	5.6
	9/23/2015	5-W-15-092315	0.92	-36.1	6.81	0.116	10.8	4.4
	12/9/2015	5-W-15-120915	11.17	73.4	6.85	0.244	5.84	0
5-W-16	3/26/2015	5-W-16-032615	7.12	175	5.98	0.076	11.02	0
	6/18/2015	5-W-16-061815	6.16	101.7	6.48	0.083	14.3	0
	9/22/2015	5-W-16-092215	6.58	234.2	6.46	0.086	12.04	0
	12/8/2015	5-W-16-120815	5.29	239	6.88	0.084	7.06	0
5-W-17	3/26/2015	5-W-17-032615	NM	NM	6.50	NM	NM	NM
	6/18/2015	5-W-17-061815	5.54	163.1	6.31	0.09	10.96	1.5
	9/23/2015	5-W-17-092315	6.43	248.7	6.27	0.093	8.03	0
	12/8/2015	5-W-17-120815	4.78	289	5.97	0.075	8.51	0
5-W-18	3/25/2015	5-W-18-032515	2.17	91	6.08	0.162	8.84	4.1
	6/18/2015	5-W-18-061815	2.53	93.8	6.25	0.134	11.97	0
	9/22/2015	5-W-18-092215	1.72	150.2	6.35	0.186	10.83	0
	12/9/2015	5-W-18-120915	8.19	86.5	6.6	0.102	5.88	0
5-W-19	3/25/2015	5-W-19-032519	5.38	132	6.00	0.101	7.71	0.3
	6/18/2015	5-W-19-061815	6.04	164.3	6.41	0.083	10.76	1.7
	9/22/2015	5-W-19-092215	6.44	228.5	6.22	0.087	9.56	0
	12/8/2015	5-W-19-120815	3.84	233	6.51	0.069	8.1	0
Monitoring Wells Down-Gradient of the Hydraulic Control and Containment System								
1B-W-23	3/24/2015	1B-W-23-032415	11.3	214	6.02	0.067	9.66	0
	6/17/2015	1B-W-23-061715	5.43	91.1	6.79	0.108	14.46	36.2
	9/24/2015	1B-W-23-092415	5.73	146	6.12	0.131	17.55	78.8
	12/9/2015	1B-W-23-120915	9.49	81.1	6.66	0.094	7.26	IE
2A-W-40	3/25/2015	2A-W-40-032515	7.16	114	5.69	0.074	8.15	2.9
	6/17/2015	2A-W-40-061715	6.78	160.2	6.35	0.062	10.77	1.6
	9/24/2015	2A-W-40-092415	6.16	61.7	6.37	0.065	13.41	0
	12/9/2015	2A-W-40-120915	6.79	78	6.48	0.072	8.78	0
2A-W-41	3/25/2015	2A-W-41-032515	6.01	58	6.13	0.159	8.66	31.7
	6/17/2015	2A-W-41-061715	5.22	76.6	7.25	0.129	11.02	0
	9/24/2015	2A-W-41-092415	1.77	61	6.06	0.148	18.86	14.5
	12/10/2015	2A-W-41-121015	8.63	98.5	6.39	0.119	8.63	IE

Table 6
2015 Stabilized Groundwater Field Parameter Measurements
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	Sample Identification	Dissolved Oxygen (milligrams per liter)	Oxidation Reduction Potential (millivolts)	pH (Standard pH Units)	Specific Conductivity (mS/cm)	Temperature (degrees Celsius)	Turbidity (NTU)
2A-W-42	3/24/2015	2A-W-42-032415	1.52	121.2	5.90	0.148	8.35	0
	6/17/2015	2A-W-42-061715	1.96	147.1	5.96	0.147	11.37	1.4
	9/23/2015	2A-W-42-092315	1.27	67.7	5.97	0.16	12.81	0
	12/9/2015	2A-W-42-120915	5.07	73	6.35	0.138	8.03	IE
5-W-43	3/24/2015	5-W-43-032415	3.64	136	5.51	0.096	10.29	0
	6/17/2015	5-W-43-061715	3.17	173.5	6.01	0.082	10.27	1.9
	9/24/2015	5-W-43-092415	1.11	249.1	5.59	0.114	10.63	0
	12/10/2015	5-W-43-121015	2.51	95.3	6.22	0.114	9.54	IE
Schoolyard Monitoring Wells								
5-W-50	3/25/2015	5-W-50-032515	2.95	103	4.96	0.045	8.64	4.1
5-W-54	3/25/2015	5-W-54-032515	4.36	118	5.96	0.1	9.36	3.9
	9/23/2015	5-W-54-092315	0.83	231.8	5.93	0.459	14.53	0
5-W-55	3/25/2015	5-W-55-032515	6.97	131	6.08	0.055	10.96	10.6
	9/23/2015	5-W-55-092315	0.46	57.8	6.23	0.401	15.81	2.6
5-W-56	3/25/2015	5-W-56-032515	2.5	55	6.00	0.222	11.55	16.9
	9/23/2015	5-W-56-092315	0.91	-52	6.54	0.901	17.56	175
Site-Wide Monitoring Wells								
1A-W-4	3/25/2015	1A-W-4-032515	7.59	159	5.49	0.09	8.36	4.6
	9/24/2015	1A-W-4-092415	7.12	55.7	6.40	0.083	11.01	0
1B-W-2	3/26/2015	1B-W-2-032615	NM	NM	NM	NM	NM	NM
	9/24/2015	1B-W-2-092415	1.55	160	5.68	0.335	13.72	0
1C-W-1	3/26/2015	1C-W-1-032615	4.98	130	5.47	0.09	11.58	11.8
	6/17/2015	1C-W-1-061715	5.13	131.8	5.67	0.074	12.62	0
	9/23/2015	1C-W-1-092315	2.51	199	5.82	0.088	15.45	12.6
	12/9/2015	1C-W-1-120915	7.38	91.5	6.14	0.075	9.01	IE
1C-W-3	3/26/2015	1C-W-3-032615	6.63	159	5.88	0.054	10.81	0
	9/23/2015	1C-W-3-092315	2.3	219	6.11	0.11	13.22	111
1C-W-4	3/26/2015	1C-W-4-032615	4.41	171	5.92	0.082	9.83	0
	9/23/2015	1C-W-4-092315	2.41	225	5.73	0.085	11.72	2
MW-16	3/25/2015	MW-16-032515	8.16	155	5.24	0.066	8.26	0
	9/24/2015	MW-16-092415	2.73	183.9	5.96	0.098	10.95	0
MW-38R	3/24/2015	MW-38R-032415	0.84	57	5.26	0.098	9.31	0.3
	9/24/2015	MW-38R-092415	0.86	204.1	5.92	0.96	8.93	0

NOTES:
IE = instrument error, no value reported
mS/cm = milliSiemens per centimeter
NM = not measured
NTU = nephelometric turbidity units

Table 7
2015 Calculated Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	DRO (micrograms per liter)[1]			ORO (micrograms per liter)[1]			Calculated NWTPH-Dx[2] (µg/l)
		Result	MDL	MRL	Result	MDL	MRL	
Air Sparge Area Monitoring Wells								
1B-W-3	3/26/2015	27	14	24	< 39	39	39	46.5
	6/17/2015	14 J	14	24	34 J	9.3	47	48
	9/24/2015	37 J	14	24	31 J	9.3	47	68
	12/10/2015	22 J	14	24	29 J	9.3	47	51
1C-W-7	3/24/2015	53	14	24	47	9.3	47	100
	6/17/2015	43 J	14	24	53 J	9.3	48	96
	9/23/2015	140 J	14	24	53 J	9.3	47	193
	12/9/2015	88	14	24	< 47	47	47	111.5
1C-W-8	3/26/2015	130	14	24	110	9.4	48	240
	6/17/2015	17 J	14	24	47 J	9.3	47	64
	9/23/2015	57 J	14	24	43 J	9.3	47	100
	12/9/2015	210	14	24	70 J	9.3	47	280
Former Maloney Creek Zone - East Wetland and Surrounding Area Monitoring Wells								
2A-W-10	3/25/2015	190	14	24	330	9.3	47	**520**
	6/18/2015	110	14	24	140	9.3	47	250
	9/23/2015	150 J	14	24	260 J	9.3	47	410
	12/10/2015	110	14	24	220	9.3	47	330
2A-W-9	3/25/2015	820	14	24	330	9.3	47	**1,150**
	6/18/2015	520	14	24	150	9.3	47	**670**
	9/24/2015	610 J	14	24	320 J	9.3	47	**930**
	12/10/2015	460	14	24	120	9.3	47	**580**
2B-W-4	3/25/2015	20 J	14	24	< 52	52	52	46
	6/18/2015	17 J	14	24	< 9.3 J	9.3	47	21.65
	9/24/2015	15 J	14	24	11 J	9.3	47	26
	12/10/2015	20 J	14	24	< 32 J	32	32	36

Table 7
2015 Calculated Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	DRO (micrograms per liter)[1]			ORO (micrograms per liter)[1]			Calculated NWTPH-Dx[2] (µg/l)
		Result	MDL	MRL	Result	MDL	MRL	
MW-3	3/25/2015	34	14	24	75 J	9.3	47	109
	6/18/2015	27 J	14	24	32 J	9.3	47	59
	9/24/2015	34 J	14	24	46 J	9.3	47	80
	12/10/2015	45	14	24	< 42 J	42	42	66
MW-4	3/25/2015	120	14	24	220	9.3	47	340
	6/18/2015	53	14	24	65	9.3	47	118
	9/23/2015	250 J	14	24	170 J	9.3	48	420
	12/10/2015	53	14	24	110 J	9.3	47	163
Hydraulic Control and Containment System Monitoring Wells								
EW-1	3/24/2015	30	14	24	< 59	59	59	59.5
	6/17/2015	23 J	14	24	68 J	9.3	47	91
	9/24/2015	49 J	14	24	38 J	9.3	47	87
	12/9/2015	41	14	24	65	9.3	47	106
EW-2A	3/24/2015	21 J	14	24	< 43	43	43	42.5
	6/17/2015	22 J	14	24	< 9.3 J	9.3	47	26.65
	9/23/2015	17 J	14	24	27 J	9.3	47	44
	12/9/2015	40	14	24	47 J	9.3	48	87
GW-1	3/25/2015	47	14	24	90 J	9.4	48	137
	6/17/2015	45 J	14	24	24 J	9.3	47	69
	9/24/2015	29 J	14	24	28 J	9.3	47	57
	12/9/2015	31	14	24	< 41 J	41	41	51.5
GW-2	3/25/2015	160	14	24	140	9.4	48	300
	6/17/2015	39	14	24	29 J	9.3	47	68
	9/24/2015	210 J	14	24	58 J	9.3	47	268
	12/9/2015	82	14	24	61 J	9.3	48	143

Table 7
2015 Calculated Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	DRO (micrograms per liter)[1]			ORO (micrograms per liter)[1]			Calculated NWTPH-Dx[2] (µg/l)
		Result	MDL	MRL	Result	MDL	MRL	
GW-3	3/24/2015	120	14	24	89 J	9.3	47	209
	6/17/2015	330 J	14	24	230 J	9.3	48	**560**
	9/24/2015	180 J	14	24	93 J	9.3	47	273
	12/9/2015	88	14	24	68	9.3	47	156
GW-4	3/24/2015	37	14	24	80 J	9.3	47	117
	6/17/2015	20 J	14	24	40 J	9.3	47	60
	9/23/2015	44 J	14	24	45 J	9.3	47	89
	12/9/2015	77	14	24	51	9.3	47	128
S1-AD	3/24/2015	< 14	14	24	< 26	26	26	< 20
	9/22/2015	17 J	15	25	24 J	9.9	50	41
	12/8/2015	< 14	14	24	9.7 J	9.3	47	16.7
S1-AU	3/24/2015	16 J	14	24	< 28	28	28	30
	9/22/2015	19 J	15	26	13 J	10	52	32
	12/8/2015	< 14	14	24	< 9.3	9.3	47	< 11.65
S1-BD	3/24/2015	14 J	14	24	< 29	29	29	28.5
	9/22/2015	16 J	15	26	< 10 J	10	52	21
	12/8/2015	23 J	14	24	28 J	9.3	47	51
S1-BU	3/24/2015	20 J	14	24	< 39	39	39	39.5
	9/22/2015	17 J	15	26	17 J	10	52	34
	12/8/2015	< 14	14	24	20 J	9.3	47	27
S2-AD	3/24/2015	14 J	14	24	< 24	24	24	26
	9/22/2015	29 J	15	26	18 J	10	51	47
	12/8/2015	< 14	14	24	9.9 J	9.3	47	16.9
S2-AU	3/24/2015	14 J	14	24	< 23	23	23	25.5
	9/22/2015	20 J	15	25	17 J	10	51	37
	12/8/2015	< 14	14	24	< 9.3	9.3	47	< 11.65

Table 7
2015 Calculated Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	DRO (micrograms per liter)[1]			ORO (micrograms per liter)[1]			Calculated NWTPH-Dx[2] (µg/l)
		Result	MDL	MRL	Result	MDL	MRL	
S2-BD	3/24/2015	< 14	14	24	< 17	17	17	< 15.5
	9/22/2015	25 J	15	25	19 J	10	51	44
	12/8/2015	< 14	14	24	10 J	9.3	47	17
S2-BU	3/24/2015	130	14	24	90 J	9.4	48	220
	9/22/2015	38 J	15	25	21 J	10	51	59
	12/8/2015	< 14	14	24	< 9.3	9.3	47	< 11.65
S3-AD	3/24/2015	22 J	14	24	< 24	24	24	34
	9/22/2015	< 15 J	15	25	18 J	10	51	25.5
	12/8/2015	< 14	14	24	< 9.3	9.3	47	< 11.65
S3-AU	3/24/2015	110	14	24	51	9.3	47	161
	9/22/2015	17 J	15	26	22 J	10	51	39
	12/8/2015	33	14	24	17 J	9.3	48	50
S3-BD	3/24/2015	20 J	14	24	20 J	9.3	47	40
	9/22/2015	29 J	15	26	22 J	10	52	51
	12/8/2015	< 14	14	24	< 9.3	9.3	47	< 11.65
S3-BU	3/24/2015	32	14	24	17 J	9.3	48	49
	9/22/2015	25 J	15	26	24 J	10	53	49
	12/8/2015	19 J	14	24	48	9.3	47	67
S3-CD	3/24/2015	16 J	14	24	12 J	9.3	48	28
	9/22/2015	17 J	15	26	< 10 J	10	51	22
	12/8/2015	< 14	14	24	< 9.3	9.3	47	< 11.65
S3-CU	3/24/2015	14 J	14	24	12 J	9.4	48	26
	9/22/2015	40 J	15	26	28 J	10	51	68
	12/8/2015	< 14	14	24	< 9.3	9.3	47	< 11.65

Table 7
2015 Calculated Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	DRO (micrograms per liter)[1]			ORO (micrograms per liter)[1]			Calculated NWTPH-Dx[2] (µg/l)
		Result	MDL	MRL	Result	MDL	MRL	
S4-AD	3/24/2015	16 J	14	24	13 J	9.4	48	29
	9/22/2015	21 J	15	25	19 J	10	51	40
	12/8/2015	< 14	14	24	< 9.3	9.3	47	< 11.65
S4-AU	3/24/2015	18 J	14	24	30 J	9.4	48	48
	9/22/2015	31 J	15	26	21 J	10	51	52
	12/8/2015	15 J	14	24	37 J	9.3	48	52
S4-BD	3/24/2015	18 J	14	24	16 J	9.3	48	34
	9/22/2015	31 J	15	26	21 J	10	51	52
	12/8/2015	< 14	14	24	17 J	9.3	47	24
S4-BU	3/24/2015	18 J	14	24	22 J	9.3	47	40
	9/22/2015	24 J	15	26	22 J	10	51	46
	12/8/2015	24	14	24	81	9.3	48	105
S4-CD	3/24/2015	19 J	14	24	22 J	9.3	47	41
	9/22/2015	22 J	15	26	25 J	10	51	47
	12/8/2015	< 14	14	24	16 J	9.3	47	23
S4-CU	3/24/2015	24	14	24	25 J	9.3	47	49
	9/22/2015	< 15 J	15	26	< 10 J	10	51	< 12.5
	12/8/2015	71	14	24	23 J	9.3	47	94
Levee Zone Monitoring Wells								
5-W-14	3/24/2015	< 14	14	24	< 9.3	9.3	47	< 11.65
	6/18/2015	15 J	14	24	< 9.3 J	9.3	47	19.65
	9/23/2015	14 J	14	24	16 J	9.3	47	30
	12/8/2015	< 14	14	24	< 9.3	9.3	47	< 11.65

Table 7
2015 Calculated Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	DRO (micrograms per liter)[1]			ORO (micrograms per liter)[1]			Calculated NWTPH-Dx[2] (µg/l)
		Result	MDL	MRL	Result	MDL	MRL	
5-W-15	3/26/2015	160	14	24	220	9.3	47	**380**
	6/18/2015	130	14	24	100	9.3	47	**230**
	9/23/2015	26 J	14	24	< 9.3 J	9.3	47	30.65
	12/9/2015	88	14	24	69	9.3	47	157
5-W-16	3/26/2015	18 J	14	24	16 J	9.3	47	34
	6/18/2015	35 J	14	24	11 J	9.3	47	46
	9/22/2015	26 J	15	25	27 J	9.9	50	53
	12/8/2015	15 J	14	24	12 J	9.3	48	27
5-W-17	3/26/2015	< 14	14	24	< 9.3	9.3	47	< 11.65
	6/18/2015	18 J	14	24	< 9.3 J	9.3	47	22.65
	9/23/2015	19 J	15	25	18 J	9.8	50	37
	12/8/2015	32	14	24	30 J	9.3	47	62
5-W-18	3/25/2015	63	14	24	88	9.3	47	151
	6/18/2015	430 Z	14	24	1,400 Z	9.3	47	**1,830**
	9/22/2015	83 J	15	25	64 J	9.9	51	147
	12/9/2015	32	14	24	29 J	9.3	47	61
5-W-19	3/25/2015	18 J	14	24	12 J	9.3	47	30
	6/18/2015	< 14	14	24	< 9.3	9.3	47	< 11.65
	9/22/2015	24 J	15	25	28 J	9.9	50	52
	12/8/2015	< 14	14	24	< 9.3	9.3	48	< 11.65
Monitoring Wells Down-Gradient of the Hydraulic Control and Containment System								
1B-W-23	3/24/2015	25	14	24	28 J	9.3	47	53
	6/17/2015	30	14	24	32 J	9.5	49	62
	9/24/2015	60 J	14	24	86 J	9.3	48	146
	12/9/2015	17 J	14	24	< 17 J	17	17	25.5

Table 7
2015 Calculated Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	DRO (micrograms per liter)[1]			ORO (micrograms per liter)[1]			Calculated NWTPH-Dx[2] (µg/l)
		Result	MDL	MRL	Result	MDL	MRL	
2A-W-40	3/25/2015	19 J	14	24	23 J	9.4	48	42
	6/17/2015	< 14	14	24	< 9.3	9.3	47	< 11.65
	9/24/2015	14 J	14	24	< 9.3 J	9.3	48	18.65
	12/9/2015	18 J	14	24	< 17 J	17	17	26.5
2A-W-41	3/25/2015	160	14	24	87	9.4	48	247
	6/17/2015	170	14	24	81	9.3	47	251
	9/24/2015	230 J	14	24	140 J	9.3	48	370
	12/10/2015	120	14	24	130	9.3	47	250
2A-W-42	3/24/2015	110	14	24	85	9.3	47	195
	6/17/2015	150 J	14	24	140 J	9.3	47	290
	9/23/2015	100 J	14	24	75 J	9.3	48	175
	12/9/2015	130	14	24	71 J	9.3	47	201
5-W-43	3/24/2015	30	14	24	53	9.5	48	83
	6/17/2015	36 J	14	24	16 J	9.3	47	52
	9/24/2015	31 J	14	24	< 33	33	33	47.5
	12/10/2015	26	14	24	33 J	9.3	47	59
Schoolyard Monitoring Wells								
5-W-50	3/25/2015	640	14	24	660	9.3	47	**1,300**
5-W-54	3/25/2015	25	14	24	53	9.4	48	78
	9/23/2015	370 J	14	24	420 J	9.3	47	**790**
5-W-55	3/25/2015	30	14	24	65	9.4	48	95
	9/23/2015	100 J	14	24	130 J	9.3	47	230
5-W-56	3/25/2015	240	14	24	510	9.4	48	**750**
	9/23/2015	2,200 J	14	24	2,200 J	9.4	48	**4,400**

Table 7
2015 Calculated Total Petroleum Hydrocarbon Concentrations in Groundwater
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043

Sample Location	Sample Date	DRO (micrograms per liter)[1]			ORO (micrograms per liter)[1]			Calculated NWTPH-Dx[2] (µg/l)
		Result	MDL	MRL	Result	MDL	MRL	
Site-Wide Monitoring Wells								
1A-W-4	3/25/2015	16 J	14	24	18 J	9.3	47	34
	9/24/2015	14 J	14	24	< 9.3 J	9.3	47	18.65
1B-W-2	3/26/2015	30	14	24	< 82	82	82	71
	9/24/2015	78 J	14	24	90 J	9.3	48	168
1C-W-1	3/26/2015	76	14	24	95	9.4	48	171
	6/17/2015	< 14 J	14	24	28 J	9.3	48	35
	9/23/2015	34 J	14	24	25 J	9.3	47	59
	12/9/2015	21 J	14	24	< 53	53	53	47.5
1C-W-3	3/26/2015	< 14	14	24	< 20	20	20	< 17
	9/23/2015	15 J	14	24	20 J	9.3	48	35
1C-W-4	3/26/2015	130	14	24	< 100	100	100	180
	9/23/2015	38 J	14	24	31 J	9.3	48	69
MW-16	3/25/2015	19 J	14	24	33 J	9.3	47	52
	9/24/2015	15 J	14	24	< 9.3 J	9.3	48	19.65
MW-38R	3/24/2015	55	14	24	63	9.4	48	118
	9/24/2015	35 J	14	24	20 J	9.3	47	55

NOTES:

Bold denotes concentration exceeds 208 ug/l NWTPH-Dx cleanup level (Levee Zone) or exceeds 477 µg/l TPH remediation level (all zones except Levee Zone).

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

[1]Analyzed by Northwest Method NWTPH-Dx

[2]The total NWTPH-Dx calculation uses one-half the MDL for non-detectable concentrations to derive the sum of the DRO and ORO results obtained using the NWTPH-Dx analytical method. If either the DRO or the ORO concentration was reported as a detect, then the calculated total NWTPH-Dx concentration is indicated as a detect. If both DRO and ORO concentrations were reported as non-detects, then the calculated total NWTPH-Dx concentration is indicated as a non-detect. Note that in some instances, data validation resulted in additional data qualification and/or updates to laboratory data. If, for example, data validation caused an update to a non-detect result value because of lab blank contamination and the data validator concluded that the result should be non-detect instead of detect, the laboratory-given method detection limit and reporting limit were updated to match the validated non-detect result value.

DRO = total petroleum hydrocarbons as diesel-range organics

J = The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

< J = The material was analyzed for but not detected. The associated value is an estimate and may be inaccurate or imprecise.

MDL = laboratory-specified method detection limit

µg/l = micrograms per liter

MRL = laboratory-specified method reporting limit

ORO = total petroleum hydrocarbons as oil-range organics

Z = The chromatographic response does not resemble a typical fuel pattern.

APPENDIX A
LABORATORY ANALYTICAL REPORTS
(PROVIDED ON COMPACT DISC IN PRINTED REPORT)

2015 SITE-WIDE
GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 580-48478-1
Client Project/Site: BNSF Skykomish Ground Water

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

Attn: Gerald Portele

Authorized for release by:
4/13/2015 2:55:09 PM
Bernard Kirkland, Manager of Project Management
(912)354-7858 e.3238
bernard.kirkland@testamericainc.com

Designee for

Kristine Allen, Manager of Project Management
(253)248-4970
kristine.allen@testamericainc.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.

Table of Contents

Job ID: 580-48478-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-48478-1

Comments
No additional comments.

Receipt
The samples were received on 3/27/2015 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 13 coolers at receipt time were 0.4º C, 0.6º C, 0.6º C, 0.6º C, 0.7º C, 0.7º C, 0.9º C, 0.9º C, 1.0º C, 1.0º C, 1.0º C, 1.3º C and 5.9º C.

Insufficient volume was available for MS/MSD.

GC Semi VOA
Method(s) NWTPH-Dx: In analysis batch 185778, the following samples from preparation batch 185725 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: IC-W-1-032615 (580-48478-1), IC-W-7-032415 (580-48478-2), IC-W-8-032615 (580-48478-3), IC-W-8-0-032615 (580-48478-4), IB-W-23-032415 (580-48478-5), 2A-W-41-032515 (580-48478-7), 2A-W-42-032415 (580-48478-8), 5-W-43-032415 (580-48478-9), 5-W-43-0-032415 (580-48478-10), 2A-W-10-032515 (580-48478-11), 2A-W-9-032515 (580-48478-12) and 2A-W-90-032515 (580-48478-13).

Method(s) NWTPH-Dx: In analysis batch 580-186201, the following samples from preparation batch 186174 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: S3-AU-032415 (580-48478-34) and S3-BU-032415 (580-48478-36).

Method(s) NWTPH-Dx: In analysis batch 580-186228, the following samples from preparation batch 186030 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: MW-3-032515 (580-48478-15), MW-4-032515 (580-48478-16), EW-1-032415 (580-48478-17), GW-1-032515 (580-48478-19), GW-2-032515 (580-48478-20), GW-2-0-032515 (580-48478-21), GW-3-032415 (580-48478-22), GW-30-032415 (580-48478-23), GW-4-032415 (580-48478-24) and S2-BU-032415 (580-48478-32).

Method(s) NWTPH-Dx: In analysis batch 580-186528, the following samples from preparation batch 580-186384 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: 1B-W-2-032615 (580-48478-57) and 1B-W-3-032615 (580-48478-58).

Method(s) NWTPH-Dx: The method blank for batch preparation batch 580-186030 and analytical batch 580-186228 contained Motor Oil (>C24-C36) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and/or re-analysis of samples was not performed. The following samples were affected: 2B-W-4-032515 (580-48478-14), MW-3-032515 (580-48478-15), MW-4-032515 (580-48478-16), EW-1-032415 (580-48478-17), EW-2A-032415 (580-48478-18), GW-1-032515 (580-48478-19), GW-2-032515 (580-48478-20), GW-2-0-032515 (580-48478-21), GW-3-032415 (580-48478-22), GW-30-032415 (580-48478-23), GW-4-032415 (580-48478-24), S1-AD-032415 (580-48478-25), S1-AU-032415 (580-48478-26), S1-BD-032415 (580-48478-27), S1-BU-032415 (580-48478-28), S2-AD-032415 (580-48478-29), S2-AU-032415 (580-48478-30), S2-BD-032415 (580-48478-31), S2-BU-032415 (580-48478-32), S3-AD-032415 (580-48478-33) and (MB 580-186030/1-A).

Method(s) NWTPH-Dx: The method blank for 580-186384 contained Motor Oil (>C24-C36) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

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

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
Y	The chromatographic response resembles a typical fuel pattern.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: IC-W-1-032615
Date Collected: 03/26/15 11:00
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-1
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)	0.076	Y	0.024	0.014	mg/L		03/31/15 18:08	04/01/15 15:29	1
Motor Oil (>C24-C36)	0.095	Y	0.048	0.0094	mg/L		03/31/15 18:08	04/01/15 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*50 - 150*	*03/31/15 18:08*	*04/01/15 15:29*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: IC-W-7-032415
Date Collected: 03/24/15 15:32
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-2
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)	0.053	Y	0.024	0.014	mg/L		03/31/15 18:08	04/01/15 15:47	1
Motor Oil (>C24-C36)	0.047	Y	0.047	0.0093	mg/L		03/31/15 18:08	04/01/15 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*50 - 150*	*03/31/15 18:08*	*04/01/15 15:47*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: IC-W-8-032615
Date Collected: 03/26/15 09:50
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-3
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)	0.13	Y	0.024	0.014	mg/L		03/31/15 18:08	04/01/15 16:05	1
Motor Oil (>C24-C36)	0.11	Y	0.048	0.0094	mg/L		03/31/15 18:08	04/01/15 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*50 - 150*	*03/31/15 18:08*	*04/01/15 16:05*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: IC-W-8-0-032615
Date Collected: 03/26/15 10:00
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-4
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)	0.12	Y	0.024	0.014	mg/L		03/31/15 18:08	04/01/15 16:23	1
Motor Oil (>C24-C36)	0.081	Y	0.048	0.0094	mg/L		03/31/15 18:08	04/01/15 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*50 - 150*	*03/31/15 18:08*	*04/01/15 16:23*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: IB-W-23-032415
Date Collected: 03/24/15 16:48
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-5
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)	0.025	Y	0.024	0.014	mg/L		03/31/15 18:08	04/01/15 16:41	1
Motor Oil (>C24-C36)	0.028	J	0.047	0.0093	mg/L		03/31/15 18:08	04/01/15 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*50 - 150*	*03/31/15 18:08*	*04/01/15 16:41*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 2A-W-40-032515
Date Collected: 03/25/15 11:45
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-6
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)	0.019	J	0.024	0.014	mg/L		03/31/15 18:08	04/01/15 16:59	1
Motor Oil (>C24-C36)	0.023	J	0.048	0.0094	mg/L		03/31/15 18:08	04/01/15 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*50 - 150*	*03/31/15 18:08*	*04/01/15 16:59*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 2A-W-41-032515
Date Collected: 03/25/15 13:55
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-7
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)	0.16	Y	0.024	0.014	mg/L		03/31/15 18:08	04/01/15 17:18	1
Motor Oil (>C24-C36)	0.087	Y	0.048	0.0094	mg/L		03/31/15 18:08	04/01/15 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*50 - 150*	*03/31/15 18:08*	*04/01/15 17:18*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 2A-W-42-032415
Date Collected: 03/24/15 15:40
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-8
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)	0.11	Y	0.024	0.014	mg/L		03/31/15 18:08	04/01/15 17:54	1
Motor Oil (>C24-C36)	0.085	Y	0.047	0.0093	mg/L		03/31/15 18:08	04/01/15 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*50 - 150*	*03/31/15 18:08*	*04/01/15 17:54*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 5-W-43-032415
Date Collected: 03/24/15 16:30
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-9
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)	0.030	Y	0.024	0.014	mg/L		03/31/15 18:08	04/01/15 18:12	1
Motor Oil (>C24-C36)	0.053	Y	0.048	0.0095	mg/L		03/31/15 18:08	04/01/15 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*50 - 150*	*03/31/15 18:08*	*04/01/15 18:12*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 5-W-43-0-032415
Date Collected: 03/24/15 16:45
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-10
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)	0.026	Y	0.024	0.014	mg/L		03/31/15 18:08	04/01/15 18:30	1
Motor Oil (>C24-C36)	0.040	J	0.048	0.0093	mg/L		03/31/15 18:08	04/01/15 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*50 - 150*	*03/31/15 18:08*	*04/01/15 18:30*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 2A-W-10-032515
Date Collected: 03/25/15 09:53
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-11
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)	0.19	Y	0.024	0.014	mg/L		03/31/15 18:08	04/01/15 18:48	1
Motor Oil (>C24-C36)	0.33	Y	0.047	0.0093	mg/L		03/31/15 18:08	04/01/15 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*03/31/15 18:08*	*04/01/15 18:48*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 2A-W-9-032515
Date Collected: 03/25/15 09:25
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-12
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)	0.82	Y	0.024	0.014	mg/L		03/31/15 18:08	04/01/15 19:06	1
Motor Oil (>C24-C36)	0.33	Y	0.047	0.0093	mg/L		03/31/15 18:08	04/01/15 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*03/31/15 18:08*	*04/01/15 19:06*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 2A-W-90-032515
Date Collected: 03/25/15 09:30
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-13
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)	0.88	Y	0.024	0.014	mg/L		03/31/15 18:08	04/01/15 19:24	1
Motor Oil (>C24-C36)	0.34	Y	0.047	0.0093	mg/L		03/31/15 18:08	04/01/15 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*03/31/15 18:08*	*04/01/15 19:24*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 2B-W-4-032515
Date Collected: 03/25/15 11:58
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-14
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)	0.020	J	0.024	0.014	mg/L		04/03/15 15:55	04/07/15 12:12	1
Motor Oil (>C24-C36)	0.052	B Y	0.047	0.0093	mg/L		04/03/15 15:55	04/07/15 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*50 - 150*	*04/03/15 15:55*	*04/07/15 12:12*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: MW-3-032515
Date Collected: 03/25/15 10:45
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-15
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)	0.034	Y	0.024	0.014	mg/L		04/03/15 15:55	04/07/15 12:31	1
Motor Oil (>C24-C36)	0.075	B Y	0.047	0.0093	mg/L		04/03/15 15:55	04/07/15 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*04/03/15 15:55*	*04/07/15 12:31*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: MW-4-032515
Date Collected: 03/25/15 10:50
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-16
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)	0.12	Y	0.024	0.014	mg/L		04/03/15 15:55	04/07/15 12:50	1
Motor Oil (>C24-C36)	0.22	B Y	0.047	0.0093	mg/L		04/03/15 15:55	04/07/15 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*04/03/15 15:55*	*04/07/15 12:50*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: EW-1-032415
Date Collected: 03/24/15 15:45
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-17
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)	0.030	Y	0.024	0.014	mg/L		04/03/15 15:55	04/07/15 13:08	1
Motor Oil (>C24-C36)	0.059	B Y	0.048	0.0094	mg/L		04/03/15 15:55	04/07/15 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*04/03/15 15:55*	*04/07/15 13:08*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: EW-2A-032415
Date Collected: 03/24/15 14:38
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-18
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)	0.021	J	0.024	0.014	mg/L		04/03/15 15:55	04/07/15 13:27	1
Motor Oil (>C24-C36)	0.043	J B	0.047	0.0093	mg/L		04/03/15 15:55	04/07/15 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*50 - 150*	*04/03/15 15:55*	*04/07/15 13:27*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: GW-1-032515
Date Collected: 03/25/15 09:35
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-19
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)	0.047	Y	0.024	0.014	mg/L		04/03/15 15:55	04/07/15 13:46	1
Motor Oil (>C24-C36)	0.090	B Y	0.048	0.0094	mg/L		04/03/15 15:55	04/07/15 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*50 - 150*	*04/03/15 15:55*	*04/07/15 13:46*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: GW-2-032515
Date Collected: 03/25/15 10:35
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-20
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)	0.16	Y	0.024	0.014	mg/L		04/03/15 15:55	04/07/15 14:05	1
Motor Oil (>C24-C36)	0.14	B Y	0.048	0.0094	mg/L		04/03/15 15:55	04/07/15 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*50 - 150*	*04/03/15 15:55*	*04/07/15 14:05*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: GW-2-0-032515
Date Collected: 03/25/15 10:50
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-21
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)	0.16	Y	0.024	0.014	mg/L		04/03/15 15:55	04/07/15 14:43	1
Motor Oil (>C24-C36)	0.14	B Y	0.048	0.0094	mg/L		04/03/15 15:55	04/07/15 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*50 - 150*	*04/03/15 15:55*	*04/07/15 14:43*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: GW-3-032415
Date Collected: 03/24/15 16:35
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-22
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)	0.12	Y	0.024	0.014	mg/L		04/03/15 15:55	04/07/15 15:02	1
Motor Oil (>C24-C36)	0.089	B Y	0.047	0.0093	mg/L		04/03/15 15:55	04/07/15 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*04/03/15 15:55*	*04/07/15 15:02*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: GW-30-032415
Date Collected: 03/24/15 16:50
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-23
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)	0.13	Y	0.024	0.014	mg/L		04/03/15 15:55	04/07/15 15:20	1
Motor Oil (>C24-C36)	0.10	B Y	0.047	0.0093	mg/L		04/03/15 15:55	04/07/15 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*50 - 150*	*04/03/15 15:55*	*04/07/15 15:20*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: GW-4-032415
Date Collected: 03/24/15 14:30
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-24
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)	0.037	Y	0.024	0.014	mg/L		04/03/15 15:55	04/07/15 15:39	1
Motor Oil (>C24-C36)	0.080	B Y	0.047	0.0093	mg/L		04/03/15 15:55	04/07/15 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93*		*50 - 150*	*04/03/15 15:55*	*04/07/15 15:39*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S1-AD-032415
Date Collected: 03/24/15 11:35
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-25
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)	ND		0.024	0.014	mg/L		04/03/15 15:55	04/07/15 15:58	1
Motor Oil (>C24-C36)	**0.026**	**J B**	0.047	0.0093	mg/L		04/03/15 15:55	04/07/15 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*50 - 150*	*04/03/15 15:55*	*04/07/15 15:58*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S1-AU-032415
Date Collected: 03/24/15 12:00
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-26
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)	0.016	J	0.024	0.014	mg/L		04/03/15 15:55	04/07/15 16:17	1
Motor Oil (>C24-C36)	0.028	J B	0.047	0.0093	mg/L		04/03/15 15:55	04/07/15 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*04/03/15 15:55*	*04/07/15 16:17*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S1-BD-032415
Date Collected: 03/24/15 11:28
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-27
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)	0.014	J	0.024	0.014	mg/L		04/03/15 15:55	04/07/15 16:36	1
Motor Oil (>C24-C36)	0.029	J B	0.048	0.0094	mg/L		04/03/15 15:55	04/07/15 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*04/03/15 15:55*	*04/07/15 16:36*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S1-BU-032415
Date Collected: 03/24/15 12:30
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-28
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)	0.020	J	0.024	0.014	mg/L		04/03/15 15:55	04/07/15 16:55	1
Motor Oil (>C24-C36)	0.039	J B	0.047	0.0093	mg/L		04/03/15 15:55	04/07/15 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*50 - 150*	*04/03/15 15:55*	*04/07/15 16:55*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S2-AD-032415
Date Collected: 03/24/15 11:32
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-29
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)	0.014	J	0.024	0.014	mg/L		04/03/15 15:55	04/07/15 17:14	1
Motor Oil (>C24-C36)	0.024	J B	0.047	0.0093	mg/L		04/03/15 15:55	04/07/15 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*50 - 150*	*04/03/15 15:55*	*04/07/15 17:14*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S2-AU-032415
Date Collected: 03/24/15 12:03
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-30
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)	0.014	J	0.024	0.014	mg/L		04/03/15 15:55	04/07/15 17:33	1
Motor Oil (>C24-C36)	0.023	J B	0.047	0.0093	mg/L		04/03/15 15:55	04/07/15 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*50 - 150*	*04/03/15 15:55*	*04/07/15 17:33*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S2-BD-032415
Date Collected: 03/24/15 11:52
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-31
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)	ND		0.024	0.014	mg/L		04/03/15 15:55	04/08/15 06:52	1
Motor Oil (>C24-C36)	**0.017**	**J B**	0.048	0.0094	mg/L		04/03/15 15:55	04/08/15 06:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*50 - 150*	*04/03/15 15:55*	*04/08/15 06:52*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S2-BU-032415
Date Collected: 03/24/15 11:23
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-32
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)	0.13	Y	0.024	0.014	mg/L		04/03/15 15:55	04/08/15 07:11	1
Motor Oil (>C24-C36)	0.090	B Y	0.048	0.0094	mg/L		04/03/15 15:55	04/08/15 07:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*50 - 150*	*04/03/15 15:55*	*04/08/15 07:11*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S3-AD-032415
Date Collected: 03/24/15 10:25
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-33
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)	0.022	J	0.024	0.014	mg/L		04/03/15 15:55	04/08/15 07:29	1
Motor Oil (>C24-C36)	0.024	J B	0.047	0.0093	mg/L		04/03/15 15:55	04/08/15 07:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*50 - 150*	*04/03/15 15:55*	*04/08/15 07:29*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S3-AU-032415
Date Collected: 03/24/15 10:52
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-34
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)	0.11	Y	0.024	0.014	mg/L		04/06/15 14:27	04/07/15 10:39	1
Motor Oil (>C24-C36)	0.051	Y	0.047	0.0093	mg/L		04/06/15 14:27	04/07/15 10:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*50 - 150*	*04/06/15 14:27*	*04/07/15 10:39*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S3-BD-032415
Date Collected: 03/24/15 10:13
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-35
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)	0.020	J	0.024	0.014	mg/L		04/06/15 14:27	04/07/15 10:57	1
Motor Oil (>C24-C36)	0.020	J	0.047	0.0093	mg/L		04/06/15 14:27	04/07/15 10:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*50 - 150*	*04/06/15 14:27*	*04/07/15 10:57*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S3-BU-032415
Date Collected: 03/24/15 10:45
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-36
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)	0.032	Y	0.024	0.014	mg/L		04/06/15 14:27	04/07/15 11:15	1
Motor Oil (>C24-C36)	0.017	J	0.048	0.0093	mg/L		04/06/15 14:27	04/07/15 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*50 - 150*	*04/06/15 14:27*	*04/07/15 11:15*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S3-CD-032415
Date Collected: 03/24/15 10:45
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-37
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)	0.016	J	0.024	0.014	mg/L		04/06/15 14:27	04/07/15 11:33	1
Motor Oil (>C24-C36)	0.012	J	0.048	0.0093	mg/L		04/06/15 14:27	04/07/15 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*50 - 150*	*04/06/15 14:27*	*04/07/15 11:33*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S3-CU-032415
Date Collected: 03/24/15 10:15
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-38
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)	0.014	J	0.024	0.014	mg/L		04/06/15 14:27	04/07/15 11:51	1
Motor Oil (>C24-C36)	0.012	J	0.048	0.0094	mg/L		04/06/15 14:27	04/07/15 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*50 - 150*	*04/06/15 14:27*	*04/07/15 11:51*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S4-AD-032415
Date Collected: 03/24/15 08:58
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-39
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)	0.016	J	0.024	0.014	mg/L		04/06/15 14:27	04/07/15 12:09	1
Motor Oil (>C24-C36)	0.013	J	0.048	0.0094	mg/L		04/06/15 14:27	04/07/15 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*50 - 150*	*04/06/15 14:27*	*04/07/15 12:09*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S4-AU-032415
Date Collected: 03/24/15 09:38
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-40
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)	0.018	J	0.024	0.014	mg/L		04/06/15 14:27	04/07/15 12:28	1
Motor Oil (>C24-C36)	0.030	J	0.048	0.0094	mg/L		04/06/15 14:27	04/07/15 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*50 - 150*	*04/06/15 14:27*	*04/07/15 12:28*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S4-BD-032415
Date Collected: 03/24/15 09:30
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-41
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)	0.018	J	0.024	0.014	mg/L		04/06/15 14:27	04/07/15 12:46	1
Motor Oil (>C24-C36)	0.016	J	0.048	0.0093	mg/L		04/06/15 14:27	04/07/15 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*50 - 150*	*04/06/15 14:27*	*04/07/15 12:46*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S4-BU-032415
Date Collected: 03/24/15 09:20
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-42
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)	0.018	J	0.024	0.014	mg/L		04/06/15 14:27	04/07/15 13:04	1
Motor Oil (>C24-C36)	0.022	J	0.047	0.0093	mg/L		04/06/15 14:27	04/07/15 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*50 - 150*	*04/06/15 14:27*	*04/07/15 13:04*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S4-CD-032415
Date Collected: 03/24/15 08:55
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-43
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)	0.019	J	0.024	0.014	mg/L		04/07/15 15:59	04/08/15 13:24	1
Motor Oil (>C24-C36)	0.022	J	0.047	0.0093	mg/L		04/07/15 15:59	04/08/15 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*04/07/15 15:59*	*04/08/15 13:24*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S4-CU-032415
Date Collected: 03/24/15 08:55
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-44
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)	0.024	Y	0.024	0.014	mg/L		04/07/15 15:59	04/08/15 13:43	1
Motor Oil (>C24-C36)	0.025	J	0.047	0.0093	mg/L		04/07/15 15:59	04/08/15 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*04/07/15 15:59*	*04/08/15 13:43*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 5-W-14-032615
Date Collected: 03/24/15 09:23
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-45
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)	ND		0.024	0.014	mg/L		04/07/15 15:59	04/08/15 14:02	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		04/07/15 15:59	04/08/15 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*04/07/15 15:59*	*04/08/15 14:02*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 5-W-15-032615
Date Collected: 03/26/15 11:35
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-46
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)	0.16	Y	0.024	0.014	mg/L		04/07/15 15:59	04/08/15 14:21	1
Motor Oil (>C24-C36)	0.22	Y	0.047	0.0093	mg/L		04/07/15 15:59	04/08/15 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*04/07/15 15:59*	*04/08/15 14:21*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 5-W-16-032615
Date Collected: 03/26/15 10:10
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-47
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)	0.018	J	0.024	0.014	mg/L		04/07/15 15:59	04/08/15 14:59	1
Motor Oil (>C24-C36)	0.016	J	0.047	0.0093	mg/L		04/07/15 15:59	04/08/15 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*50 - 150*	*04/07/15 15:59*	*04/08/15 14:59*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 5-W-160-032615
Date Collected: 03/26/15 11:40
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-48
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)	0.017	J	0.024	0.014	mg/L		04/07/15 15:59	04/08/15 15:19	1
Motor Oil (>C24-C36)	0.014	J	0.048	0.0093	mg/L		04/07/15 15:59	04/08/15 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*04/07/15 15:59*	*04/08/15 15:19*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 5-W-17-032615
Date Collected: 03/26/15 11:35
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-49
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)	ND		0.024	0.014	mg/L		04/07/15 15:59	04/08/15 15:37	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		04/07/15 15:59	04/08/15 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*04/07/15 15:59*	*04/08/15 15:37*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 5-W-18-032515
Date Collected: 03/25/15 14:42
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-50
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)	0.063	Y	0.024	0.014	mg/L		04/07/15 15:59	04/08/15 15:57	1
Motor Oil (>C24-C36)	0.088	Y	0.047	0.0093	mg/L		04/07/15 15:59	04/08/15 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*04/07/15 15:59*	*04/08/15 15:57*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 5-W-19-032515
Date Collected: 03/25/15 13:56
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-51
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)	0.018	J	0.024	0.014	mg/L		04/07/15 15:59	04/08/15 16:16	1
Motor Oil (>C24-C36)	0.012	J	0.047	0.0093	mg/L		04/07/15 15:59	04/08/15 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*50 - 150*	*04/07/15 15:59*	*04/08/15 16:16*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 5-W-50-032515
Date Collected: 03/25/15 15:27
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-52
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)	0.64	Y	0.024	0.014	mg/L		04/07/15 15:59	04/08/15 16:35	1
Motor Oil (>C24-C36)	0.66	Y	0.047	0.0093	mg/L		04/07/15 15:59	04/08/15 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*04/07/15 15:59*	*04/08/15 16:35*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 5-W-54-032515
Date Collected: 03/25/15 16:30
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-53
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)	0.025	Y	0.024	0.014	mg/L		04/07/15 15:59	04/08/15 16:54	1
Motor Oil (>C24-C36)	0.053	Y	0.048	0.0094	mg/L		04/07/15 15:59	04/08/15 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*96*		*50 - 150*	*04/07/15 15:59*	*04/08/15 16:54*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 5-W-55-032515
Date Collected: 03/25/15 14:55
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-54
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)	0.030	Y	0.024	0.014	mg/L		04/07/15 15:59	04/08/15 17:13	1
Motor Oil (>C24-C36)	0.065	Y	0.048	0.0094	mg/L		04/07/15 15:59	04/08/15 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*96*		*50 - 150*	*04/07/15 15:59*	*04/08/15 17:13*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 5-W-56-032515
Date Collected: 03/25/15 15:45
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-55
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)	0.24	Y	0.024	0.014	mg/L		04/07/15 15:59	04/08/15 17:32	1
Motor Oil (>C24-C36)	0.51	Y	0.048	0.0094	mg/L		04/07/15 15:59	04/08/15 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*108*		*50 - 150*	*04/07/15 15:59*	*04/08/15 17:32*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 1A-W-4-032515
Date Collected: 03/25/15 16:17
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-56
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)	0.016	J	0.024	0.014	mg/L		04/07/15 15:59	04/08/15 17:51	1
Motor Oil (>C24-C36)	0.018	J	0.047	0.0093	mg/L		04/07/15 15:59	04/08/15 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*04/07/15 15:59*	*04/08/15 17:51*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 1B-W-2-032615
Date Collected: 03/26/15 13:08
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-57
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)	0.030	Y	0.024	0.014	mg/L		04/08/15 16:47	04/10/15 20:59	1
Motor Oil (>C24-C36)	0.082	Y B	0.047	0.0093	mg/L		04/08/15 16:47	04/10/15 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*50 - 150*	*04/08/15 16:47*	*04/10/15 20:59*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 1B-W-3-032615
Date Collected: 03/26/15 13:00
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-58
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)	0.027	Y	0.024	0.014	mg/L		04/08/15 16:47	04/10/15 21:35	1
Motor Oil (>C24-C36)	0.039	J B	0.047	0.0093	mg/L		04/08/15 16:47	04/10/15 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*50 - 150*	*04/08/15 16:47*	*04/10/15 21:35*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 1C-W-3-032615
Date Collected: 03/26/15 11:55
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-59
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)	ND		0.024	0.014	mg/L		04/08/15 16:47	04/10/15 21:53	1
Motor Oil (>C24-C36)	**0.020**	**J B**	0.048	0.0094	mg/L		04/08/15 16:47	04/10/15 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*50 - 150*	*04/08/15 16:47*	*04/10/15 21:53*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 1C-W-4-032615
Date Collected: 03/26/15 12:55
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-60
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)	0.13	Y	0.024	0.014	mg/L		04/08/15 16:47	04/10/15 22:11	1
Motor Oil (>C24-C36)	0.10	Y B	0.048	0.0094	mg/L		04/08/15 16:47	04/10/15 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*50 - 150*	*04/08/15 16:47*	*04/10/15 22:11*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: MW-16-032515
Date Collected: 03/25/15 12:20
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-61
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)	0.019	J	0.024	0.014	mg/L		04/07/15 15:59	04/08/15 19:19	1
Motor Oil (>C24-C36)	0.033	J	0.047	0.0093	mg/L		04/07/15 15:59	04/08/15 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*102*		*50 - 150*	*04/07/15 15:59*	*04/08/15 19:19*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: MW-38R-032415
Date Collected: 03/24/15 14:45
Date Received: 03/27/15 10:30

Lab Sample ID: 580-48478-62
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)	0.055	Y	0.024	0.014	mg/L		04/07/15 15:59	04/08/15 19:38	1
Motor Oil (>C24-C36)	0.063	Y	0.048	0.0094	mg/L		04/07/15 15:59	04/08/15 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*106*		*50 - 150*	*04/07/15 15:59*	*04/08/15 19:38*	*1*

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

Lab Sample ID: MB 580-185725/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 185778 — **Prep Batch: 185725**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		03/31/15 18:08	04/01/15 14:35	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		03/31/15 18:08	04/01/15 14:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*03/31/15 18:08*	*04/01/15 14:35*	*1*

Lab Sample ID: LCS 580-185725/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 185778 — **Prep Batch: 185725**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.451		mg/L		90	59 - 120
Motor Oil (>C24-C36)	0.502	0.553		mg/L		110	71 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*84*		*50 - 150*

Lab Sample ID: LCSD 580-185725/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 185778 — **Prep Batch: 185725**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	0.500	0.480		mg/L		96	59 - 120	6	27
Motor Oil (>C24-C36)	0.502	0.528		mg/L		105	71 - 140	5	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*85*		*50 - 150*

Lab Sample ID: MB 580-186030/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 186228 — **Prep Batch: 186030**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		04/03/15 15:55	04/07/15 11:15	1
Motor Oil (>C24-C36)	0.0128	J	0.050	0.0098	mg/L		04/03/15 15:55	04/07/15 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*04/03/15 15:55*	*04/07/15 11:15*	*1*

Lab Sample ID: LCS 580-186030/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 186228 — **Prep Batch: 186030**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.463		mg/L		93	59 - 120
Motor Oil (>C24-C36)	0.502	0.584		mg/L		116	71 - 140

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

Lab Sample ID: LCS 580-186030/2-A
Matrix: Water
Analysis Batch: 186228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 186030

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	90		50 - 150

Lab Sample ID: LCSD 580-186030/3-A
Matrix: Water
Analysis Batch: 186228

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 186030

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.462		mg/L		92	59 - 120	0	27
Motor Oil (>C24-C36)			0.502	0.584		mg/L		116	71 - 140	0	27

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	90		50 - 150

Lab Sample ID: MB 580-186174/1-A
Matrix: Water
Analysis Batch: 186201

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 186174

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		04/06/15 14:27	04/07/15 07:19	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		04/06/15 14:27	04/07/15 07:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	83		50 - 150	04/06/15 14:27	04/07/15 07:19	1

Lab Sample ID: LCS 580-186174/2-A
Matrix: Water
Analysis Batch: 186201

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 186174

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)			0.500	0.447		mg/L		89	59 - 120
Motor Oil (>C24-C36)			0.502	0.491		mg/L		98	71 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	92		50 - 150

Lab Sample ID: LCSD 580-186174/3-A
Matrix: Water
Analysis Batch: 186201

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 186174

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.453		mg/L		91	59 - 120	1	27
Motor Oil (>C24-C36)			0.502	0.499		mg/L		99	71 - 140	1	27

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	92		50 - 150

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

Lab Sample ID: MB 580-186274/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 186310 — **Prep Batch: 186274**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		04/07/15 15:59	04/08/15 11:30	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		04/07/15 15:59	04/08/15 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*50 - 150*	*04/07/15 15:59*	*04/08/15 11:30*	*1*

Lab Sample ID: LCS 580-186274/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 186310 — **Prep Batch: 186274**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.467		mg/L		93	59 - 120
Motor Oil (>C24-C36)	0.502	0.573		mg/L		114	71 - 140

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

Lab Sample ID: LCSD 580-186274/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 186310 — **Prep Batch: 186274**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	0.500	0.495		mg/L		99	59 - 120	6	27
Motor Oil (>C24-C36)	0.502	0.607		mg/L		121	71 - 140	6	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*95*		*50 - 150*

Lab Sample ID: MB 580-186384/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 186528 — **Prep Batch: 186384**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		04/08/15 16:47	04/10/15 20:04	1
Motor Oil (>C24-C36)	0.0219	J	0.050	0.0098	mg/L		04/08/15 16:47	04/10/15 20:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*50 - 150*	*04/08/15 16:47*	*04/10/15 20:04*	*1*

Lab Sample ID: LCS 580-186384/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 186528 — **Prep Batch: 186384**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.358		mg/L		72	59 - 120
Motor Oil (>C24-C36)	0.502	0.439		mg/L		87	71 - 140

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

Lab Sample ID: LCS 580-186384/2-A
Matrix: Water
Analysis Batch: 186528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 186384

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*71*		*50 - 150*

Lab Sample ID: LCSD 580-186384/3-A
Matrix: Water
Analysis Batch: 186528

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 186384

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.376		mg/L		75	59 - 120	5	27
Motor Oil (>C24-C36)			0.502	0.475		mg/L		95	71 - 140	8	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*74*		*50 - 150*

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: IC-W-1-032615
Lab Sample ID: 580-48478-1
Date Collected: 03/26/15 11:00
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			185725	03/31/15 18:08	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	185778	04/01/15 15:29	EKK	TAL SEA

Client Sample ID: IC-W-7-032415
Lab Sample ID: 580-48478-2
Date Collected: 03/24/15 15:32
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			185725	03/31/15 18:08	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	185778	04/01/15 15:47	EKK	TAL SEA

Client Sample ID: IC-W-8-032615
Lab Sample ID: 580-48478-3
Date Collected: 03/26/15 09:50
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			185725	03/31/15 18:08	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	185778	04/01/15 16:05	EKK	TAL SEA

Client Sample ID: IC-W-8-0-032615
Lab Sample ID: 580-48478-4
Date Collected: 03/26/15 10:00
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			185725	03/31/15 18:08	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	185778	04/01/15 16:23	EKK	TAL SEA

Client Sample ID: IB-W-23-032415
Lab Sample ID: 580-48478-5
Date Collected: 03/24/15 16:48
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			185725	03/31/15 18:08	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	185778	04/01/15 16:41	EKK	TAL SEA

Client Sample ID: 2A-W-40-032515
Lab Sample ID: 580-48478-6
Date Collected: 03/25/15 11:45
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			185725	03/31/15 18:08	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	185778	04/01/15 16:59	EKK	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 2A-W-41-032515

Lab Sample ID: 580-48478-7

Date Collected: 03/25/15 13:55
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			185725	03/31/15 18:08	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	185778	04/01/15 17:18	EKK	TAL SEA

Client Sample ID: 2A-W-42-032415

Lab Sample ID: 580-48478-8

Date Collected: 03/24/15 15:40
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			185725	03/31/15 18:08	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	185778	04/01/15 17:54	EKK	TAL SEA

Client Sample ID: 5-W-43-032415

Lab Sample ID: 580-48478-9

Date Collected: 03/24/15 16:30
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			185725	03/31/15 18:08	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	185778	04/01/15 18:12	EKK	TAL SEA

Client Sample ID: 5-W-43-0-032415

Lab Sample ID: 580-48478-10

Date Collected: 03/24/15 16:45
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			185725	03/31/15 18:08	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	185778	04/01/15 18:30	EKK	TAL SEA

Client Sample ID: 2A-W-10-032515

Lab Sample ID: 580-48478-11

Date Collected: 03/25/15 09:53
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			185725	03/31/15 18:08	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	185778	04/01/15 18:48	EKK	TAL SEA

Client Sample ID: 2A-W-9-032515

Lab Sample ID: 580-48478-12

Date Collected: 03/25/15 09:25
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			185725	03/31/15 18:08	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	185778	04/01/15 19:06	EKK	TAL SEA

Client Sample ID: 2A-W-90-032515

Lab Sample ID: 580-48478-13

Date Collected: 03/25/15 09:30

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			185725	03/31/15 18:08	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	185778	04/01/15 19:24	EKK	TAL SEA

Client Sample ID: 2B-W-4-032515

Lab Sample ID: 580-48478-14

Date Collected: 03/25/15 11:58

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186030	04/03/15 15:55	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186228	04/07/15 12:12	EKK	TAL SEA

Client Sample ID: MW-3-032515

Lab Sample ID: 580-48478-15

Date Collected: 03/25/15 10:45

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186030	04/03/15 15:55	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186228	04/07/15 12:31	EKK	TAL SEA

Client Sample ID: MW-4-032515

Lab Sample ID: 580-48478-16

Date Collected: 03/25/15 10:50

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186030	04/03/15 15:55	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186228	04/07/15 12:50	EKK	TAL SEA

Client Sample ID: EW-1-032415

Lab Sample ID: 580-48478-17

Date Collected: 03/24/15 15:45

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186030	04/03/15 15:55	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186228	04/07/15 13:08	EKK	TAL SEA

Client Sample ID: EW-2A-032415

Lab Sample ID: 580-48478-18

Date Collected: 03/24/15 14:38

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186030	04/03/15 15:55	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186228	04/07/15 13:27	EKK	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: GW-1-032515
Lab Sample ID: 580-48478-19
Date Collected: 03/25/15 09:35
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186030	04/03/15 15:55	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186228	04/07/15 13:46	EKK	TAL SEA

Client Sample ID: GW-2-032515
Lab Sample ID: 580-48478-20
Date Collected: 03/25/15 10:35
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186030	04/03/15 15:55	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186228	04/07/15 14:05	EKK	TAL SEA

Client Sample ID: GW-2-0-032515
Lab Sample ID: 580-48478-21
Date Collected: 03/25/15 10:50
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186030	04/03/15 15:55	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186228	04/07/15 14:43	EKK	TAL SEA

Client Sample ID: GW-3-032415
Lab Sample ID: 580-48478-22
Date Collected: 03/24/15 16:35
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186030	04/03/15 15:55	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186228	04/07/15 15:02	EKK	TAL SEA

Client Sample ID: GW-30-032415
Lab Sample ID: 580-48478-23
Date Collected: 03/24/15 16:50
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186030	04/03/15 15:55	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186228	04/07/15 15:20	EKK	TAL SEA

Client Sample ID: GW-4-032415
Lab Sample ID: 580-48478-24
Date Collected: 03/24/15 14:30
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186030	04/03/15 15:55	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186228	04/07/15 15:39	EKK	TAL SEA

Client Sample ID: S1-AD-032415

Lab Sample ID: 580-48478-25

Date Collected: 03/24/15 11:35

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186030	04/03/15 15:55	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186228	04/07/15 15:58	EKK	TAL SEA

Client Sample ID: S1-AU-032415

Lab Sample ID: 580-48478-26

Date Collected: 03/24/15 12:00

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186030	04/03/15 15:55	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186228	04/07/15 16:17	EKK	TAL SEA

Client Sample ID: S1-BD-032415

Lab Sample ID: 580-48478-27

Date Collected: 03/24/15 11:28

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186030	04/03/15 15:55	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186228	04/07/15 16:36	EKK	TAL SEA

Client Sample ID: S1-BU-032415

Lab Sample ID: 580-48478-28

Date Collected: 03/24/15 12:30

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186030	04/03/15 15:55	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186228	04/07/15 16:55	EKK	TAL SEA

Client Sample ID: S2-AD-032415

Lab Sample ID: 580-48478-29

Date Collected: 03/24/15 11:32

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186030	04/03/15 15:55	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186228	04/07/15 17:14	EKK	TAL SEA

Client Sample ID: S2-AU-032415

Lab Sample ID: 580-48478-30

Date Collected: 03/24/15 12:03

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186030	04/03/15 15:55	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186228	04/07/15 17:33	EKK	TAL SEA

Client Sample ID: S2-BD-032415

Lab Sample ID: 580-48478-31

Date Collected: 03/24/15 11:52

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186030	04/03/15 15:55	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186228	04/08/15 06:52	EKK	TAL SEA

Client Sample ID: S2-BU-032415

Lab Sample ID: 580-48478-32

Date Collected: 03/24/15 11:23

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186030	04/03/15 15:55	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186228	04/08/15 07:11	EKK	TAL SEA

Client Sample ID: S3-AD-032415

Lab Sample ID: 580-48478-33

Date Collected: 03/24/15 10:25

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186030	04/03/15 15:55	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186228	04/08/15 07:29	EKK	TAL SEA

Client Sample ID: S3-AU-032415

Lab Sample ID: 580-48478-34

Date Collected: 03/24/15 10:52

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186174	04/06/15 14:27	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186201	04/07/15 10:39	EKK	TAL SEA

Client Sample ID: S3-BD-032415

Lab Sample ID: 580-48478-35

Date Collected: 03/24/15 10:13

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186174	04/06/15 14:27	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186201	04/07/15 10:57	EKK	TAL SEA

Client Sample ID: S3-BU-032415

Lab Sample ID: 580-48478-36

Date Collected: 03/24/15 10:45

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186174	04/06/15 14:27	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186201	04/07/15 11:15	EKK	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: S3-CD-032415
Lab Sample ID: 580-48478-37
Date Collected: 03/24/15 10:45
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186174	04/06/15 14:27	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186201	04/07/15 11:33	EKK	TAL SEA

Client Sample ID: S3-CU-032415
Lab Sample ID: 580-48478-38
Date Collected: 03/24/15 10:15
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186174	04/06/15 14:27	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186201	04/07/15 11:51	EKK	TAL SEA

Client Sample ID: S4-AD-032415
Lab Sample ID: 580-48478-39
Date Collected: 03/24/15 08:58
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186174	04/06/15 14:27	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186201	04/07/15 12:09	EKK	TAL SEA

Client Sample ID: S4-AU-032415
Lab Sample ID: 580-48478-40
Date Collected: 03/24/15 09:38
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186174	04/06/15 14:27	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186201	04/07/15 12:28	EKK	TAL SEA

Client Sample ID: S4-BD-032415
Lab Sample ID: 580-48478-41
Date Collected: 03/24/15 09:30
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186174	04/06/15 14:27	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186201	04/07/15 12:46	EKK	TAL SEA

Client Sample ID: S4-BU-032415
Lab Sample ID: 580-48478-42
Date Collected: 03/24/15 09:20
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186174	04/06/15 14:27	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186201	04/07/15 13:04	EKK	TAL SEA

Client Sample ID: S4-CD-032415

Lab Sample ID: 580-48478-43

Date Collected: 03/24/15 08:55

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186274	04/07/15 15:59	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186310	04/08/15 13:24	EKK	TAL SEA

Client Sample ID: S4-CU-032415

Lab Sample ID: 580-48478-44

Date Collected: 03/24/15 08:55

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186274	04/07/15 15:59	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186310	04/08/15 13:43	EKK	TAL SEA

Client Sample ID: 5-W-14-032615

Lab Sample ID: 580-48478-45

Date Collected: 03/24/15 09:23

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186274	04/07/15 15:59	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186310	04/08/15 14:02	EKK	TAL SEA

Client Sample ID: 5-W-15-032615

Lab Sample ID: 580-48478-46

Date Collected: 03/26/15 11:35

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186274	04/07/15 15:59	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186310	04/08/15 14:21	EKK	TAL SEA

Client Sample ID: 5-W-16-032615

Lab Sample ID: 580-48478-47

Date Collected: 03/26/15 10:10

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186274	04/07/15 15:59	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186310	04/08/15 14:59	EKK	TAL SEA

Client Sample ID: 5-W-160-032615

Lab Sample ID: 580-48478-48

Date Collected: 03/26/15 11:40

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186274	04/07/15 15:59	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186310	04/08/15 15:19	EKK	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 5-W-17-032615

Lab Sample ID: 580-48478-49

Date Collected: 03/26/15 11:35
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186274	04/07/15 15:59	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186310	04/08/15 15:37	EKK	TAL SEA

Client Sample ID: 5-W-18-032515

Lab Sample ID: 580-48478-50

Date Collected: 03/25/15 14:42
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186274	04/07/15 15:59	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186310	04/08/15 15:57	EKK	TAL SEA

Client Sample ID: 5-W-19-032515

Lab Sample ID: 580-48478-51

Date Collected: 03/25/15 13:56
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186274	04/07/15 15:59	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186310	04/08/15 16:16	EKK	TAL SEA

Client Sample ID: 5-W-50-032515

Lab Sample ID: 580-48478-52

Date Collected: 03/25/15 15:27
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186274	04/07/15 15:59	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186310	04/08/15 16:35	EKK	TAL SEA

Client Sample ID: 5-W-54-032515

Lab Sample ID: 580-48478-53

Date Collected: 03/25/15 16:30
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186274	04/07/15 15:59	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186310	04/08/15 16:54	EKK	TAL SEA

Client Sample ID: 5-W-55-032515

Lab Sample ID: 580-48478-54

Date Collected: 03/25/15 14:55
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186274	04/07/15 15:59	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186310	04/08/15 17:13	EKK	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: 5-W-56-032515

Lab Sample ID: 580-48478-55

Date Collected: 03/25/15 15:45
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186274	04/07/15 15:59	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186310	04/08/15 17:32	EKK	TAL SEA

Client Sample ID: 1A-W-4-032515

Lab Sample ID: 580-48478-56

Date Collected: 03/25/15 16:17
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186274	04/07/15 15:59	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186310	04/08/15 17:51	EKK	TAL SEA

Client Sample ID: 1B-W-2-032615

Lab Sample ID: 580-48478-57

Date Collected: 03/26/15 13:08
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186384	04/08/15 16:47	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186528	04/10/15 20:59	EKK	TAL SEA

Client Sample ID: 1B-W-3-032615

Lab Sample ID: 580-48478-58

Date Collected: 03/26/15 13:00
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186384	04/08/15 16:47	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186528	04/10/15 21:35	EKK	TAL SEA

Client Sample ID: 1C-W-3-032615

Lab Sample ID: 580-48478-59

Date Collected: 03/26/15 11:55
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186384	04/08/15 16:47	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186528	04/10/15 21:53	EKK	TAL SEA

Client Sample ID: 1C-W-4-032615

Lab Sample ID: 580-48478-60

Date Collected: 03/26/15 12:55
Matrix: Water
Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186384	04/08/15 16:47	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186528	04/10/15 22:11	EKK	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Client Sample ID: MW-16-032515

Lab Sample ID: 580-48478-61

Date Collected: 03/25/15 12:20

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186274	04/07/15 15:59	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186310	04/08/15 19:19	EKK	TAL SEA

Client Sample ID: MW-38R-032415

Lab Sample ID: 580-48478-62

Date Collected: 03/24/15 14:45

Matrix: Water

Date Received: 03/27/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			186274	04/07/15 15:59	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	186310	04/08/15 19:38	EKK	TAL SEA

Laboratory References:

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

Certification Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Laboratory: TestAmerica Seattle

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-16
California	State Program	9	2901	01-31-17
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-15
US Fish & Wildlife	Federal		LE192332-0	02-28-16
USDA	Federal		P330-11-00222	04-08-17
Washington	State Program	10	C553	02-17-16

Sample Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-48478-1	IC-W-1-032615	Water	03/26/15 11:00	03/27/15 10:30
580-48478-2	IC-W-7-032415	Water	03/24/15 15:32	03/27/15 10:30
580-48478-3	IC-W-8-032615	Water	03/26/15 09:50	03/27/15 10:30
580-48478-4	IC-W-8-0-032615	Water	03/26/15 10:00	03/27/15 10:30
580-48478-5	IB-W-23-032415	Water	03/24/15 16:48	03/27/15 10:30
580-48478-6	2A-W-40-032515	Water	03/25/15 11:45	03/27/15 10:30
580-48478-7	2A-W-41-032515	Water	03/25/15 13:55	03/27/15 10:30
580-48478-8	2A-W-42-032415	Water	03/24/15 15:40	03/27/15 10:30
580-48478-9	5-W-43-032415	Water	03/24/15 16:30	03/27/15 10:30
580-48478-10	5-W-43-0-032415	Water	03/24/15 16:45	03/27/15 10:30
580-48478-11	2A-W-10-032515	Water	03/25/15 09:53	03/27/15 10:30
580-48478-12	2A-W-9-032515	Water	03/25/15 09:25	03/27/15 10:30
580-48478-13	2A-W-90-032515	Water	03/25/15 09:30	03/27/15 10:30
580-48478-14	2B-W-4-032515	Water	03/25/15 11:58	03/27/15 10:30
580-48478-15	MW-3-032515	Water	03/25/15 10:45	03/27/15 10:30
580-48478-16	MW-4-032515	Water	03/25/15 10:50	03/27/15 10:30
580-48478-17	EW-1-032415	Water	03/24/15 15:45	03/27/15 10:30
580-48478-18	EW-2A-032415	Water	03/24/15 14:38	03/27/15 10:30
580-48478-19	GW-1-032515	Water	03/25/15 09:35	03/27/15 10:30
580-48478-20	GW-2-032515	Water	03/25/15 10:35	03/27/15 10:30
580-48478-21	GW-2-0-032515	Water	03/25/15 10:50	03/27/15 10:30
580-48478-22	GW-3-032415	Water	03/24/15 16:35	03/27/15 10:30
580-48478-23	GW-30-032415	Water	03/24/15 16:50	03/27/15 10:30
580-48478-24	GW-4-032415	Water	03/24/15 14:30	03/27/15 10:30
580-48478-25	S1-AD-032415	Water	03/24/15 11:35	03/27/15 10:30
580-48478-26	S1-AU-032415	Water	03/24/15 12:00	03/27/15 10:30
580-48478-27	S1-BD-032415	Water	03/24/15 11:28	03/27/15 10:30
580-48478-28	S1-BU-032415	Water	03/24/15 12:30	03/27/15 10:30
580-48478-29	S2-AD-032415	Water	03/24/15 11:32	03/27/15 10:30
580-48478-30	S2-AU-032415	Water	03/24/15 12:03	03/27/15 10:30
580-48478-31	S2-BD-032415	Water	03/24/15 11:52	03/27/15 10:30
580-48478-32	S2-BU-032415	Water	03/24/15 11:23	03/27/15 10:30
580-48478-33	S3-AD-032415	Water	03/24/15 10:25	03/27/15 10:30
580-48478-34	S3-AU-032415	Water	03/24/15 10:52	03/27/15 10:30
580-48478-35	S3-BD-032415	Water	03/24/15 10:13	03/27/15 10:30
580-48478-36	S3-BU-032415	Water	03/24/15 10:45	03/27/15 10:30
580-48478-37	S3-CD-032415	Water	03/24/15 10:45	03/27/15 10:30
580-48478-38	S3-CU-032415	Water	03/24/15 10:15	03/27/15 10:30
580-48478-39	S4-AD-032415	Water	03/24/15 08:58	03/27/15 10:30
580-48478-40	S4-AU-032415	Water	03/24/15 09:38	03/27/15 10:30
580-48478-41	S4-BD-032415	Water	03/24/15 09:30	03/27/15 10:30
580-48478-42	S4-BU-032415	Water	03/24/15 09:20	03/27/15 10:30
580-48478-43	S4-CD-032415	Water	03/24/15 08:55	03/27/15 10:30
580-48478-44	S4-CU-032415	Water	03/24/15 08:55	03/27/15 10:30
580-48478-45	5-W-14-032615	Water	03/24/15 09:23	03/27/15 10:30
580-48478-46	5-W-15-032615	Water	03/26/15 11:35	03/27/15 10:30
580-48478-47	5-W-16-032615	Water	03/26/15 10:10	03/27/15 10:30
580-48478-48	5-W-160-032615	Water	03/26/15 11:40	03/27/15 10:30
580-48478-49	5-W-17-032615	Water	03/26/15 11:35	03/27/15 10:30
580-48478-50	5-W-18-032515	Water	03/25/15 14:42	03/27/15 10:30
580-48478-51	5-W-19-032515	Water	03/25/15 13:56	03/27/15 10:30
580-48478-52	5-W-50-032515	Water	03/25/15 15:27	03/27/15 10:30
580-48478-53	5-W-54-032515	Water	03/25/15 16:30	03/27/15 10:30

Sample Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-48478-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-48478-54	5-W-55-032515	Water	03/25/15 14:55	03/27/15 10:30
580-48478-55	5-W-56-032515	Water	03/25/15 15:45	03/27/15 10:30
580-48478-56	1A-W-4-032515	Water	03/25/15 16:17	03/27/15 10:30
580-48478-57	1B-W-2-032615	Water	03/26/15 13:08	03/27/15 10:30
580-48478-58	1B-W-3-032615	Water	03/26/15 13:00	03/27/15 10:30
580-48478-59	1C-W-3-032615	Water	03/26/15 11:55	03/27/15 10:30
580-48478-60	1C-W-4-032615	Water	03/26/15 12:55	03/27/15 10:30
580-48478-61	MW-16-032515	Water	03/25/15 12:20	03/27/15 10:30
580-48478-62	MW-38R-032415	Water	03/24/15 14:45	03/27/15 10:30

48478 !

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: TEST AMERICA
Project Manager: CHRIS ALLEN
Address:
Phone:
City/State/ZIP:
Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin:
Project City:
BNSF Project Name:
BNSF Contact:
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: FARALLON CONSULTING
Project Number: 683-043
Project Manager: JERRY PORTELE
Address: 975 5TH AVE NW
Email: JPORTELE@FARALLONCONSULTING.COM
City/State/ZIP: ISSAQUAH WA 98027
Phone: 425 295-0800
Fax: 425 295-0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 5- to 8-day Rush
- [ ] 2-day Rush
- [ ] Standard 10-Day
- [ ] 3-day Rush
- [ ] Other

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Other Deliverables?
- [ ] Level III
- [ ] EDD Req, Format?
- [ ] Level IV

METHODS FOR ANALYSIS

NWTPH-Dx

SAMPLE INFORMATION

	Sample Identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	NWTPH-Dx	COMMENTS	LAB USE
1	1C-W-1-032615	2	3/26	1100	A	N	G	W	X		
2	1C-W-7-032415		3/24	1532	J						
3	1C-W-8-032615		3/26	950	A						
4	1C-W-8-0-032615		3/26	1000	A						
5	1B-W-23-032415		3/24	1648	J						
6	2A-W-40-032515		3/25	1145	A						
7	2A-W-41-032515		3/25	1355	A						
8	2A-W-42-032415		3/24	1540	D						
9	5-W-43-032415		3/24	1630	A						
10	5-W-43-0-032415		3/24	1645	A						
11	2A-W-10-032515		3/25	0953	J						
12	2A-W-9-032515		3/25	0925	D						
13	2A-W-90-032515		3/25	0930	D						
14	2B-W-4-032515		3/25	1158	J						
15	MW-3-032515		3/25	1045	D						

580-48478 Chain of Custody

Relinquished By:	Date/Time: 3/27 0900	Received By:	Date/Time: 3/27/15 1030	Comments and Special Analytical Requirements:
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab: Custody Intact? ☐ Yes ☐ No	Custody Seal No. / BNSF COC No

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES | DUPLICATE - CONSULTANT | TAL-1001 (0912)

4/13/2015

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: TEST AMERICA
Project Manager: CHRIS ALLEN
Address:
Phone:
City/State/ZIP:
Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin:
Project City:
BNSF Project Name:
BNSF Contact:
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: FARALLON
Address:
City/State/ZIP:
Project Number: 683-043
Project Manager:
Email:
Phone:
Fax:

TURNAROUND TIME

- ☐ 1-day Rush
- ☐ 2-day Rush
- ☐ 3-day Rush
- ☐ 5- to 8-day Rush
- ☐ Standard 10-Day
- ☐ Other ______

DELIVERABLES

- ☐ BNSF Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☐ Other Deliverables? ______
- ☐ EDD Req, Format? ______

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	NWTPH-Dx								COMMENTS	LAB USE
1	MW-4-032515	2	3/25	1050	J	N	G	W	+									
2	EW-1-032415		3/24	1545	A													
3	EW-2A-032415		3/24	1438	D													
4	GW-1-032515		3/25	0935	A													
5	GW-2-032515		3/25	1035	A													
6	GW-2-0-032515		3/25	1050	A													
7	GW-3-032415		3/24	1635	D													
8	GW-30-032415		3/24	1650	D													
9	GW-4-032415		3/24	1430	J													
10	S1-AD-032415			1135	D													
11	S1-AU-032415			1200	D													
12	S1-BD-032415			1128	A													
13	S1-BU-032415			1230	D													
14	S2-AD-032415			1132	J													
15	S2-AU-032415			1203	J													

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	3/27 0900	[signature]	3/27/15 1030
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab: Custody Intact? ☐ Yes ☐ No

Comments and Special Analytical Requirements:

Custody Seal No.:

BNSF COC No

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

TAL-1001 (0912)

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: TEST AMERICA
Project Manager: CHRIS ALLEN
Address:
Phone:
City/State/ZIP:
Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin:
Project City:
BNSF Project Name:
BNSF Contact:
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: FARALLON
Project Number: 683-043
Project Manager:
Address:
Email:
City/State/ZIP:
Phone:
Fax:

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 5- to 8-day Rush
- [ ] 2-day Rush
- [ ] Standard 10-Day
- [ ] 3-day Rush
- [ ] Other _____

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Other Deliverables? _____
- [ ] Level III
- [ ] EDD Req, Format? _____
- [ ] Level IV

METHODS FOR ANALYSIS

SVOC-PAH-SIM

SAMPLE INFORMATION

	Sample Identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	COMMENTS	LAB USE
31	S2-BD-032415	2	3/24	1152	A	N	G	W		
32	S2-BU-032415		3/24	1123	A					
33	S3-AD-032415		3/24	1025	D					
34	S3-AU-032415		3/24	1052	D					
35	S3-BD-032415		3/24	1013	J					
36	S3-BU-032415		3/24	1045	J					
37	S3-CD-032415		3/24	1045	A					
38	S3-CU-032415		3/24	1015	A					
39	S4-AD-032415		3/24	0858	A					
40	S4-AU-032415		3/24	0938	A					
41	S4BD-032415		3/24	0930	J					
42	S4-BU-032415		3/24	0920	D					
43	S4-CD-032415		3/24	0855	J					
44	S4-CU-032415		3/24	0855	D					
45	~~S-W-14-032615~~		3/26	0923	D					

Relinquished By:	Date/Time: 3/27 0900	Received By:	Date/Time: 3/27/15 1030	Comments and Special Analytical Requirements:
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab: Custody Intact? ☐ Yes ☐ No	Custody Seal No. / BNSF COC No

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

TAL-1001 (0912)

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: TEST AMERICA | Project Manager: CHRIS ALLEN
Address: | Phone:
City/State/ZIP: | Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number: | Project State of Origin:
BNSF Project Name: | Project City:
BNSF Contact: | BNSF Work Order No.:

CONSULTANT INFORMATION

Company: FARALLON | Project Number: 683-043
Address: | Project Manager:
City/State/ZIP: | Email:
Phone: | Fax:

TURNAROUND TIME

☐ 1-day Rush ☐ 5- to 8-day Rush
☐ 2-day Rush ☐ Standard 10-Day
☐ 3-day Rush ☐ Other _____

DELIVERABLES

☐ BNSF Standard (Level II) ☐ Other Deliverables? _____
☐ Level III ☐ EDD Req, Format? _____
☐ Level IV _____

METHODS FOR ANALYSIS

XG-HDLMN

SAMPLE INFORMATION

		Sample Identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/ Grab)	Matrix	XG-HDLMN	COMMENTS	LAB USE
46	4	5-W-15-032615	2	3/26	1135	D	N	G	W	X		
47	5	5-W-16-032615		3/26	1010	J						
48	6	5-W-160-032615		3/26	1140	J						
49	7	5-W-17-032615		3/26	1135	J						
50	5	5-W-18-032515		3/25	1442	D						
51	6	5-W-19-032515		3/25	1356	J						
52	7	5-W-50-032515		3/25	1527	J						
53	8	5-W-54-032515		3/25	1630	A						
54	9	5-W-55-032515		3/25	1455	A						
55	10	5-W-56-032515		3/25	1545	A						
56	11	1A-W-4-032515		3/25	1617	J						
57	12	1B-W-2-032615		3/26	1308	J						
58	13	1B-W-3-032615		3/26	1300	J						
59	14	1C-W-3-032615		3/26	1155	A						
60	15	1C-W-4-032615		3/26	1255	A						

Relinquished By:	Date/Time: 3/27 0900	Received By:	Date/Time: 3/27/15 1030	Comments and Special Analytical Requirements:
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab: Custody Intact? ☐ Yes ☐ No	Custody Seal No. / BNSF COC No

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES | DUPLICATE - CONSULTANT | TAL-1001 (0912)

5

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: TEST AMERICA
Project Manager: CHRIS ALLEN
Address:
Phone:
City/State/ZIP:
Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin:
Project City:
BNSF Project Name:
BNSF Contact:
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: FARALLON
Project Number: 683-043
Project Manager:
Address:
Email:
City/State/ZIP:
Phone:
Fax:

TURNAROUND TIME

☐ 1-day Rush ☐ 5- to 8-day Rush
☐ 2-day Rush ☐ Standard 10-Day
☐ 3-day Rush ☐ Other _____

DELIVERABLES

☐ BNSF Standard (Level II) ☐ Other Deliverables? _____
☐ Level III ☐ EDD Req, Format? _____
☐ Level IV _____

SAMPLE INFORMATION

#	Sample Identification	Containers	Sample Collection Date	Sample Collection Time	Sample Collection Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	METHODS FOR ANALYSIS: NWTPH-Dx								COMMENTS	LAB USE
1	MW-16-032515	2	3/25	1220	D	N	G	W	X									
2	MW-38R-032415	2	3/24	1445	A	N	G	W	X									
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished By:	Date/Time: 3/27 0900	Received By:	Date/Time: 3/27/15 1030	Comments and Special Analytical Requirements:
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab: Custody Intact? ☐ Yes ☐ No	Custody Seal No. / BNSF COC No

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

TAL-1001 (0912)

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-48478-1

Login Number: 48478

List Source: TestAmerica Seattle

List Number: 1

Creator: Gamble, Cathy L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	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	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Not requested on COC.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 580-48786-1
Client Project/Site: Skykomish HCC System
Sampling Event: Skykomish

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

Attn: Gerald Portele

Kristine D. Allen

Authorized for release by:
4/21/2015 12:20:06 PM

Kristine Allen, Manager of Project Management
(253)248-4970
kristine.allen@testamericainc.com

Table of Contents

Job ID: 580-48786-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-48786-1

Comments
No additional comments.

Receipt
The sample was received on 4/7/2015 2:35 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1º C.

Receipt
The sample was received on 4/7/2015 2:35 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1º 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.

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

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

TestAmerica Job ID: 580-48786-1

Client Sample ID: After Primary-4615
Date Collected: 04/06/15 12:10
Date Received: 04/07/15 14:35

Lab Sample ID: 580-48786-1
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)	ND		0.024		mg/L		04/17/15 15:24	04/20/15 11:36	1
Motor Oil (>C24-C36)	ND		0.047		mg/L		04/17/15 15:24	04/20/15 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*04/17/15 15:24*	*04/20/15 11:36*	*1*

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

Lab Sample ID: MB 580-187152/1-A
Matrix: Water
Analysis Batch: 187197

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 187152

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025		mg/L		04/17/15 15:24	04/20/15 09:26	1
Motor Oil (>C24-C36)	ND		0.050		mg/L		04/17/15 15:24	04/20/15 09:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*04/17/15 15:24*	*04/20/15 09:26*	*1*

Lab Sample ID: LCS 580-187152/2-A
Matrix: Water
Analysis Batch: 187197

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 187152

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			0.500	0.401		mg/L		80	59 - 120		
Motor Oil (>C24-C36)			0.502	0.462		mg/L		92	71 - 140		

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

Lab Sample ID: LCSD 580-187152/3-A
Matrix: Water
Analysis Batch: 187197

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 187152

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.395		mg/L		79	59 - 120	1	27
Motor Oil (>C24-C36)			0.502	0.459		mg/L		91	71 - 140	1	27

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

Lab Chronicle

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

TestAmerica Job ID: 580-48786-1

Client Sample ID: After Primary-4615
Date Collected: 04/06/15 12:10
Date Received: 04/07/15 14:35

Lab Sample ID: 580-48786-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			187152	04/17/15 15:24	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	187197	04/20/15 11:36	EKK	TAL SEA

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 580-48786-1

Laboratory: TestAmerica Seattle

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-16
California	State Program	9	2901	01-31-17
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-15
US Fish & Wildlife	Federal		LE192332-0	02-28-16
USDA	Federal		P330-11-00222	04-08-17
Washington	State Program	10	C553	02-17-16

Sample Summary

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

TestAmerica Job ID: 580-48786-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-48786-1	After Primary-4615	Water	04/06/15 12:10	04/07/15 14:35

TestAmerica Seattle
5755 8th Street East

Tacoma, WA 98424
phone 253.922.2310 fax 253.922.5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jerry Portele	Site Contact: David Johnson	Date: 4/6/15	COC No:
Farallon Consutling	Tel/Fax: 425-295-0839	Lab Contact: Kristine Allen	Carrier:	____ of ____ COCs
975 5th Avenue Northwest	Analysis Turnaround Time			Job No. Invoice attention to: Bruce Shepard, BNSF
Issaquah, WA 98027	Calendar (C) or Work Days (W) ____			
(425) 295-0800 Phone	TAT if different from Below ____			SDG No.
(425) 295-0850 FAX	☒ 2 weeks			
Project Name: Skykomish HCC System	☐ 1 week			Sampler: JW
Site:	☐ 2 days			
WO #: TT0100-M07	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	NWTPH-Dx w/o silica gel cleanup	Sample Specific Notes:
After Primary- 4615	4/6/15	12:10	Grab	W	2		X	*** See instructions below

580-48786 Chain of Custody

Cooler/TB Dig/IR cor 0.4 unc 0.7 A2 1.1 B 4/7/15
Cooler Dsc 2 Blue/wht @ Lab 1435
Wet/Packs Packing Bubble
w/o

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

2 1

Possible Hazard Identification
■ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ 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 gel cleanup needed for Dx

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Glacier	4/6/15 1400			4/6/15
Relinquished by:		4/6/15 1400	Received by:	TASEH	4/7/15 1100 1400
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 3, dated 04/4/2012

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-48786-1

Login Number: 48786

List Source: TestAmerica Seattle

List Number: 1

Creator: Blankinship, Tom X

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 580-50965-1
Client Project/Site: BNSF Skykomish Ground Water
Sampling Event: Skykomish HCC System

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

Attn: Gerald Portele

Kristine D. Allen

Authorized for release by:
7/15/2015 4:31:14 PM

Kristine Allen, Manager of Project Management
(253)248-4970
kristine.allen@testamericainc.com

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Job ID: 580-50965-1

Laboratory: TestAmerica Seattle

Narrative

Receipt

The samples were received on 6/19/2015 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 1.3º C, 1.4º C, 1.5º C, 5.8º C, 6.1º C and 6.2º C.

GC Semi VOA

Method(s) NWTPH-Dx:: The method blank MB 580-1947484/1-A contained a detection for #2 Diesel (C10-C24) greater than the method detection limit but less than the reporting limit. The result should be considered as an estimate and has been "J" flagged.

Method(s) NWTPH-Dx: In analytical batch 580-194117, the following samples from preparation batch 580-193590 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: MW-4-061815 (580-50965-1) and GW-2-061715 (580-50965-6).

Method(s) NWTPH-Dx: In analytical batch 580-193950, the following samples from preparation batch 580-193590 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: 2A-W-9-061815 (580-50965-2), GW-20-061715 (580-50965-7), 2A-W-41-061715 (580-50965-8), 5-W-15-061815 (580-50965-26) and 2A-W-10-061815 (580-50965-27).

Method(s) NWTPH-Dx: In analytical batch 580-193559, the following samples from preparation batch 580-193443 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: 1B-W-23-0617 (580-50965-3), GW-3-061715 (580-50965-11), 2A-W-42-061715 (580-50965-12) and 1C-W-7-061715 (580-50965-25).

Method(s) NWTPH-Dx: In analytical batch 580-193950, surrogate recovery for the following samples from preparation batch 580-193590 was outside control limits: EW-2A-061715 (580-50965-4), GW-1-061715 (580-50965-5), GW-20-061715 (580-50965-7), 5-W-43-061715 (580-50965-9), GW-3-061715 (580-50965-11), 2A-W-42-061715 (580-50965-12), GW-4-061715 (580-50965-13), 5-W-16-061815 (580-50965-16), 5-W-160-061815 (580-50965-17), 5-W-14-061815 (580-50965-18), 2B-W-4-061815 (580-50965-19), EW-1-061715 (580-50965-20), 1B-W-3-061715 (580-50965-21), 1C-W-1-061715 (580-50965-22), 1C-W-8-061715 (580-50965-23), 1C-W-80-061715 (580-50965-24), 1C-W-7-061715 (580-50965-25), MW-3-061815 (580-50965-28) and 5-W-17-061815 (580-50965-29). Re-extraction and/or re-analysis was performed outside of holding time with acceptable results; therefore, both sets of data have been reported.

Method(s) NWTPH-Dx: In analytical batch 580-194512, the following samples from preparation batch 580-194292 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: GW-1-061715 (580-50965-5), GW-20-061715 (580-50965-7), 5-W-43-061715 (580-50965-9), 5-W-16-061815 (580-50965-16) and MW-3-061815 (580-50965-28).

Method(s) NWTPH-Dx: In analytical batch 580-194117, the #2 Diesel (C10-C24) and Motor Oil (>C24-C36) concentration reported for the following samples from preparation batch 580-193590 is due to the presence of discrete peaks: 5-W-18-061815 (580-50965-15).

Method(s) NWTPH-Dx: In analytical batch 580-194887, the following samples from preparation batch 580-194784 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: GW-3-061715 (580-50965-11), 2A-W-42-061715 (580-50965-12), GW-4-061715 (580-50965-13), EW-1-061715 (580-50965-20), 1B-W-3-061715 (580-50965-21), 1C-W-1-061715 (580-50965-22), 1C-W-8-061715 (580-50965-23), 1C-W-80-061715 (580-50965-24) and 1C-W-7-061715 (580-50965-25).

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

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
Y	The chromatographic response resembles a typical fuel pattern.
X	Surrogate is outside control limits
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Z	The chromatographic response does not resemble a typical fuel pattern.

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: MW-4-061815
Date Collected: 06/18/15 11:00
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-1
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)	0.053	Y	0.024	0.014	mg/L		06/30/15 09:47	07/07/15 12:42	1
Motor Oil (>C24-C36)	0.065	Y	0.047	0.0093	mg/L		06/30/15 09:47	07/07/15 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*50 - 150*	*06/30/15 09:47*	*07/07/15 12:42*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 2A-W-9-061815
Date Collected: 06/18/15 09:45
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-2
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)	0.52	Y	0.024	0.014	mg/L		06/30/15 09:47	07/03/15 18:45	1
Motor Oil (>C24-C36)	0.15	Y	0.047	0.0093	mg/L		06/30/15 09:47	07/03/15 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*50 - 150*	*06/30/15 09:47*	*07/03/15 18:45*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 1B-W-23-0617
Date Collected: 06/17/15 13:00
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-3
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)	0.030	Y	0.024	0.014	mg/L		06/29/15 10:00	06/30/15 14:45	1
Motor Oil (>C24-C36)	0.032	J	0.049	0.0095	mg/L		06/29/15 10:00	06/30/15 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*50 - 150*	*06/29/15 10:00*	*06/30/15 14:45*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: EW-2A-061715
Date Collected: 06/17/15 10:41
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-4
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)	ND		0.024	0.014	mg/L		06/30/15 09:47	07/03/15 19:03	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		06/30/15 09:47	07/03/15 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*32*	*X*	*50 - 150*	*06/30/15 09:47*	*07/03/15 19:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**0.022**	**J H**	0.024	0.014	mg/L		07/08/15 12:44	07/10/15 10:48	1
Motor Oil (>C24-C36)	ND	H	0.047	0.0093	mg/L		07/08/15 12:44	07/10/15 10:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*50 - 150*	*07/08/15 12:44*	*07/10/15 10:48*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: GW-1-061715
Date Collected: 06/17/15 17:28
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-5
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)	0.022	J	0.024	0.014	mg/L		06/30/15 09:47	07/03/15 19:21	1
Motor Oil (>C24-C36)	0.015	J	0.047	0.0093	mg/L		06/30/15 09:47	07/03/15 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*41*	*X*	*50 - 150*	*06/30/15 09:47*	*07/03/15 19:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.045	H Y	0.024	0.014	mg/L		07/08/15 12:44	07/10/15 11:06	1
Motor Oil (>C24-C36)	0.024	J H	0.047	0.0093	mg/L		07/08/15 12:44	07/10/15 11:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*50 - 150*	*07/08/15 12:44*	*07/10/15 11:06*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: GW-2-061715
Date Collected: 06/17/15 16:10
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-6
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)	0.039	Y	0.024	0.014	mg/L		06/30/15 09:47	07/07/15 13:36	1
Motor Oil (>C24-C36)	0.029	J	0.047	0.0093	mg/L		06/30/15 09:47	07/07/15 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*50 - 150*	*06/30/15 09:47*	*07/07/15 13:36*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: GW-20-061715
Date Collected: 06/17/15 16:15
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-7
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)	0.027	Y	0.024	0.014	mg/L		06/30/15 09:47	07/03/15 19:57	1
Motor Oil (>C24-C36)	0.010	J	0.047	0.0093	mg/L		06/30/15 09:47	07/03/15 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*38*	*X*	*50 - 150*	*06/30/15 09:47*	*07/03/15 19:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.071	H Y	0.024	0.014	mg/L		07/08/15 12:44	07/10/15 11:23	1
Motor Oil (>C24-C36)	0.033	J H	0.047	0.0093	mg/L		07/08/15 12:44	07/10/15 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*50 - 150*	*07/08/15 12:44*	*07/10/15 11:23*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 2A-W-41-061715
Date Collected: 06/17/15 14:45
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-8
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)	0.17	Y	0.024	0.014	mg/L		06/30/15 09:47	07/03/15 20:15	1
Motor Oil (>C24-C36)	0.081	Y	0.047	0.0093	mg/L		06/30/15 09:47	07/03/15 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*51*		*50 - 150*	*06/30/15 09:47*	*07/03/15 20:15*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 5-W-43-061715
Date Collected: 06/17/15 17:25
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-9
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)	ND		0.024	0.014	mg/L		06/30/15 09:47	07/03/15 20:51	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		06/30/15 09:47	07/03/15 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*42*	*X*	*50 - 150*	*06/30/15 09:47*	*07/03/15 20:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**0.036**	**H Y**	0.024	0.014	mg/L		07/08/15 12:44	07/10/15 11:41	1
Motor Oil (>C24-C36)	**0.016**	**J H**	0.047	0.0093	mg/L		07/08/15 12:44	07/10/15 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*07/08/15 12:44*	*07/10/15 11:41*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 2A-W-40-061715
Date Collected: 06/17/15 16:05
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-10
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)	ND		0.024	0.014	mg/L		06/30/15 09:47	07/03/15 21:09	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		06/30/15 09:47	07/03/15 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*50 - 150*	*06/30/15 09:47*	*07/03/15 21:09*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: GW-3-061715
Date Collected: 06/17/15 14:40
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-11
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)	0.18	Y	0.024	0.014	mg/L		06/29/15 10:00	06/30/15 15:03	1
Motor Oil (>C24-C36)	0.10	Y	0.047	0.0093	mg/L		06/29/15 10:00	06/30/15 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*45*	*X*	*50 - 150*	*06/29/15 10:00*	*06/30/15 15:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.33	H B Y	0.024	0.014	mg/L		07/14/15 11:10	07/15/15 12:47	1
Motor Oil (>C24-C36)	0.23	H Y	0.048	0.0093	mg/L		07/14/15 11:10	07/15/15 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*07/14/15 11:10*	*07/15/15 12:47*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 2A-W-42-061715
Date Collected: 06/17/15 11:40
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-12
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)	0.077	Y	0.024	0.014	mg/L		06/29/15 10:00	06/30/15 15:21	1
Motor Oil (>C24-C36)	0.056	Y	0.047	0.0093	mg/L		06/29/15 10:00	06/30/15 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*48*	*X*	*50 - 150*	*06/29/15 10:00*	*06/30/15 15:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.15	H B Y	0.024	0.014	mg/L		07/14/15 11:10	07/15/15 13:03	1
Motor Oil (>C24-C36)	0.14	H Y	0.047	0.0093	mg/L		07/14/15 11:10	07/15/15 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*50 - 150*	*07/14/15 11:10*	*07/15/15 13:03*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: GW-4-061715
Date Collected: 06/17/15 09:55
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-13
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)	0.020	J	0.024	0.014	mg/L		06/29/15 10:00	06/30/15 15:39	1
Motor Oil (>C24-C36)	0.012	J	0.047	0.0093	mg/L		06/29/15 10:00	06/30/15 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*45*	*X*	*50 - 150*	*06/29/15 10:00*	*06/30/15 15:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.042	H B Y	0.024	0.014	mg/L		07/14/15 11:10	07/15/15 13:19	1
Motor Oil (>C24-C36)	0.040	J H Y	0.047	0.0093	mg/L		07/14/15 11:10	07/15/15 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*50 - 150*	*07/14/15 11:10*	*07/15/15 13:19*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 5-W-19-061815
Date Collected: 06/18/15 15:00
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-14
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)	ND		0.024	0.014	mg/L		06/30/15 09:47	07/07/15 14:30	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		06/30/15 09:47	07/07/15 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*50 - 150*	*06/30/15 09:47*	*07/07/15 14:30*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 5-W-18-061815
Date Collected: 06/18/15 14:09
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-15
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)	0.43	Z	0.024	0.014	mg/L		06/30/15 09:47	07/07/15 14:48	1
Motor Oil (>C24-C36)	1.4	Z	0.047	0.0093	mg/L		06/30/15 09:47	07/07/15 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*50 - 150*	*06/30/15 09:47*	*07/07/15 14:48*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 5-W-16-061815
Date Collected: 06/18/15 12:18
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-16
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)	0.015	J	0.024	0.014	mg/L		06/30/15 09:47	07/03/15 22:03	1
Motor Oil (>C24-C36)	0.011	J	0.047	0.0093	mg/L		06/30/15 09:47	07/03/15 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*44*	*X*	*50 - 150*	*06/30/15 09:47*	*07/03/15 22:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.035	H Y	0.024	0.014	mg/L		07/08/15 12:44	07/10/15 11:59	1
Motor Oil (>C24-C36)	0.010	J H	0.047	0.0093	mg/L		07/08/15 12:44	07/10/15 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*07/08/15 12:44*	*07/10/15 11:59*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 5-W-160-061815
Date Collected: 06/18/15 10:15
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-17
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)	ND		0.024	0.014	mg/L		06/30/15 09:47	07/03/15 22:21	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		06/30/15 09:47	07/03/15 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*40*	*X*	*50 - 150*	*06/30/15 09:47*	*07/03/15 22:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**0.019**	**J H**	0.024	0.014	mg/L		07/08/15 12:44	07/10/15 12:17	1
Motor Oil (>C24-C36)	ND	H	0.047	0.0093	mg/L		07/08/15 12:44	07/10/15 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*50 - 150*	*07/08/15 12:44*	*07/10/15 12:17*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 5-W-14-061815
Date Collected: 06/18/15 11:01
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-18
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)	ND		0.024	0.014	mg/L		06/30/15 09:47	07/03/15 22:39	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		06/30/15 09:47	07/03/15 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*39*	*X*	*50 - 150*	*06/30/15 09:47*	*07/03/15 22:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**0.015**	**J H**	0.024	0.014	mg/L		07/08/15 12:44	07/10/15 12:35	1
Motor Oil (>C24-C36)	ND	H	0.047	0.0093	mg/L		07/08/15 12:44	07/10/15 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*50 - 150*	*07/08/15 12:44*	*07/10/15 12:35*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 2B-W-4-061815
Date Collected: 06/18/15 09:41
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-19
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)	ND		0.024	0.014	mg/L		06/30/15 09:47	07/03/15 22:57	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		06/30/15 09:47	07/03/15 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*42*	*X*	*50 - 150*	*06/30/15 09:47*	*07/03/15 22:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**0.017**	**J H**	0.024	0.014	mg/L		07/08/15 12:44	07/10/15 13:10	1
Motor Oil (>C24-C36)	ND	H	0.047	0.0093	mg/L		07/08/15 12:44	07/10/15 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*52*		*50 - 150*	*07/08/15 12:44*	*07/10/15 13:10*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: EW-1-061715
Date Collected: 06/17/15 17:50
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-20
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)	0.023	J	0.024	0.014	mg/L		06/29/15 10:00	06/30/15 15:57	1
Motor Oil (>C24-C36)	0.028	J	0.047	0.0093	mg/L		06/29/15 10:00	06/30/15 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*31*	*X*	*50 - 150*	*06/29/15 10:00*	*06/30/15 15:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.043	H B Y	0.024	0.014	mg/L		07/14/15 11:10	07/15/15 13:36	1
Motor Oil (>C24-C36)	0.068	H Y	0.047	0.0093	mg/L		07/14/15 11:10	07/15/15 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*07/14/15 11:10*	*07/15/15 13:36*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 1B-W-3-061715
Date Collected: 06/17/15 16:11
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-21
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)	0.014	J	0.024	0.014	mg/L		06/29/15 10:00	06/30/15 16:15	1
Motor Oil (>C24-C36)	0.023	J	0.047	0.0093	mg/L		06/29/15 10:00	06/30/15 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*34*	*X*	*50 - 150*	*06/29/15 10:00*	*06/30/15 16:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.034	H B Y	0.024	0.014	mg/L		07/14/15 11:10	07/15/15 13:52	1
Motor Oil (>C24-C36)	0.034	J H	0.047	0.0093	mg/L		07/14/15 11:10	07/15/15 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*50 - 150*	*07/14/15 11:10*	*07/15/15 13:52*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 1C-W-1-061715
Date Collected: 06/17/15 14:25
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-22
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)	ND		0.024	0.014	mg/L		06/29/15 10:00	06/30/15 16:51	1
Motor Oil (>C24-C36)	ND		0.048	0.0093	mg/L		06/29/15 10:00	06/30/15 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*33*	*X*	*50 - 150*	*06/29/15 10:00*	*06/30/15 16:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**0.035**	**H B Y**	0.024	0.014	mg/L		07/14/15 11:10	07/15/15 14:08	1
Motor Oil (>C24-C36)	**0.028**	**J H**	0.048	0.0093	mg/L		07/14/15 11:10	07/15/15 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*50 - 150*	*07/14/15 11:10*	*07/15/15 14:08*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 1C-W-8-061715
Date Collected: 06/17/15 11:44
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-23
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)	0.017	J	0.024	0.014	mg/L		06/29/15 10:00	06/30/15 17:09	1
Motor Oil (>C24-C36)	0.0098	J	0.047	0.0093	mg/L		06/29/15 10:00	06/30/15 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*27*	*X*	*50 - 150*	*06/29/15 10:00*	*06/30/15 17:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.063	H B Y	0.024	0.014	mg/L		07/14/15 11:10	07/15/15 14:24	1
Motor Oil (>C24-C36)	0.047	H Y	0.047	0.0093	mg/L		07/14/15 11:10	07/15/15 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*50 - 150*	*07/14/15 11:10*	*07/15/15 14:24*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 1C-W-80-061715
Date Collected: 06/17/15 08:50
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-24
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)	0.016	J	0.024	0.014	mg/L		06/29/15 10:00	06/30/15 17:27	1
Motor Oil (>C24-C36)	0.0094	J	0.048	0.0093	mg/L		06/29/15 10:00	06/30/15 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*32*	*X*	*50 - 150*	*06/29/15 10:00*	*06/30/15 17:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.061	H B Y	0.024	0.014	mg/L		07/14/15 11:10	07/15/15 14:40	1
Motor Oil (>C24-C36)	0.043	J H	0.047	0.0093	mg/L		07/14/15 11:10	07/15/15 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*98*		*50 - 150*	*07/14/15 11:10*	*07/15/15 14:40*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 1C-W-7-061715
Date Collected: 06/17/15 10:02
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-25
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)	0.043	Y	0.024	0.014	mg/L		06/29/15 10:00	06/30/15 17:45	1
Motor Oil (>C24-C36)	0.025	J	0.047	0.0093	mg/L		06/29/15 10:00	06/30/15 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*46*	*X*	*50 - 150*	*06/29/15 10:00*	*06/30/15 17:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.072	H B Y	0.024	0.014	mg/L		07/14/15 11:10	07/15/15 14:57	1
Motor Oil (>C24-C36)	0.053	H Y	0.048	0.0093	mg/L		07/14/15 11:10	07/15/15 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*50 - 150*	*07/14/15 11:10*	*07/15/15 14:57*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 5-W-15-061815
Date Collected: 06/18/15 13:50
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-26
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)	0.13	Y	0.024	0.014	mg/L		06/30/15 09:47	07/03/15 23:15	1
Motor Oil (>C24-C36)	0.10	Y	0.047	0.0093	mg/L		06/30/15 09:47	07/03/15 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*52*		*50 - 150*	*06/30/15 09:47*	*07/03/15 23:15*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 2A-W-10-061815
Date Collected: 06/18/15 09:50
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-27
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)	0.11	Y	0.024	0.014	mg/L		06/30/15 09:47	07/03/15 23:33	1
Motor Oil (>C24-C36)	0.14	Y	0.047	0.0093	mg/L		06/30/15 09:47	07/03/15 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*50 - 150*	*06/30/15 09:47*	*07/03/15 23:33*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: MW-3-061815
Date Collected: 06/18/15 11:25
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-28
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)	ND		0.024	0.014	mg/L		06/30/15 09:47	07/04/15 00:09	1
Motor Oil (>C24-C36)	**0.016**	**J**	0.047	0.0093	mg/L		06/30/15 09:47	07/04/15 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*39*	*X*	*50 - 150*	*06/30/15 09:47*	*07/04/15 00:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**0.027**	**H Y**	0.024	0.014	mg/L		07/08/15 12:44	07/10/15 13:28	1
Motor Oil (>C24-C36)	**0.032**	**J H**	0.047	0.0093	mg/L		07/08/15 12:44	07/10/15 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*50 - 150*	*07/08/15 12:44*	*07/10/15 13:28*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 5-W-17-061815
Date Collected: 06/18/15 13:25
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-29
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)	ND		0.024	0.014	mg/L		06/30/15 09:47	07/04/15 00:27	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		06/30/15 09:47	07/04/15 00:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*43*	*X*	*50 - 150*	*06/30/15 09:47*	*07/04/15 00:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**0.018**	**J H**	0.024	0.014	mg/L		07/08/15 12:44	07/10/15 13:46	1
Motor Oil (>C24-C36)	ND	H	0.047	0.0093	mg/L		07/08/15 12:44	07/10/15 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*07/08/15 12:44*	*07/10/15 13:46*	*1*

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

Lab Sample ID: MB 580-193443/1-A
Matrix: Water
Analysis Batch: 193559

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 193443

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		06/29/15 10:00	06/30/15 13:10	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		06/29/15 10:00	06/30/15 13:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*50 - 150*	*06/29/15 10:00*	*06/30/15 13:10*	*1*

Lab Sample ID: LCS 580-193443/2-A
Matrix: Water
Analysis Batch: 193559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 193443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.310		mg/L		62	59 - 120
Motor Oil (>C24-C36)	0.502	0.359		mg/L		72	71 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*65*		*50 - 150*

Lab Sample ID: LCSD 580-193443/3-A
Matrix: Water
Analysis Batch: 193559

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 193443

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	0.500	0.309		mg/L		62	59 - 120	0	27
Motor Oil (>C24-C36)	0.502	0.358		mg/L		71	71 - 140	0	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*63*		*50 - 150*

Lab Sample ID: MB 580-193590/1-A
Matrix: Water
Analysis Batch: 193950

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 193590

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		06/30/15 09:47	07/03/15 17:33	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		06/30/15 09:47	07/03/15 17:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*50 - 150*	*06/30/15 09:47*	*07/03/15 17:33*	*1*

Lab Sample ID: LCS 580-193590/2-A
Matrix: Water
Analysis Batch: 193950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 193590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.341		mg/L		68	59 - 120
Motor Oil (>C24-C36)	0.502	0.359		mg/L		72	71 - 140

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

Lab Sample ID: LCS 580-193590/2-A
Matrix: Water
Analysis Batch: 193950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 193590

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	67		50 - 150

Lab Sample ID: LCSD 580-193590/3-A
Matrix: Water
Analysis Batch: 193950

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 193590

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.394		mg/L		79	59 - 120	15	27
Motor Oil (>C24-C36)			0.502	0.420		mg/L		84	71 - 140	15	27

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	77		50 - 150

Lab Sample ID: MB 580-194292/1-A
Matrix: Water
Analysis Batch: 194512

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 194292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		07/08/15 12:44	07/10/15 10:30	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		07/08/15 12:44	07/10/15 10:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150	07/08/15 12:44	07/10/15 10:30	1

Lab Sample ID: LCS 580-194292/2-A
Matrix: Water
Analysis Batch: 194512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 194292

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)			0.500	0.546		mg/L		109	59 - 120
Motor Oil (>C24-C36)			0.502	0.575		mg/L		115	71 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	103		50 - 150

Lab Sample ID: LCSD 580-194292/3-A
Matrix: Water
Analysis Batch: 194512

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 194292

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.500		mg/L		100	59 - 120	9	27
Motor Oil (>C24-C36)			0.502	0.531		mg/L		106	71 - 140	8	27

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

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

Lab Sample ID: MB 580-194784/1-A
Matrix: Water
Analysis Batch: 194887

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 194784

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.0157	J	0.025	0.015	mg/L		07/14/15 11:10	07/15/15 10:21	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		07/14/15 11:10	07/15/15 10:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*50 - 150*	*07/14/15 11:10*	*07/15/15 10:21*	*1*

Lab Sample ID: LCS 580-194784/2-A
Matrix: Water
Analysis Batch: 194887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 194784

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			0.500	0.484		mg/L		97	59 - 120		
Motor Oil (>C24-C36)			0.502	0.530		mg/L		106	71 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*101*		*50 - 150*

Lab Sample ID: LCSD 580-194784/3-A
Matrix: Water
Analysis Batch: 194887

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 194784

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.505		mg/L		101	59 - 120	4	27
Motor Oil (>C24-C36)			0.502	0.568		mg/L		113	71 - 140	7	27

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

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: MW-4-061815
Lab Sample ID: 580-50965-1
Date Collected: 06/18/15 11:00
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			193590	06/30/15 09:47	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	194117	07/07/15 12:42	EKK	TAL SEA

Client Sample ID: 2A-W-9-061815
Lab Sample ID: 580-50965-2
Date Collected: 06/18/15 09:45
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			193590	06/30/15 09:47	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193950	07/03/15 18:45	EKK	TAL SEA

Client Sample ID: 1B-W-23-0617
Lab Sample ID: 580-50965-3
Date Collected: 06/17/15 13:00
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			193443	06/29/15 10:00	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193559	06/30/15 14:45	CGM	TAL SEA

Client Sample ID: EW-2A-061715
Lab Sample ID: 580-50965-4
Date Collected: 06/17/15 10:41
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			193590	06/30/15 09:47	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193950	07/03/15 19:03	EKK	TAL SEA
Total/NA	Prep	3510C	RE		194292	07/08/15 12:44	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	194512	07/10/15 10:48	EKK	TAL SEA

Client Sample ID: GW-1-061715
Lab Sample ID: 580-50965-5
Date Collected: 06/17/15 17:28
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			193590	06/30/15 09:47	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193950	07/03/15 19:21	EKK	TAL SEA
Total/NA	Prep	3510C	RE		194292	07/08/15 12:44	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	194512	07/10/15 11:06	EKK	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: GW-2-061715
Lab Sample ID: 580-50965-6
Date Collected: 06/17/15 16:10
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			193590	06/30/15 09:47	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	194117	07/07/15 13:36	EKK	TAL SEA

Client Sample ID: GW-20-061715
Lab Sample ID: 580-50965-7
Date Collected: 06/17/15 16:15
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			193590	06/30/15 09:47	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193950	07/03/15 19:57	EKK	TAL SEA
Total/NA	Prep	3510C	RE		194292	07/08/15 12:44	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	194512	07/10/15 11:23	EKK	TAL SEA

Client Sample ID: 2A-W-41-061715
Lab Sample ID: 580-50965-8
Date Collected: 06/17/15 14:45
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			193590	06/30/15 09:47	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193950	07/03/15 20:15	EKK	TAL SEA

Client Sample ID: 5-W-43-061715
Lab Sample ID: 580-50965-9
Date Collected: 06/17/15 17:25
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			193590	06/30/15 09:47	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193950	07/03/15 20:51	EKK	TAL SEA
Total/NA	Prep	3510C	RE		194292	07/08/15 12:44	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	194512	07/10/15 11:41	EKK	TAL SEA

Client Sample ID: 2A-W-40-061715
Lab Sample ID: 580-50965-10
Date Collected: 06/17/15 16:05
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			193590	06/30/15 09:47	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193950	07/03/15 21:09	EKK	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: GW-3-061715
Lab Sample ID: 580-50965-11
Date Collected: 06/17/15 14:40
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	RE		194784	07/14/15 11:10	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	194887	07/15/15 12:47	EKK	TAL SEA
Total/NA	Prep	3510C			193443	06/29/15 10:00	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193559	06/30/15 15:03	CGM	TAL SEA

Client Sample ID: 2A-W-42-061715
Lab Sample ID: 580-50965-12
Date Collected: 06/17/15 11:40
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	RE		194784	07/14/15 11:10	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	194887	07/15/15 13:03	EKK	TAL SEA
Total/NA	Prep	3510C			193443	06/29/15 10:00	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193559	06/30/15 15:21	CGM	TAL SEA

Client Sample ID: GW-4-061715
Lab Sample ID: 580-50965-13
Date Collected: 06/17/15 09:55
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	RE		194784	07/14/15 11:10	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	194887	07/15/15 13:19	EKK	TAL SEA
Total/NA	Prep	3510C			193443	06/29/15 10:00	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193559	06/30/15 15:39	CGM	TAL SEA

Client Sample ID: 5-W-19-061815
Lab Sample ID: 580-50965-14
Date Collected: 06/18/15 15:00
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			193590	06/30/15 09:47	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	194117	07/07/15 14:30	EKK	TAL SEA

Client Sample ID: 5-W-18-061815
Lab Sample ID: 580-50965-15
Date Collected: 06/18/15 14:09
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			193590	06/30/15 09:47	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	194117	07/07/15 14:48	EKK	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 5-W-16-061815
Date Collected: 06/18/15 12:18
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			193590	06/30/15 09:47	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193950	07/03/15 22:03	EKK	TAL SEA
Total/NA	Prep	3510C	RE		194292	07/08/15 12:44	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	194512	07/10/15 11:59	EKK	TAL SEA

Client Sample ID: 5-W-160-061815
Date Collected: 06/18/15 10:15
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			193590	06/30/15 09:47	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193950	07/03/15 22:21	EKK	TAL SEA
Total/NA	Prep	3510C	RE		194292	07/08/15 12:44	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	194512	07/10/15 12:17	EKK	TAL SEA

Client Sample ID: 5-W-14-061815
Date Collected: 06/18/15 11:01
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			193590	06/30/15 09:47	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193950	07/03/15 22:39	EKK	TAL SEA
Total/NA	Prep	3510C	RE		194292	07/08/15 12:44	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	194512	07/10/15 12:35	EKK	TAL SEA

Client Sample ID: 2B-W-4-061815
Date Collected: 06/18/15 09:41
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			193590	06/30/15 09:47	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193950	07/03/15 22:57	EKK	TAL SEA
Total/NA	Prep	3510C	RE		194292	07/08/15 12:44	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	194512	07/10/15 13:10	EKK	TAL SEA

Client Sample ID: EW-1-061715
Date Collected: 06/17/15 17:50
Date Received: 06/19/15 15:49

Lab Sample ID: 580-50965-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	RE		194784	07/14/15 11:10	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	194887	07/15/15 13:36	EKK	TAL SEA
Total/NA	Prep	3510C			193443	06/29/15 10:00	DCC	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: EW-1-061715

Lab Sample ID: 580-50965-20

Date Collected: 06/17/15 17:50
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Dx		1	193559	06/30/15 15:57	CGM	TAL SEA

Client Sample ID: 1B-W-3-061715

Lab Sample ID: 580-50965-21

Date Collected: 06/17/15 16:11
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	RE		194784	07/14/15 11:10	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	194887	07/15/15 13:52	EKK	TAL SEA
Total/NA	Prep	3510C			193443	06/29/15 10:00	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193559	06/30/15 16:15	CGM	TAL SEA

Client Sample ID: 1C-W-1-061715

Lab Sample ID: 580-50965-22

Date Collected: 06/17/15 14:25
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	RE		194784	07/14/15 11:10	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	194887	07/15/15 14:08	EKK	TAL SEA
Total/NA	Prep	3510C			193443	06/29/15 10:00	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193559	06/30/15 16:51	CGM	TAL SEA

Client Sample ID: 1C-W-8-061715

Lab Sample ID: 580-50965-23

Date Collected: 06/17/15 11:44
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	RE		194784	07/14/15 11:10	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	194887	07/15/15 14:24	EKK	TAL SEA
Total/NA	Prep	3510C			193443	06/29/15 10:00	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193559	06/30/15 17:09	CGM	TAL SEA

Client Sample ID: 1C-W-80-061715

Lab Sample ID: 580-50965-24

Date Collected: 06/17/15 08:50
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	RE		194784	07/14/15 11:10	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	194887	07/15/15 14:40	EKK	TAL SEA
Total/NA	Prep	3510C			193443	06/29/15 10:00	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193559	06/30/15 17:27	CGM	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Client Sample ID: 1C-W-7-061715

Lab Sample ID: 580-50965-25
Date Collected: 06/17/15 10:02
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	RE		194784	07/14/15 11:10	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	194887	07/15/15 14:57	EKK	TAL SEA
Total/NA	Prep	3510C			193443	06/29/15 10:00	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193559	06/30/15 17:45	CGM	TAL SEA

Client Sample ID: 5-W-15-061815

Lab Sample ID: 580-50965-26
Date Collected: 06/18/15 13:50
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			193590	06/30/15 09:47	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193950	07/03/15 23:15	EKK	TAL SEA

Client Sample ID: 2A-W-10-061815

Lab Sample ID: 580-50965-27
Date Collected: 06/18/15 09:50
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			193590	06/30/15 09:47	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193950	07/03/15 23:33	EKK	TAL SEA

Client Sample ID: MW-3-061815

Lab Sample ID: 580-50965-28
Date Collected: 06/18/15 11:25
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			193590	06/30/15 09:47	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193950	07/04/15 00:09	EKK	TAL SEA
Total/NA	Prep	3510C	RE		194292	07/08/15 12:44	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	194512	07/10/15 13:28	EKK	TAL SEA

Client Sample ID: 5-W-17-061815

Lab Sample ID: 580-50965-29
Date Collected: 06/18/15 13:25
Matrix: Water
Date Received: 06/19/15 15:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			193590	06/30/15 09:47	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	193950	07/04/15 00:27	EKK	TAL SEA
Total/NA	Prep	3510C	RE		194292	07/08/15 12:44	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	194512	07/10/15 13:46	EKK	TAL SEA

Laboratory References:

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

Certification Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Laboratory: TestAmerica Seattle

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-16
California	State Program	9	2901	01-31-17
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-15
US Fish & Wildlife	Federal		LE192332-0	02-28-16
USDA	Federal		P330-11-00222	04-08-17
Washington	State Program	10	C553	02-17-16

Sample Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-50965-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-50965-1	MW-4-061815	Water	06/18/15 11:00	06/19/15 15:49
580-50965-2	2A-W-9-061815	Water	06/18/15 09:45	06/19/15 15:49
580-50965-3	1B-W-23-0617	Water	06/17/15 13:00	06/19/15 15:49
580-50965-4	EW-2A-061715	Water	06/17/15 10:41	06/19/15 15:49
580-50965-5	GW-1-061715	Water	06/17/15 17:28	06/19/15 15:49
580-50965-6	GW-2-061715	Water	06/17/15 16:10	06/19/15 15:49
580-50965-7	GW-20-061715	Water	06/17/15 16:15	06/19/15 15:49
580-50965-8	2A-W-41-061715	Water	06/17/15 14:45	06/19/15 15:49
580-50965-9	5-W-43-061715	Water	06/17/15 17:25	06/19/15 15:49
580-50965-10	2A-W-40-061715	Water	06/17/15 16:05	06/19/15 15:49
580-50965-11	GW-3-061715	Water	06/17/15 14:40	06/19/15 15:49
580-50965-12	2A-W-42-061715	Water	06/17/15 11:40	06/19/15 15:49
580-50965-13	GW-4-061715	Water	06/17/15 09:55	06/19/15 15:49
580-50965-14	5-W-19-061815	Water	06/18/15 15:00	06/19/15 15:49
580-50965-15	5-W-18-061815	Water	06/18/15 14:09	06/19/15 15:49
580-50965-16	5-W-16-061815	Water	06/18/15 12:18	06/19/15 15:49
580-50965-17	5-W-160-061815	Water	06/18/15 10:15	06/19/15 15:49
580-50965-18	5-W-14-061815	Water	06/18/15 11:01	06/19/15 15:49
580-50965-19	2B-W-4-061815	Water	06/18/15 09:41	06/19/15 15:49
580-50965-20	EW-1-061715	Water	06/17/15 17:50	06/19/15 15:49
580-50965-21	1B-W-3-061715	Water	06/17/15 16:11	06/19/15 15:49
580-50965-22	1C-W-1-061715	Water	06/17/15 14:25	06/19/15 15:49
580-50965-23	1C-W-8-061715	Water	06/17/15 11:44	06/19/15 15:49
580-50965-24	1C-W-80-061715	Water	06/17/15 08:50	06/19/15 15:49
580-50965-25	1C-W-7-061715	Water	06/17/15 10:02	06/19/15 15:49
580-50965-26	5-W-15-061815	Water	06/18/15 13:50	06/19/15 15:49
580-50965-27	2A-W-10-061815	Water	06/18/15 09:50	06/19/15 15:49
580-50965-28	MW-3-061815	Water	06/18/15 11:25	06/19/15 15:49
580-50965-29	5-W-17-061815	Water	06/18/15 13:25	06/19/15 15:49

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: TEST AMERICA
Project Manager: CHRIS ALLEN
Address: 5755 8TH ST EAST
Phone: 253 922 2310
City/State/ZIP: TACOMA, WA 98424
Fax: 253 922 5047

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WASHINGTON
Project City: SKYKOMISH
BNSF Project Name: BNSF SKYKOMISH GROUNDWATER
BNSF Contact: BRUCE SHEPARD
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: FARALLON CONSULTING
Project Number: 083-043
Project Manager: JERRY PORTELE
Address: 975 5TH AVE NW
Email: JPORTELE@FARALLONCONSULTING.COM
City/State/ZIP: ISSAQUAH WA 98027
Phone: 425-295-0800
Fax: 425-295-0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 2-day Rush
- [ ] 3-day Rush
- [ ] 5- to 8-day Rush
- [x] Standard 10-Day
- [ ] Other

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables?
- [ ] EDD Req, Format?

METHODS FOR ANALYSIS

NWTPH-Dx

SAMPLE INFORMATION

	Sample Identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/ Grab)	Matrix		COMMENTS	LAB USE
1	MW-4-061815	2	6/18	1100	DK	N	G	W	x		
2	2A-W-9-061815		6/18	0945	DK				x		
3	1B-W-23-061715		6/17	1300	DK				x		
4	EW-2A-061715		6/17	1041	DK				x		
5	GW-1-061715		6/17	1728	DK				x		
6	GW-2-061715		6/17	1610	DK				x		
7	GW-20-061715		6/17	1615	DK				x		
8	2A-W-41-061715		6/17	1445	DK				x		
9	5-W-43-061715		6/17	1725	AT				x		
10	2A-W-40-061715		6/17	1605	AT				x		
11	GW-3-061715		6/17	1440	AT				x		
12	2A-W-42-061715		6/17	1140	AT				x		
13	GW-4-061715		6/17	0955	AT				x		
14	5-W-19-061815		6/18	1500	AT				x		
15											

	Date/Time:	Received By:	Date/Time:
Relinquished By:	6/19 0845	Tom Blunt	6/19/15 0845
Relinquished By:		Received By:	
Relinquished By:		Received By:	
Received by Laboratory:		Lab Remarks:	

Comments and Special Analytical Requirements:

al No. | BNSF COC No

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONS

TAL-1001 (0912)

580-50965 Chain of Custody

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6/22/2015

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: TEST AMERICA
Address: 5755 8TH & ST EAST
City/State/ZIP: TACOMA, WA 98424
Project Manager: CHRIS ALLEN
Phone: 253 922 2310
Fax: 253 922 5047

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WASHINGTON
Project City: SKYKOMISH
BNSF Project Name: BNSF SKYKOMISH GW
BNSF Contact: BRUCE SHEPARD
BNSF Work Order No.: ~~TD100-1107~~

CONSULTANT INFORMATION

Company: FARALLON CONSULTING
Address: 975 5TH AVE NW
City/State/ZIP: ISSAQUAH WA 98027
Project Number: 683-043
Project Manager: JERRY PORTELE
Email: JPORTELE@FARALLONCONSULTING.COM
Phone: 425-295-0800 Fax: 425-295-0850

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 2-day Rush
- [ ] 3-day Rush
- [ ] 5- to 8-day Rush
- [x] Standard 10-Day
- [ ] Other

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables?
- [ ] EDD Req, Format?

SAMPLE INFORMATION

	Sample Identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	METHODS: NWTPH-DX	LAB USE
1	5-W-18-061815	2	6/18	1409	JK	N	G	W	X	
2	5-W-16-061815		6/18	1218	JK				X	
3	5-W-160-061815		6/18	1015	JK				X	
4	5-W-14-061815		6/18	1101	JK				X	
5	2B-W-4-061815		6/18	0941	JK				X	
6	EW-1-061715		6/17	1750	JK				X	
7	1B-W-3-061715		6/17	1611	JK				X	
8	1C-W-1-061715		6/17	1425	JK				X	
9	1C-W-8-061715		6/17	0811	JK				X	TIME=1149
10	1C-W-80-061715		6/17	0850	JK				X	
11	1C-W-7-061715		6/17	1002	JK				X	
12	5-W-15-061815		6/18	1350	DK				X	
13	2A-W-10-061815		6/18	0950	AT				X	
14	MW-3-061815		6/18	1125	AT				X	
15	5-W-17-061815		6/18	1325	AT				X	

(A2) Cooler/TB Dig/IR cor 1.3 w/o unc 2.6
Cooler Dsc LgGrBlu @Lab
Wet/Packs Packing bub
slide

(A2) Cooler/TB Dig/IR cor 6.1 w/o unc 6.8
Cooler Dsc LgRed/wh @Lab
Wet/Packs Packing bub

(A2) Cooler/TB Dig/IR cor 1.4 w/o unc 2.1
Cooler Dsc LgBlu/wh @Lab
Wet/Packs Packing bub

(A2) Cooler/TB Dig/IR cor 6.2 w/o unc 6.9
Cooler Dsc LgGrn/blu @Lab
Wet/Packs Packing bub

(A2) Cooler/TB Dig/IR cor w/o unc 2.2
Cooler Dsc LgBlu/wh @Lab
Wet/Packs Packing bub

(A2) Cooler/TB Dig/IR cor 5.8 w/o unc 6.5
Cooler Dsc LgGrn/blu @Lab
Wet/Packs Packing bub

Relinquished By:	Date/Time: 6/19 0845	Received By: Tom Blanton	Date/Time: 6/19/15 0845
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Received by Laboratory:	Date/Time:	Remarks:	Lab: Custody Intact? ☐ Yes ☐ No

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES
DUPLICATE - CONSULTANT
(0912)

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-50965-1

Login Number: 50965
List Number: 1
Creator: Jonas, Wendy L

List Source: TestAmerica Seattle

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 580-53745-1
Client Project/Site: BNSF Skykomish Ground Water

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

Attn: Gerald Portele

Kristine D. Allen

Authorized for release by:
10/15/2015 5:48:44 PM

Kristine Allen, Manager of Project Management
(253)248-4970
kristine.allen@testamericainc.com

Table of Contents

Job ID: 580-53745-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-53745-1

Comments
No additional comments.

Receipt
The samples were received on 9/25/2015 12:58 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 13 coolers at receipt time were 0.5º C, 4.3º C, 4.4º C, 5.0º C, 5.5º C, 5.8º C, 5.9º C, 5.9º C, 6.3º C, 6.8º C, 7.1º C, 7.5º C and 9.2º C.

Receipt Exceptions

3 of the 13 coolers were received out of temperature. These coolers were received at 9.2C, 6.8C, & 7.5C. It was observed by the courier at the time of sample pick up that ice was being added to the coolers containing samples from the 24th.

GC Semi VOA
Method(s) NWTPH-Dx: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 580-202415 recovered outside control limits for the following analytes: Motor Oil (>C24-C36). Individual recoveries were within acceptance limits therefore data will be flagged and reported.

Method(s) NWTPH-Dx: The method blank for preparation batch 580-202484 and analytical batch 580-202605 contained #2 Diesel (C10-C24) and Motor Oil (>C24-C36) AffectedAnalyte> above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed.

Method(s) 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: 5-W-54-092315 (580-53745-51), 5-W-55-092315 (580-53745-52), 5-W-56-092315 (580-53745-53), 1B-W-2-092415 (580-53745-55), 1B-W-3-092415 (580-53745-56), 1C-W-4-092315 (580-53745-58) and MW-38R-092415 (580-53745-60).

Method(s) 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-1-092315 (580-53745-1), 1C-W-7-092315 (580-53745-2), 1C-W-8-092315 (580-53745-3), 1C-W-80-092315 (580-53745-4), 1B-W-23-092415 (580-53745-5), 2A-W-40-092415 (580-53745-6), 2A-W-41-092415 (580-53745-7), 2A-W-42-092315 (580-53745-8), 2A-W-10-092315 (580-53745-9), 2A-W-9-092415 (580-53745-10), 2A-W-90-092415 (580-53745-11), 2B-W-4-09242015 (580-53745-12), MW-3-09242015 (580-53745-13), MW-4-09232015 (580-53745-14), EW-1-092415 (580-53745-15), EW-2A-092315 (580-53745-16), GW-1-092415 (580-53745-17) and GW-10-092415 (580-53745-18).

Method(s) 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: GW-3-092415 (580-53745-21), GW-30-092415 (580-53745-22), GW-4-092315 (580-53745-23), S2-AD-092215 (580-53745-28), S2-BD-092215 (580-53745-30), S3-BD-092215 (580-53745-34), S3-CU-092215 (580-53745-37), S4-AU-092215 (580-53745-39) and S4-BD-092215 (580-53745-40).

Method(s) NWTPH-Dx: Surrogate recovery for the following samples was outside control limits: S3-AD-092215 (580-53745-32), S3-AU-092215 (580-53745-33) and S3-CD-092215 (580-53745-36). Re-extraction and/or re-analysis was performed with concurring results. The re-extract analysis has been reported.

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

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
*	RPD of the LCS and LCSD exceeds the control limits
B	Compound was found in the blank and sample.

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 1C-W-1-092315
Date Collected: 09/23/15 14:55
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-1
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)	0.034		0.024	0.014	mg/L		10/01/15 12:52	10/09/15 18:28	1
Motor Oil (>C24-C36)	0.025	J	0.047	0.0093	mg/L		10/01/15 12:52	10/09/15 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*50 - 150*	*10/01/15 12:52*	*10/09/15 18:28*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 1C-W-7-092315
Date Collected: 09/23/15 14:46
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-2
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)	0.14		0.024	0.014	mg/L		10/01/15 12:52	10/09/15 18:46	1
Motor Oil (>C24-C36)	0.053		0.047	0.0093	mg/L		10/01/15 12:52	10/09/15 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*50 - 150*	*10/01/15 12:52*	*10/09/15 18:46*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 1C-W-8-092315
Date Collected: 09/23/15 10:05
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-3
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)	0.057		0.024	0.014	mg/L		10/01/15 12:52	10/09/15 19:03	1
Motor Oil (>C24-C36)	0.043	J	0.047	0.0093	mg/L		10/01/15 12:52	10/09/15 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*50 - 150*	*10/01/15 12:52*	*10/09/15 19:03*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 1C-W-80-092315
Date Collected: 09/23/15 10:08
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-4
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)	0.042		0.024	0.014	mg/L		10/01/15 12:52	10/09/15 19:21	1
Motor Oil (>C24-C36)	0.033	J	0.048	0.0093	mg/L		10/01/15 12:52	10/09/15 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*50 - 150*	*10/01/15 12:52*	*10/09/15 19:21*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 1B-W-23-092415
Date Collected: 09/24/15 13:44
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-5
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)	0.060		0.024	0.014	mg/L		10/01/15 12:52	10/09/15 19:38	1
Motor Oil (>C24-C36)	0.086		0.048	0.0093	mg/L		10/01/15 12:52	10/09/15 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*50 - 150*	*10/01/15 12:52*	*10/09/15 19:38*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 2A-W-40-092415
Date Collected: 09/24/15 16:09
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-6
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)	**0.014**	**J**	0.024	0.014	mg/L		10/01/15 12:52	10/09/15 19:56	1
Motor Oil (>C24-C36)	ND		0.048	0.0093	mg/L		10/01/15 12:52	10/09/15 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*50 - 150*	*10/01/15 12:52*	*10/09/15 19:56*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 2A-W-41-092415
Date Collected: 09/24/15 15:29
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-7
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)	0.23		0.024	0.014	mg/L		10/01/15 12:52	10/09/15 20:14	1
Motor Oil (>C24-C36)	0.14		0.048	0.0093	mg/L		10/01/15 12:52	10/09/15 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*50 - 150*	*10/01/15 12:52*	*10/09/15 20:14*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 2A-W-42-092315
Date Collected: 09/23/15 16:04
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-8
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)	0.10		0.024	0.014	mg/L		10/01/15 12:52	10/09/15 20:49	1
Motor Oil (>C24-C36)	0.075		0.048	0.0093	mg/L		10/01/15 12:52	10/09/15 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*50 - 150*	*10/01/15 12:52*	*10/09/15 20:49*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 2A-W-10-092315
Date Collected: 09/23/15 16:20
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-9
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)	0.15		0.024	0.014	mg/L		10/01/15 12:52	10/09/15 21:07	1
Motor Oil (>C24-C36)	0.26		0.047	0.0093	mg/L		10/01/15 12:52	10/09/15 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*50 - 150*	*10/01/15 12:52*	*10/09/15 21:07*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 2A-W-9-092415
Date Collected: 09/24/15 10:15
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-10
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)	0.61		0.024	0.014	mg/L		10/01/15 12:52	10/09/15 21:25	1
Motor Oil (>C24-C36)	0.32		0.047	0.0093	mg/L		10/01/15 12:52	10/09/15 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*50 - 150*	*10/01/15 12:52*	*10/09/15 21:25*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 2A-W-90-092415
Date Collected: 09/24/15 10:20
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-11
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)	0.71		0.024	0.014	mg/L		10/01/15 12:52	10/09/15 21:42	1
Motor Oil (>C24-C36)	0.38		0.047	0.0093	mg/L		10/01/15 12:52	10/09/15 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*50 - 150*	*10/01/15 12:52*	*10/09/15 21:42*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 2B-W-4-09242015
Date Collected: 09/24/15 08:58
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-12
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)	0.015	J	0.024	0.014	mg/L		10/01/15 12:52	10/09/15 22:00	1
Motor Oil (>C24-C36)	0.011	J	0.047	0.0093	mg/L		10/01/15 12:52	10/09/15 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*50 - 150*	*10/01/15 12:52*	*10/09/15 22:00*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: MW-3-09242015
Date Collected: 09/24/15 09:09
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-13
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)	0.034		0.024	0.014	mg/L		10/01/15 12:52	10/09/15 22:18	1
Motor Oil (>C24-C36)	0.046	J	0.047	0.0093	mg/L		10/01/15 12:52	10/09/15 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*50 - 150*	*10/01/15 12:52*	*10/09/15 22:18*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: MW-4-09232015
Date Collected: 09/23/15 15:15
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-14
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)	0.25		0.024	0.014	mg/L		10/01/15 12:52	10/09/15 22:35	1
Motor Oil (>C24-C36)	0.17		0.048	0.0093	mg/L		10/01/15 12:52	10/09/15 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*50 - 150*	*10/01/15 12:52*	*10/09/15 22:35*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: EW-1-092415
Date Collected: 09/24/15 17:00
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-15
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)	0.049		0.024	0.014	mg/L		10/01/15 12:52	10/09/15 22:53	1
Motor Oil (>C24-C36)	0.038	J	0.047	0.0093	mg/L		10/01/15 12:52	10/09/15 22:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*50 - 150*	*10/01/15 12:52*	*10/09/15 22:53*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: EW-2A-092315
Date Collected: 09/23/15 11:24
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-16
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)	0.017	J	0.024	0.014	mg/L		10/01/15 12:52	10/09/15 23:11	1
Motor Oil (>C24-C36)	0.027	J	0.047	0.0093	mg/L		10/01/15 12:52	10/09/15 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*50 - 150*	*10/01/15 12:52*	*10/09/15 23:11*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: GW-1-092415
Date Collected: 09/24/15 16:12
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-17
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)	0.029		0.024	0.014	mg/L		10/01/15 12:52	10/09/15 23:28	1
Motor Oil (>C24-C36)	0.028	J	0.047	0.0093	mg/L		10/01/15 12:52	10/09/15 23:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*50 - 150*	*10/01/15 12:52*	*10/09/15 23:28*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: GW-10-092415
Date Collected: 09/24/15 16:15
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-18
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)	0.035		0.024	0.014	mg/L		10/01/15 12:52	10/10/15 00:04	1
Motor Oil (>C24-C36)	0.044	J	0.047	0.0093	mg/L		10/01/15 12:52	10/10/15 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*50 - 150*	*10/01/15 12:52*	*10/10/15 00:04*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: GW-2-092415
Date Collected: 09/24/15 14:45
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-19
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)	0.21		0.024	0.014	mg/L		10/01/15 12:52	10/10/15 00:22	1
Motor Oil (>C24-C36)	0.058		0.047	0.0093	mg/L		10/01/15 12:52	10/10/15 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*50 - 150*	*10/01/15 12:52*	*10/10/15 00:22*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: GW-20-092415
Date Collected: 09/24/15 14:50
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-20
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)	**0.28**	**J**	0.47	0.28	mg/L		10/01/15 12:52	10/10/15 00:39	20
Motor Oil (>C24-C36)	ND		0.95	0.19	mg/L		10/01/15 12:52	10/10/15 00:39	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*10/01/15 12:52*	*10/10/15 00:39*	*20*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: GW-3-092415
Date Collected: 09/24/15 12:19
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-21
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)	0.18		0.024	0.014	mg/L		10/06/15 12:12	10/13/15 12:01	1
Motor Oil (>C24-C36)	0.093		0.047	0.0093	mg/L		10/06/15 12:12	10/13/15 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*50 - 150*	*10/06/15 12:12*	*10/13/15 12:01*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: GW-30-092415
Date Collected: 09/24/15 12:20
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-22
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)	0.17		0.024	0.014	mg/L		10/06/15 12:12	10/13/15 12:21	1
Motor Oil (>C24-C36)	0.093		0.047	0.0093	mg/L		10/06/15 12:12	10/13/15 12:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*50 - 150*	*10/06/15 12:12*	*10/13/15 12:21*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: GW-4-092315
Date Collected: 09/23/15 12:39
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-23
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)	0.044		0.024	0.014	mg/L		10/06/15 12:12	10/13/15 12:42	1
Motor Oil (>C24-C36)	0.045	J	0.047	0.0093	mg/L		10/06/15 12:12	10/13/15 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*50 - 150*	*10/06/15 12:12*	*10/13/15 12:42*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S1-AD-092215
Date Collected: 09/22/15 13:52
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-24
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)	0.017	J	0.025	0.015	mg/L		10/06/15 12:12	10/13/15 13:02	1
Motor Oil (>C24-C36)	0.024	J	0.050	0.0099	mg/L		10/06/15 12:12	10/13/15 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*50 - 150*	*10/06/15 12:12*	*10/13/15 13:02*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S1-AU-092215
Date Collected: 09/22/15 14:23
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-25
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)	0.019	J	0.026	0.015	mg/L		10/06/15 12:12	10/13/15 13:23	1
Motor Oil (>C24-C36)	0.013	J	0.052	0.010	mg/L		10/06/15 12:12	10/13/15 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*50 - 150*	*10/06/15 12:12*	*10/13/15 13:23*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S1-BD-092215
Date Collected: 09/22/15 13:45
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-26
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)	**0.016**	**J**	0.026	0.015	mg/L		10/06/15 12:12	10/13/15 13:44	1
Motor Oil (>C24-C36)	ND		0.052	0.010	mg/L		10/06/15 12:12	10/13/15 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*51*		*50 - 150*	*10/06/15 12:12*	*10/13/15 13:44*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S1-BU-092215
Date Collected: 09/22/15 14:10
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-27
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)	0.017	J	0.026	0.015	mg/L		10/06/15 12:12	10/13/15 14:05	1
Motor Oil (>C24-C36)	0.017	J	0.052	0.010	mg/L		10/06/15 12:12	10/13/15 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*50 - 150*	*10/06/15 12:12*	*10/13/15 14:05*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S2-AD-092215
Date Collected: 09/22/15 15:12
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-28
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)	0.029		0.026	0.015	mg/L		10/06/15 12:12	10/13/15 14:46	1
Motor Oil (>C24-C36)	0.018	J	0.051	0.010	mg/L		10/06/15 12:12	10/13/15 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*50 - 150*	*10/06/15 12:12*	*10/13/15 14:46*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S2-AU-092215
Date Collected: 09/22/15 15:40
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-29
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)	0.020	J	0.025	0.015	mg/L		10/06/15 12:12	10/13/15 15:07	1
Motor Oil (>C24-C36)	0.017	J	0.051	0.010	mg/L		10/06/15 12:12	10/13/15 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*50 - 150*	*10/06/15 12:12*	*10/13/15 15:07*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S2-BD-092215
Date Collected: 09/22/15 14:50
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-30
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)	0.025		0.025	0.015	mg/L		10/06/15 12:12	10/13/15 15:28	1
Motor Oil (>C24-C36)	0.019	J	0.051	0.010	mg/L		10/06/15 12:12	10/13/15 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*50 - 150*	*10/06/15 12:12*	*10/13/15 15:28*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S2-BU-092215
Date Collected: 09/22/15 15:15
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-31
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)	0.038		0.025	0.015	mg/L		10/06/15 12:12	10/13/15 15:49	1
Motor Oil (>C24-C36)	0.021	J	0.051	0.010	mg/L		10/06/15 12:12	10/13/15 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*50 - 150*	*10/06/15 12:12*	*10/13/15 15:49*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S3-AD-092215
Date Collected: 09/22/15 16:17
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-32
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)	ND		0.025	0.015	mg/L		10/06/15 12:12	10/13/15 16:09	1
Motor Oil (>C24-C36)	**0.018**	**J**	0.051	0.010	mg/L		10/06/15 12:12	10/13/15 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*25*	*X*	*50 - 150*	*10/06/15 12:12*	*10/13/15 16:09*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S3-AU-092215
Date Collected: 09/22/15 16:39
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-33
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)	0.017	J	0.026	0.015	mg/L		10/06/15 12:12	10/13/15 16:30	1
Motor Oil (>C24-C36)	0.022	J	0.051	0.010	mg/L		10/06/15 12:12	10/13/15 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*25*	*X*	*50 - 150*	*10/06/15 12:12*	*10/13/15 16:30*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S3-BD-092215
Date Collected: 09/22/15 16:48
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-34
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)	0.029		0.026	0.015	mg/L		10/06/15 12:12	10/13/15 16:51	1
Motor Oil (>C24-C36)	0.022	J	0.052	0.010	mg/L		10/06/15 12:12	10/13/15 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*50 - 150*	*10/06/15 12:12*	*10/13/15 16:51*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S3-BU-092215
Date Collected: 09/22/15 16:21
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-35
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)	0.025	J	0.026	0.015	mg/L		10/06/15 12:12	10/13/15 17:12	1
Motor Oil (>C24-C36)	0.024	J	0.053	0.010	mg/L		10/06/15 12:12	10/13/15 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*50 - 150*	*10/06/15 12:12*	*10/13/15 17:12*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S3-CD-092215
Date Collected: 09/22/15 17:05
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-36
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)	**0.017**	**J**	0.026	0.015	mg/L		10/06/15 12:12	10/13/15 17:32	1
Motor Oil (>C24-C36)	ND		0.051	0.010	mg/L		10/06/15 12:12	10/13/15 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*38*	*X*	*50 - 150*	*10/06/15 12:12*	*10/13/15 17:32*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S3-CU-092215
Date Collected: 09/22/15 17:24
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-37
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)	0.040		0.026	0.015	mg/L		10/06/15 12:12	10/13/15 17:53	1
Motor Oil (>C24-C36)	0.028	J	0.051	0.010	mg/L		10/06/15 12:12	10/13/15 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*50 - 150*	*10/06/15 12:12*	*10/13/15 17:53*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S4-AD-092215
Date Collected: 09/22/15 18:33
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-38
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)	0.021	J	0.025	0.015	mg/L		10/06/15 12:12	10/13/15 18:35	1
Motor Oil (>C24-C36)	0.019	J	0.051	0.010	mg/L		10/06/15 12:12	10/13/15 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*50 - 150*	*10/06/15 12:12*	*10/13/15 18:35*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S4-AU-092215
Date Collected: 09/22/15 18:08
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-39
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)	0.031		0.026	0.015	mg/L		10/06/15 12:12	10/13/15 18:56	1
Motor Oil (>C24-C36)	0.021	J	0.051	0.010	mg/L		10/06/15 12:12	10/13/15 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*50 - 150*	*10/06/15 12:12*	*10/13/15 18:56*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S4-BD-092215
Date Collected: 09/22/15 18:10
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-40
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)	0.031		0.026	0.015	mg/L		10/06/15 12:12	10/13/15 19:37	1
Motor Oil (>C24-C36)	0.021	J	0.051	0.010	mg/L		10/06/15 12:12	10/13/15 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*50 - 150*	*10/06/15 12:12*	*10/13/15 19:37*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S4-BU-092215
Date Collected: 09/22/15 16:33
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-41
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)	0.024	J	0.026	0.015	mg/L		10/06/15 18:27	10/08/15 01:32	1
Motor Oil (>C24-C36)	0.022	J	0.051	0.010	mg/L		10/06/15 18:27	10/08/15 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*50 - 150*	*10/06/15 18:27*	*10/08/15 01:32*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S4-CD-092215
Date Collected: 09/22/15 18:14
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-42
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)	0.022	J	0.026	0.015	mg/L		10/06/15 18:27	10/08/15 01:51	1
Motor Oil (>C24-C36)	0.025	J	0.051	0.010	mg/L		10/06/15 18:27	10/08/15 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*50 - 150*	*10/06/15 18:27*	*10/08/15 01:51*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S4-CU-092215
Date Collected: 09/22/15 18:41
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-43
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)	ND		0.026	0.015	mg/L		10/03/15 11:50	10/05/15 21:27	1
Motor Oil (>C24-C36)	ND	*	0.051	0.010	mg/L		10/03/15 11:50	10/05/15 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*50 - 150*	*10/03/15 11:50*	*10/05/15 21:27*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 5-W-14-092315
Date Collected: 09/23/15 13:00
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-44
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)	0.014	J	0.024	0.014	mg/L		10/06/15 18:27	10/08/15 03:25	1
Motor Oil (>C24-C36)	0.016	J	0.047	0.0093	mg/L		10/06/15 18:27	10/08/15 03:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*50 - 150*	*10/06/15 18:27*	*10/08/15 03:25*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 5-W-15-092315
Date Collected: 09/23/15 11:45
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-45
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)	**0.026**		0.024	0.014	mg/L		10/03/15 11:50	10/05/15 22:03	1
Motor Oil (>C24-C36)	ND	*	0.047	0.0093	mg/L		10/03/15 11:50	10/05/15 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*51*		*50 - 150*	*10/03/15 11:50*	*10/05/15 22:03*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 5-W-16-092215
Date Collected: 09/22/15 17:18
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-46
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)	0.026		0.025	0.015	mg/L		10/06/15 18:27	10/08/15 02:10	1
Motor Oil (>C24-C36)	0.027	J	0.050	0.0099	mg/L		10/06/15 18:27	10/08/15 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*10/06/15 18:27*	*10/08/15 02:10*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 5-W-160-092215
Date Collected: 09/22/15 17:20
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-47
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)	0.021	J	0.025	0.015	mg/L		10/06/15 18:27	10/08/15 02:29	1
Motor Oil (>C24-C36)	0.021	J	0.050	0.0099	mg/L		10/06/15 18:27	10/08/15 02:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*50 - 150*	*10/06/15 18:27*	*10/08/15 02:29*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 5-W-17-092315
Date Collected: 09/23/15 10:30
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-48
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)	0.019	J	0.025	0.015	mg/L		10/06/15 18:27	10/08/15 03:44	1
Motor Oil (>C24-C36)	0.018	J	0.050	0.0098	mg/L		10/06/15 18:27	10/08/15 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*50 - 150*	*10/06/15 18:27*	*10/08/15 03:44*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 5-W-18-092215
Date Collected: 09/22/15 16:00
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-49
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)	0.083		0.025	0.015	mg/L		10/03/15 11:50	10/05/15 23:33	1
Motor Oil (>C24-C36)	0.064	*	0.051	0.0099	mg/L		10/03/15 11:50	10/05/15 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*52*		*50 - 150*	*10/03/15 11:50*	*10/05/15 23:33*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 5-W-19-092215
Date Collected: 09/22/15 14:25
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-50
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)	0.024	J	0.025	0.015	mg/L		10/06/15 18:27	10/08/15 02:47	1
Motor Oil (>C24-C36)	0.028	J	0.050	0.0099	mg/L		10/06/15 18:27	10/08/15 02:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*50 - 150*	*10/06/15 18:27*	*10/08/15 02:47*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 5-W-54-092315
Date Collected: 09/23/15 17:45
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-51
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)	0.37		0.024	0.014	mg/L		10/03/15 11:50	10/06/15 00:09	1
Motor Oil (>C24-C36)	0.42	*	0.047	0.0093	mg/L		10/03/15 11:50	10/06/15 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*50 - 150*	*10/03/15 11:50*	*10/06/15 00:09*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 5-W-55-092315
Date Collected: 09/23/15 17:44
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-52
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)	0.10		0.024	0.014	mg/L		10/03/15 11:50	10/06/15 00:27	1
Motor Oil (>C24-C36)	0.13	*	0.047	0.0093	mg/L		10/03/15 11:50	10/06/15 00:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*50 - 150*	*10/03/15 11:50*	*10/06/15 00:27*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 5-W-56-092315
Date Collected: 09/23/15 18:08
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-53
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)	2.2		0.024	0.014	mg/L		10/03/15 11:50	10/06/15 00:45	1
Motor Oil (>C24-C36)	2.2	*	0.048	0.0094	mg/L		10/03/15 11:50	10/06/15 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*103*		*50 - 150*	*10/03/15 11:50*	*10/06/15 00:45*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 1A-W-4-092415
Date Collected: 09/24/15 14:52
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-54
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)	**0.014**	**J**	0.024	0.014	mg/L		10/03/15 11:50	10/06/15 01:03	1
Motor Oil (>C24-C36)	ND	*	0.047	0.0093	mg/L		10/03/15 11:50	10/06/15 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*50 - 150*	*10/03/15 11:50*	*10/06/15 01:03*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 1B-W-2-092415
Date Collected: 09/24/15 10:46
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-55
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)	0.078		0.024	0.014	mg/L		10/03/15 11:50	10/06/15 01:21	1
Motor Oil (>C24-C36)	0.090	*	0.048	0.0093	mg/L		10/03/15 11:50	10/06/15 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*50 - 150*	*10/03/15 11:50*	*10/06/15 01:21*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 1B-W-3-092415
Date Collected: 09/24/15 10:42
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-56
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)	0.037		0.024	0.014	mg/L		10/03/15 11:50	10/06/15 01:39	1
Motor Oil (>C24-C36)	0.031	J *	0.047	0.0093	mg/L		10/03/15 11:50	10/06/15 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*50 - 150*	*10/03/15 11:50*	*10/06/15 01:39*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 1C-W-3-092315
Date Collected: 09/23/15 12:06
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-57
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)	0.015	J	0.024	0.014	mg/L		10/06/15 18:27	10/08/15 04:02	1
Motor Oil (>C24-C36)	0.020	J	0.048	0.0093	mg/L		10/06/15 18:27	10/08/15 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*50 - 150*	*10/06/15 18:27*	*10/08/15 04:02*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 1C-W-4-092315
Date Collected: 09/23/15 10:42
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-58
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)	0.038		0.024	0.014	mg/L		10/03/15 11:50	10/06/15 02:33	1
Motor Oil (>C24-C36)	0.031	J *	0.048	0.0093	mg/L		10/03/15 11:50	10/06/15 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*50 - 150*	*10/03/15 11:50*	*10/06/15 02:33*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: MW-16-092415
Date Collected: 09/24/15 08:46
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-59
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)	**0.015**	**J**	0.024	0.014	mg/L		10/03/15 11:50	10/06/15 02:51	1
Motor Oil (>C24-C36)	ND	*	0.048	0.0093	mg/L		10/03/15 11:50	10/06/15 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*50 - 150*	*10/03/15 11:50*	*10/06/15 02:51*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: MW-38R-092415
Date Collected: 09/24/15 12:05
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-60
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)	0.035		0.024	0.014	mg/L		10/03/15 11:50	10/06/15 03:09	1
Motor Oil (>C24-C36)	0.020	J *	0.047	0.0093	mg/L		10/03/15 11:50	10/06/15 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*50 - 150*	*10/03/15 11:50*	*10/06/15 03:09*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 5-W-43-092415
Date Collected: 09/24/15 17:25
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-61
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)	0.031		0.024	0.014	mg/L		10/05/15 11:44	10/06/15 23:10	1
Motor Oil (>C24-C36)	0.033	J B	0.047	0.0093	mg/L		10/05/15 11:44	10/06/15 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*50 - 150*	*10/05/15 11:44*	*10/06/15 23:10*	*1*

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

Lab Sample ID: MB 580-202236/1-A
Matrix: Water
Analysis Batch: 202901

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202236

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		10/01/15 12:52	10/09/15 13:38	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		10/01/15 12:52	10/09/15 13:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*10/01/15 12:52*	*10/09/15 13:38*	*1*

Lab Sample ID: LCS 580-202236/2-A
Matrix: Water
Analysis Batch: 202901

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202236

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			0.500	0.423		mg/L		85	59 - 120		
Motor Oil (>C24-C36)			0.502	0.419		mg/L		84	71 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*87*		*50 - 150*

Lab Sample ID: LCSD 580-202236/3-A
Matrix: Water
Analysis Batch: 202901

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202236

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.431		mg/L		86	59 - 120	2	27
Motor Oil (>C24-C36)			0.502	0.447		mg/L		89	71 - 140	6	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*90*		*50 - 150*

Lab Sample ID: MB 580-202415/1-A
Matrix: Water
Analysis Batch: 202512

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		10/03/15 11:50	10/05/15 19:57	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		10/03/15 11:50	10/05/15 19:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*50 - 150*	*10/03/15 11:50*	*10/05/15 19:57*	*1*

Lab Sample ID: LCS 580-202415/2-A
Matrix: Water
Analysis Batch: 202512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202415

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			0.500	0.299		mg/L		60	59 - 120		
Motor Oil (>C24-C36)			0.502	0.370		mg/L		74	71 - 140		

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

Lab Sample ID: LCS 580-202415/2-A
Matrix: Water
Analysis Batch: 202512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202415

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	60		50 - 150

Lab Sample ID: LCSD 580-202415/3-A
Matrix: Water
Analysis Batch: 202512

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202415

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.380		mg/L		76	59 - 120	24	27
Motor Oil (>C24-C36)			0.502	0.526	*	mg/L		105	71 - 140	35	27

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	86		50 - 150

Lab Sample ID: MB 580-202484/1-A
Matrix: Water
Analysis Batch: 202605

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202484

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		10/05/15 11:44	10/06/15 21:35	1
Motor Oil (>C24-C36)	0.0131	J	0.050	0.0098	mg/L		10/05/15 11:44	10/06/15 21:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	72		50 - 150	10/05/15 11:44	10/06/15 21:35	1

Lab Sample ID: LCS 580-202484/2-A
Matrix: Water
Analysis Batch: 202605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202484

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)			0.500	0.410		mg/L		82	59 - 120
Motor Oil (>C24-C36)			0.502	0.487		mg/L		97	71 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	81		50 - 150

Lab Sample ID: LCSD 580-202484/3-A
Matrix: Water
Analysis Batch: 202605

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202484

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.314		mg/L		63	59 - 120	27	27
Motor Oil (>C24-C36)			0.502	0.394		mg/L		79	71 - 140	21	27

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	65		50 - 150

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

Lab Sample ID: MB 580-202569/1-A
Matrix: Water
Analysis Batch: 203163

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202569

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		10/06/15 12:12	10/13/15 19:16	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		10/06/15 12:12	10/13/15 19:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*50 - 150*	*10/06/15 12:12*	*10/13/15 19:16*	*1*

Lab Sample ID: LCS 580-202569/2-A
Matrix: Water
Analysis Batch: 203163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202569

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.462		mg/L		92	59 - 120
Motor Oil (>C24-C36)	0.502	0.574		mg/L		114	71 - 140

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

Lab Sample ID: LCSD 580-202569/3-A
Matrix: Water
Analysis Batch: 203163

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202569

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	0.500	0.472		mg/L		94	59 - 120	2	27
Motor Oil (>C24-C36)	0.502	0.544		mg/L		108	71 - 140	5	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*95*		*50 - 150*

Lab Sample ID: MB 580-202606/1-A
Matrix: Water
Analysis Batch: 202652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202606

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		10/06/15 18:27	10/08/15 10:38	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		10/06/15 18:27	10/08/15 10:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*50 - 150*	*10/06/15 18:27*	*10/08/15 10:38*	*1*

Lab Sample ID: LCS 580-202606/2-A
Matrix: Water
Analysis Batch: 202652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202606

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.476		mg/L		95	59 - 120
Motor Oil (>C24-C36)	0.502	0.535		mg/L		107	71 - 140

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

Lab Sample ID: LCS 580-202606/2-A
Matrix: Water
Analysis Batch: 202652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202606

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

Lab Sample ID: LCSD 580-202606/3-A
Matrix: Water
Analysis Batch: 202652

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 202606

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.447		mg/L		89	59 - 120	6	27
Motor Oil (>C24-C36)			0.502	0.561		mg/L		112	71 - 140	5	27

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

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 1C-W-1-092315
Lab Sample ID: 580-53745-1
Date Collected: 09/23/15 14:55
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202236	10/01/15 12:52	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202901	10/09/15 18:28	NMI	TAL SEA

Client Sample ID: 1C-W-7-092315
Lab Sample ID: 580-53745-2
Date Collected: 09/23/15 14:46
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202236	10/01/15 12:52	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202901	10/09/15 18:46	NMI	TAL SEA

Client Sample ID: 1C-W-8-092315
Lab Sample ID: 580-53745-3
Date Collected: 09/23/15 10:05
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202236	10/01/15 12:52	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202901	10/09/15 19:03	NMI	TAL SEA

Client Sample ID: 1C-W-80-092315
Lab Sample ID: 580-53745-4
Date Collected: 09/23/15 10:08
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202236	10/01/15 12:52	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202901	10/09/15 19:21	NMI	TAL SEA

Client Sample ID: 1B-W-23-092415
Lab Sample ID: 580-53745-5
Date Collected: 09/24/15 13:44
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202236	10/01/15 12:52	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202901	10/09/15 19:38	NMI	TAL SEA

Client Sample ID: 2A-W-40-092415
Lab Sample ID: 580-53745-6
Date Collected: 09/24/15 16:09
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202236	10/01/15 12:52	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202901	10/09/15 19:56	NMI	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 2A-W-41-092415
Lab Sample ID: 580-53745-7
Date Collected: 09/24/15 15:29
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202236	10/01/15 12:52	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202901	10/09/15 20:14	NMI	TAL SEA

Client Sample ID: 2A-W-42-092315
Lab Sample ID: 580-53745-8
Date Collected: 09/23/15 16:04
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202236	10/01/15 12:52	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202901	10/09/15 20:49	NMI	TAL SEA

Client Sample ID: 2A-W-10-092315
Lab Sample ID: 580-53745-9
Date Collected: 09/23/15 16:20
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202236	10/01/15 12:52	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202901	10/09/15 21:07	NMI	TAL SEA

Client Sample ID: 2A-W-9-092415
Lab Sample ID: 580-53745-10
Date Collected: 09/24/15 10:15
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202236	10/01/15 12:52	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202901	10/09/15 21:25	NMI	TAL SEA

Client Sample ID: 2A-W-90-092415
Lab Sample ID: 580-53745-11
Date Collected: 09/24/15 10:20
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202236	10/01/15 12:52	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202901	10/09/15 21:42	NMI	TAL SEA

Client Sample ID: 2B-W-4-09242015
Lab Sample ID: 580-53745-12
Date Collected: 09/24/15 08:58
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202236	10/01/15 12:52	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202901	10/09/15 22:00	NMI	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: MW-3-09242015
Date Collected: 09/24/15 09:09
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202236	10/01/15 12:52	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202901	10/09/15 22:18	NMI	TAL SEA

Client Sample ID: MW-4-09232015
Date Collected: 09/23/15 15:15
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202236	10/01/15 12:52	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202901	10/09/15 22:35	NMI	TAL SEA

Client Sample ID: EW-1-092415
Date Collected: 09/24/15 17:00
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202236	10/01/15 12:52	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202901	10/09/15 22:53	NMI	TAL SEA

Client Sample ID: EW-2A-092315
Date Collected: 09/23/15 11:24
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202236	10/01/15 12:52	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202901	10/09/15 23:11	NMI	TAL SEA

Client Sample ID: GW-1-092415
Date Collected: 09/24/15 16:12
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202236	10/01/15 12:52	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202901	10/09/15 23:28	NMI	TAL SEA

Client Sample ID: GW-10-092415
Date Collected: 09/24/15 16:15
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202236	10/01/15 12:52	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202901	10/10/15 00:04	NMI	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: GW-2-092415
Lab Sample ID: 580-53745-19
Date Collected: 09/24/15 14:45
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202236	10/01/15 12:52	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202901	10/10/15 00:22	NMI	TAL SEA

Client Sample ID: GW-20-092415
Lab Sample ID: 580-53745-20
Date Collected: 09/24/15 14:50
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202236	10/01/15 12:52	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		20	202901	10/10/15 00:39	NMI	TAL SEA

Client Sample ID: GW-3-092415
Lab Sample ID: 580-53745-21
Date Collected: 09/24/15 12:19
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202569	10/06/15 12:12	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203163	10/13/15 12:01	NMI	TAL SEA

Client Sample ID: GW-30-092415
Lab Sample ID: 580-53745-22
Date Collected: 09/24/15 12:20
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202569	10/06/15 12:12	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203163	10/13/15 12:21	NMI	TAL SEA

Client Sample ID: GW-4-092315
Lab Sample ID: 580-53745-23
Date Collected: 09/23/15 12:39
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202569	10/06/15 12:12	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203163	10/13/15 12:42	NMI	TAL SEA

Client Sample ID: S1-AD-092215
Lab Sample ID: 580-53745-24
Date Collected: 09/22/15 13:52
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202569	10/06/15 12:12	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203163	10/13/15 13:02	NMI	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S1-AU-092215
Lab Sample ID: 580-53745-25
Date Collected: 09/22/15 14:23
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202569	10/06/15 12:12	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203163	10/13/15 13:23	NMI	TAL SEA

Client Sample ID: S1-BD-092215
Lab Sample ID: 580-53745-26
Date Collected: 09/22/15 13:45
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202569	10/06/15 12:12	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203163	10/13/15 13:44	NMI	TAL SEA

Client Sample ID: S1-BU-092215
Lab Sample ID: 580-53745-27
Date Collected: 09/22/15 14:10
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202569	10/06/15 12:12	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203163	10/13/15 14:05	NMI	TAL SEA

Client Sample ID: S2-AD-092215
Lab Sample ID: 580-53745-28
Date Collected: 09/22/15 15:12
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202569	10/06/15 12:12	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203163	10/13/15 14:46	NMI	TAL SEA

Client Sample ID: S2-AU-092215
Lab Sample ID: 580-53745-29
Date Collected: 09/22/15 15:40
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202569	10/06/15 12:12	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203163	10/13/15 15:07	NMI	TAL SEA

Client Sample ID: S2-BD-092215
Lab Sample ID: 580-53745-30
Date Collected: 09/22/15 14:50
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202569	10/06/15 12:12	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203163	10/13/15 15:28	NMI	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S2-BU-092215
Lab Sample ID: 580-53745-31
Date Collected: 09/22/15 15:15
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202569	10/06/15 12:12	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203163	10/13/15 15:49	NMI	TAL SEA

Client Sample ID: S3-AD-092215
Lab Sample ID: 580-53745-32
Date Collected: 09/22/15 16:17
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202569	10/06/15 12:12	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203163	10/13/15 16:09	NMI	TAL SEA

Client Sample ID: S3-AU-092215
Lab Sample ID: 580-53745-33
Date Collected: 09/22/15 16:39
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202569	10/06/15 12:12	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203163	10/13/15 16:30	NMI	TAL SEA

Client Sample ID: S3-BD-092215
Lab Sample ID: 580-53745-34
Date Collected: 09/22/15 16:48
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202569	10/06/15 12:12	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203163	10/13/15 16:51	NMI	TAL SEA

Client Sample ID: S3-BU-092215
Lab Sample ID: 580-53745-35
Date Collected: 09/22/15 16:21
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202569	10/06/15 12:12	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203163	10/13/15 17:12	NMI	TAL SEA

Client Sample ID: S3-CD-092215
Lab Sample ID: 580-53745-36
Date Collected: 09/22/15 17:05
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202569	10/06/15 12:12	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203163	10/13/15 17:32	NMI	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S3-CU-092215
Lab Sample ID: 580-53745-37
Date Collected: 09/22/15 17:24
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202569	10/06/15 12:12	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203163	10/13/15 17:53	NMI	TAL SEA

Client Sample ID: S4-AD-092215
Lab Sample ID: 580-53745-38
Date Collected: 09/22/15 18:33
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202569	10/06/15 12:12	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203163	10/13/15 18:35	NMI	TAL SEA

Client Sample ID: S4-AU-092215
Lab Sample ID: 580-53745-39
Date Collected: 09/22/15 18:08
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202569	10/06/15 12:12	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203163	10/13/15 18:56	NMI	TAL SEA

Client Sample ID: S4-BD-092215
Lab Sample ID: 580-53745-40
Date Collected: 09/22/15 18:10
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202569	10/06/15 12:12	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	203163	10/13/15 19:37	NMI	TAL SEA

Client Sample ID: S4-BU-092215
Lab Sample ID: 580-53745-41
Date Collected: 09/22/15 16:33
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202606	10/06/15 18:27	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202652	10/08/15 01:32	NMI	TAL SEA

Client Sample ID: S4-CD-092215
Lab Sample ID: 580-53745-42
Date Collected: 09/22/15 18:14
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202606	10/06/15 18:27	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202652	10/08/15 01:51	NMI	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: S4-CU-092215
Lab Sample ID: 580-53745-43
Date Collected: 09/22/15 18:41
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202415	10/03/15 11:50	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202512	10/05/15 21:27	NMI	TAL SEA

Client Sample ID: 5-W-14-092315
Lab Sample ID: 580-53745-44
Date Collected: 09/23/15 13:00
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202606	10/06/15 18:27	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202652	10/08/15 03:25	NMI	TAL SEA

Client Sample ID: 5-W-15-092315
Lab Sample ID: 580-53745-45
Date Collected: 09/23/15 11:45
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202415	10/03/15 11:50	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202512	10/05/15 22:03	NMI	TAL SEA

Client Sample ID: 5-W-16-092215
Lab Sample ID: 580-53745-46
Date Collected: 09/22/15 17:18
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202606	10/06/15 18:27	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202652	10/08/15 02:10	NMI	TAL SEA

Client Sample ID: 5-W-160-092215
Lab Sample ID: 580-53745-47
Date Collected: 09/22/15 17:20
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202606	10/06/15 18:27	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202652	10/08/15 02:29	NMI	TAL SEA

Client Sample ID: 5-W-17-092315
Lab Sample ID: 580-53745-48
Date Collected: 09/23/15 10:30
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202606	10/06/15 18:27	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202652	10/08/15 03:44	NMI	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 5-W-18-092215
Lab Sample ID: 580-53745-49
Date Collected: 09/22/15 16:00
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202415	10/03/15 11:50	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202512	10/05/15 23:33	NMI	TAL SEA

Client Sample ID: 5-W-19-092215
Lab Sample ID: 580-53745-50
Date Collected: 09/22/15 14:25
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202606	10/06/15 18:27	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202652	10/08/15 02:47	NMI	TAL SEA

Client Sample ID: 5-W-54-092315
Lab Sample ID: 580-53745-51
Date Collected: 09/23/15 17:45
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202415	10/03/15 11:50	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202512	10/06/15 00:09	NMI	TAL SEA

Client Sample ID: 5-W-55-092315
Lab Sample ID: 580-53745-52
Date Collected: 09/23/15 17:44
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202415	10/03/15 11:50	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202512	10/06/15 00:27	NMI	TAL SEA

Client Sample ID: 5-W-56-092315
Lab Sample ID: 580-53745-53
Date Collected: 09/23/15 18:08
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202415	10/03/15 11:50	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202512	10/06/15 00:45	NMI	TAL SEA

Client Sample ID: 1A-W-4-092415
Lab Sample ID: 580-53745-54
Date Collected: 09/24/15 14:52
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202415	10/03/15 11:50	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202512	10/06/15 01:03	NMI	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 1B-W-2-092415
Lab Sample ID: 580-53745-55
Date Collected: 09/24/15 10:46
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202415	10/03/15 11:50	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202512	10/06/15 01:21	NMI	TAL SEA

Client Sample ID: 1B-W-3-092415
Lab Sample ID: 580-53745-56
Date Collected: 09/24/15 10:42
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202415	10/03/15 11:50	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202512	10/06/15 01:39	NMI	TAL SEA

Client Sample ID: 1C-W-3-092315
Lab Sample ID: 580-53745-57
Date Collected: 09/23/15 12:06
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202606	10/06/15 18:27	DCC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202652	10/08/15 04:02	NMI	TAL SEA

Client Sample ID: 1C-W-4-092315
Lab Sample ID: 580-53745-58
Date Collected: 09/23/15 10:42
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202415	10/03/15 11:50	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202512	10/06/15 02:33	NMI	TAL SEA

Client Sample ID: MW-16-092415
Lab Sample ID: 580-53745-59
Date Collected: 09/24/15 08:46
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202415	10/03/15 11:50	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202512	10/06/15 02:51	NMI	TAL SEA

Client Sample ID: MW-38R-092415
Lab Sample ID: 580-53745-60
Date Collected: 09/24/15 12:05
Matrix: Water
Date Received: 09/25/15 12:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202415	10/03/15 11:50	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202512	10/06/15 03:09	NMI	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Client Sample ID: 5-W-43-092415

Date Collected: 09/24/15 17:25
Date Received: 09/25/15 12:58

Lab Sample ID: 580-53745-61

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			202484	10/05/15 11:44	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	202605	10/06/15 23:10	NMI	TAL SEA

Laboratory References:

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

Certification Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Laboratory: TestAmerica Seattle

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-16
California	State Program	9	2901	01-31-17
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-16
US Fish & Wildlife	Federal		LE058448-0	02-28-16
USDA	Federal		P330-14-00126	04-08-17
Washington	State Program	10	C553	02-17-16

Sample Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-53745-1	1C-W-1-092315	Water	09/23/15 14:55	09/25/15 12:58
580-53745-2	1C-W-7-092315	Water	09/23/15 14:46	09/25/15 12:58
580-53745-3	1C-W-8-092315	Water	09/23/15 10:05	09/25/15 12:58
580-53745-4	1C-W-80-092315	Water	09/23/15 10:08	09/25/15 12:58
580-53745-5	1B-W-23-092415	Water	09/24/15 13:44	09/25/15 12:58
580-53745-6	2A-W-40-092415	Water	09/24/15 16:09	09/25/15 12:58
580-53745-7	2A-W-41-092415	Water	09/24/15 15:29	09/25/15 12:58
580-53745-8	2A-W-42-092315	Water	09/23/15 16:04	09/25/15 12:58
580-53745-9	2A-W-10-092315	Water	09/23/15 16:20	09/25/15 12:58
580-53745-10	2A-W-9-092415	Water	09/24/15 10:15	09/25/15 12:58
580-53745-11	2A-W-90-092415	Water	09/24/15 10:20	09/25/15 12:58
580-53745-12	2B-W-4-09242015	Water	09/24/15 08:58	09/25/15 12:58
580-53745-13	MW-3-09242015	Water	09/24/15 09:09	09/25/15 12:58
580-53745-14	MW-4-09232015	Water	09/23/15 15:15	09/25/15 12:58
580-53745-15	EW-1-092415	Water	09/24/15 17:00	09/25/15 12:58
580-53745-16	EW-2A-092315	Water	09/23/15 11:24	09/25/15 12:58
580-53745-17	GW-1-092415	Water	09/24/15 16:12	09/25/15 12:58
580-53745-18	GW-10-092415	Water	09/24/15 16:15	09/25/15 12:58
580-53745-19	GW-2-092415	Water	09/24/15 14:45	09/25/15 12:58
580-53745-20	GW-20-092415	Water	09/24/15 14:50	09/25/15 12:58
580-53745-21	GW-3-092415	Water	09/24/15 12:19	09/25/15 12:58
580-53745-22	GW-30-092415	Water	09/24/15 12:20	09/25/15 12:58
580-53745-23	GW-4-092315	Water	09/23/15 12:39	09/25/15 12:58
580-53745-24	S1-AD-092215	Water	09/22/15 13:52	09/25/15 12:58
580-53745-25	S1-AU-092215	Water	09/22/15 14:23	09/25/15 12:58
580-53745-26	S1-BD-092215	Water	09/22/15 13:45	09/25/15 12:58
580-53745-27	S1-BU-092215	Water	09/22/15 14:10	09/25/15 12:58
580-53745-28	S2-AD-092215	Water	09/22/15 15:12	09/25/15 12:58
580-53745-29	S2-AU-092215	Water	09/22/15 15:40	09/25/15 12:58
580-53745-30	S2-BD-092215	Water	09/22/15 14:50	09/25/15 12:58
580-53745-31	S2-BU-092215	Water	09/22/15 15:15	09/25/15 12:58
580-53745-32	S3-AD-092215	Water	09/22/15 16:17	09/25/15 12:58
580-53745-33	S3-AU-092215	Water	09/22/15 16:39	09/25/15 12:58
580-53745-34	S3-BD-092215	Water	09/22/15 16:48	09/25/15 12:58
580-53745-35	S3-BU-092215	Water	09/22/15 16:21	09/25/15 12:58
580-53745-36	S3-CD-092215	Water	09/22/15 17:05	09/25/15 12:58
580-53745-37	S3-CU-092215	Water	09/22/15 17:24	09/25/15 12:58
580-53745-38	S4-AD-092215	Water	09/22/15 18:33	09/25/15 12:58
580-53745-39	S4-AU-092215	Water	09/22/15 18:08	09/25/15 12:58
580-53745-40	S4-BD-092215	Water	09/22/15 18:10	09/25/15 12:58
580-53745-41	S4-BU-092215	Water	09/22/15 16:33	09/25/15 12:58
580-53745-42	S4-CD-092215	Water	09/22/15 18:14	09/25/15 12:58
580-53745-43	S4-CU-092215	Water	09/22/15 18:41	09/25/15 12:58
580-53745-44	5-W-14-092315	Water	09/23/15 13:00	09/25/15 12:58
580-53745-45	5-W-15-092315	Water	09/23/15 11:45	09/25/15 12:58
580-53745-46	5-W-16-092215	Water	09/22/15 17:18	09/25/15 12:58
580-53745-47	5-W-160-092215	Water	09/22/15 17:20	09/25/15 12:58
580-53745-48	5-W-17-092315	Water	09/23/15 10:30	09/25/15 12:58
580-53745-49	5-W-18-092215	Water	09/22/15 16:00	09/25/15 12:58
580-53745-50	5-W-19-092215	Water	09/22/15 14:25	09/25/15 12:58
580-53745-51	5-W-54-092315	Water	09/23/15 17:45	09/25/15 12:58
580-53745-52	5-W-55-092315	Water	09/23/15 17:44	09/25/15 12:58
580-53745-53	5-W-56-092315	Water	09/23/15 18:08	09/25/15 12:58

Sample Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-53745-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-53745-54	1A-W-4-092415	Water	09/24/15 14:52	09/25/15 12:58
580-53745-55	1B-W-2-092415	Water	09/24/15 10:46	09/25/15 12:58
580-53745-56	1B-W-3-092415	Water	09/24/15 10:42	09/25/15 12:58
580-53745-57	1C-W-3-092315	Water	09/23/15 12:06	09/25/15 12:58
580-53745-58	1C-W-4-092315	Water	09/23/15 10:42	09/25/15 12:58
580-53745-59	MW-16-092415	Water	09/24/15 08:46	09/25/15 12:58
580-53745-60	MW-38R-092415	Water	09/24/15 12:05	09/25/15 12:58
580-53745-61	5-W-43-092415	Water	09/24/15 17:25	09/25/15 12:58

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

53745

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

10/15/2015

Client Information	Sampler:	Lab PM: Allen, Kristine D	Carrier Tracking No(s):	COC No: 580-16392-5810.1
Client Contact: ~~Emerald Erickson Mulanax~~ JERRY PORTELE	Phone:	E-Mail: kristine.allen@testamericainc.com		Page: Page 3 of 3 1/6
Company: Farallon Consulting LLC				Job #:
Address: 975 5th Avenue NW Suite 100	Due Date Requested:			
City: Issaquah	TAT Requested (days):			
State, Zip: WA, 98027				
Phone:	PO #: TT0100-P06			
Email: JPORTELE ~~ericksen~~@farallonconsulting.com	WO #: Tax Code 8800			
Project Name: BNSF Skykomish Ground Water	Project #: ~~58006304~~ 683-043			
Site: Washington	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	NWTPH_Dx - Standard reporting list for NWTPH-Dx	Total Number of containers	Special Instructions/Note:
				Preservation Code:				A		
1	1C-W-1-092315	9/23/15	1455	G	Water					
2	1C-W-7-092315	9/23/15	1446	|	Water					
3	1C-W-8-092315	9/23/15	1005	|	Water					
4	1C-W-80-092315	9/23/15	1008	|	Water					
5	1B-W-23-092415	9/24/15	1344	|	Water					
6	2A-W-40-092415	9/24/15	1609	|	Water					
7	2A-W-41-092415	9/24/15	1529	|	Water					
8	2A-W-42-092315	9/23/15	1604	|	Water					
9	2A-W-10-092315	9/23/15	1620	|	Water					
10	2A-W-~~11~~ (OK) -9-092415	9/24/15	1015	|	Water					
11	2A-W-90-092415	9/24/15	1020	↓	Water					

580-53745 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		9/25 1100			9/25/15 1258	TASEA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

10/15/2015

Client Information	Sampler:	Lab PM: Allen, Kristine D	Carrier Tracking No(s):	COC No: 580-16392-5810.2
Client Contact: ~~Emerald Erickson Mulanax~~ JERRY PORTELE	Phone:	E-Mail: kristine.allen@testamericainc.com		Page: Page 2 of 3 2/6
Company: Farallon Consulting LLC				Job #:

Address: 975 5th Avenue NW Suite 100	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Issaquah	TAT Requested (days):		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: WA, 98027			
Phone:	PO #: TT0100-P06		
Email: JPORTELE ~~cerickson~~@farallonconsulting.com	WO #: Tax Code 8800		Other:
Project Name: BNSF Skykomish Ground Water	Project #: ~~50006391~~ 683-043		
Site: Washington	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	NWTPH_Dx - Standard reporting list for NWTPH-Dx	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
12 28-W-4-092415	9/24/15	0858	G	Water					
13 MW-3-092415	9/24/15	0909	|	Water					
14 MW-4-092315	9/23/15	1515	|	Water					
15 EW-1-092415	9/24/15	1700	|	Water					
16 EW-2A-092315	9/23/15	1124	|	Water					
17 GW-1-092415	9/24/15	1612	|	Water					
18 GW-10-092415	9/24/15	1615	|	Water					
19 GW-2-092415	9/24/15	1445	|	Water					
20 GW-20-092415	9/24/15	1450	|	Water					
21 GW-3-092415	9/24/15	1219	|	Water					
22 GW-30-092415	9/24/15	1220	↓	Water					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 9/25 1100	Company	Received by:	Date/Time: 9/25/15 1255	Company TAS EH
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

10/15/2015

Client Information	Sampler:	Lab PM: Allen, Kristine D	Carrier Tracking No(s):	COC No: 580-16392-5810.2
Client Contact: ~~Emerald Erickson Mulanax~~ JERRY PORTELE	Phone:	E-Mail: kristine.allen@testamericainc.com		Page: Page 2 of 4 3/6
Company: Farallon Consulting LLC				Job #:
Address: 975 5th Avenue NW Suite 100	Due Date Requested:			
City: Issaquah	TAT Requested (days):			
State, Zip: WA, 98027				
Phone:	PO #: TT0100-P06			
Email: JPORTELE ~~erickson~~@farallonconsulting.com	WO #: Tax Code 8800			
Project Name: BNSF Skykomish Ground Water	Project #: ~~58006391~~ 6083-043			
Site: Washington	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	NWTPH_Dx - Standard reporting list for NWTPH-Dx	Total Number of containers	Special Instructions/Note:
			Preservation Code:					A		
23	GW-4-092315	9/23/15	1239	G	Water					
24	S1-AD-092215	9/22/15	1352	|	Water					
25	S1-AU-092215	|	1423	|	Water					
26	S1-BD-092215	|	1345	|	Water					
27	S1-BU-092215	|	1410	|	Water					
28	S2-AD-092215	|	1512	|	Water					
29	S2-AU-092215	|	1540	|	Water					
30	S2-BD-092215	|	1450	|	Water					
31	S2-BU-092215	|	1515	|	Water					
32	S3-AD-092215	|	1617	|	Water					
33	S3-AU-092215	↓	1639	↓	Water					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/25 1100			9/25/15 1256	TASEA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

10/15/2015

Client Information	Sampler:	Lab PM: Allen, Kristine D	Carrier Tracking No(s):	COC No: 580-16392-5810.2
Client Contact: ~~Emerald Erickson Mulanax~~ JERRY PORTELE	Phone:	E-Mail: kristine.allen@testamericainc.com		Page: Page 2 of 4 4/16
Company: Farallon Consulting LLC		Analysis Requested		Job #:
Address: 975 5th Avenue NW Suite 100	Due Date Requested:			Preservation Codes:
City: Issaquah	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - ph 4-5 L - EDA Z - other (specify)
State, Zip: WA, 98027				
Phone:	PO #: TT0100-P06			Other:
Email: JPORTELE ~~cerickson~~@farallonconsulting.com	WO #: Tax Code 8800			
Project Name: BNSF Skykomish Ground Water	Project #: ~~58006391~~ 683-043			
Site: Washington	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	NWTPH_Dx - Standard reporting list for NWTPH-Dx	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
34 S3-BD-092215	9/22/15	1648	G	Water					
35 S3-BU-092215	"	1621	"	Water					
36 S3-CD-092215	"	1705	"	Water					
37 S3-CU-092215	"	1724	"	Water					
38 S4-AD-092215	"	1833	"	Water					
39 S4-AU-092215	"	1808	"	Water					
40 S4-BD-092215	"	1810	"	Water					
41 S4-BU-092215	"	1633	"	Water					
42 S4-CD-092215	"	1814	"	Water					
43 S4-CU-092215	"	1841	"	Water					
44 S-W-14-092315	9/23/15	1300	"	Water					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/25 1100			9/25/15 1258	TASEA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: Allen, Kristine D	Carrier Tracking No(s):	COC No: 580-16392-5810.2
Client Contact: ~~Emerald Erickson-Mulanax~~ JERRY PORTELE	Phone:	E-Mail: kristine.allen@testamericainc.com		Page: Page 2 of 2 5/16
Company: Farallon Consulting LLC				Job #:
Address: 975 5th Avenue NW Suite 100	Due Date Requested:			
City: Issaquah	TAT Requested (days):			
State, Zip: WA, 98027				
Phone:	PO #: TT0100-P06			
Email: JPORTELE ~~ecrickson~~@farallonconsulting.com	WO #: Tax Code 8800			
Project Name: BNSF Skykomish Ground Water	Project #: ~~58006391~~ 6683-043			
Site: Washington	SSOW#:			

Analysis Requested

Field Filtered Sample (Yes or No)
Perform MS/MSD (Yes or No)
NWTPH_Dx - Standard reporting list for NWTPH-Dx
Total Number of containers

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Special Instructions/Note:
	Preservation Code:					A
45	S-W-15-092315	9/23/15	1145	G	Water	
46	S-W-16-092215	9/22/15	1718		Water	
47	S-W-160-092215	9/22/15	1720		Water	
48	S-W-17-092315	9/23/15	1030		Water	
49	S-W-18-092215	9/22/15	1600		Water	
50	S-W-19-092215	9/22/15	1425		Water	
51	S-W-54-092315	9/23/15	1745		Water	
52	S-W-55-092315	9/23/15	1744		Water	
53	S-W-56-092315	9/23/15	1808		Water	
54	1A-W-4-092415	9/24/15	1452		Water	
55	1B-W-2-092415	9/24/15	1046		Water	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/25 1100			9/25/15 1258	TA SEA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

10/15/2015

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: Allen, Kristine D	Carrier Tracking No(s):	COC No: 580-16392-5810.2
Client Contact: ~~Emerald Erickson Mulanax~~ JERRY PORTELE	Phone:	E-Mail: kristine.allen@testamericainc.com		Page: Page 2 of 2 6/16
Company: Farallon Consulting LLC				Job #:
Address: 975 5th Avenue NW Suite 100	Due Date Requested:			
City: Issaquah	TAT Requested (days):			
State, Zip: WA, 98027				
Phone:	PO #: TT0100-P06			
Email: JPORTELE ~~eerickson~~@farallonconsulting.com	WO #: Tax Code 8800			
Project Name: BNSF Skykomish Ground Water	Project #: ~~58006391~~ 6083-043			
Site: Washington	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	NWTPH_Dx - Standard reporting list for NWTPH-Dx	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
1B-W-3-092415	9/24/15	1042	~~1042~~ G	Water					
1C-W-3-092315	9/23/15	1206	G	Water					
1C-W-4-092315	9/23/15	1042	|	Water					
MW-16-092415	9/24/15	0846	|	Water					
MW-38R-092415	9/24/15	1205	|	Water					
5-W-43-092415	9/24/15	1725	|	Water					
			|	Water					
			|	Water					
			|	Water					
			|	Water					
			↓	Water					

OK

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		9/25 1100			9/25/15 1258	TASEH
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

10/15/2015

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-53745-1

Login Number: 53745
List Number: 1
Creator: Gamble, Cathy L

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	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.	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	
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.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 580-55846-1
Client Project/Site: BNSF Skykomish Ground Water
Sampling Event: Skykomish HCC System

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

Attn: Gerald Portele

Kristine D. Allen

Authorized for release by:
12/21/2015 2:35:29 PM

Kristine Allen, Manager of Project Management
(253)248-4970
kristine.allen@testamericainc.com

Table of Contents

Job ID: 580-55846-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-55846-1

Comments
No additional comments.

Receipt
The samples were received on 12/11/2015 11:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 10 coolers at receipt time were 0.2º C, 0.5º C, 0.5º C, 0.5º C, 1.2º C, 1.5º C, 1.9º C, 2.1º C, 2.5º C and 4.2º C.

GC Semi VOA
Method(s) NWTPH-Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: 1C-W-7-120915 (580-55846-2), 1C-W-8-120915 (580-55846-3), 2A-W-41-121015 (580-55846-6), 2A-W-42-120915 (580-55846-7) and 2A-W-10-121015 (580-55846-8).

Method(s) NWTPH-Dx: The method blank for preparation batch 580-207883 and analytical batch 580-208055 contained Motor Oil (>C24-C36) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed.

Method(s) 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: S4-CU-120815 (580-55846-26) and 5-W-15-120915 (580-55846-28).

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
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 1C-W-1-120915
Date Collected: 12/09/15 13:25
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-1
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)	0.021	J	0.024	0.014	mg/L		12/15/15 14:45	12/17/15 16:48	1
Motor Oil (>C24-C36)	0.053	B	0.048	0.0093	mg/L		12/15/15 14:45	12/17/15 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93*		*50 - 150*	*12/15/15 14:45*	*12/17/15 16:48*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 1C-W-7-120915
Date Collected: 12/09/15 13:00
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-2
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)	0.088		0.024	0.014	mg/L		12/15/15 14:45	12/17/15 17:08	1
Motor Oil (>C24-C36)	0.047	B	0.047	0.0093	mg/L		12/15/15 14:45	12/17/15 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*12/15/15 14:45*	*12/17/15 17:08*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 1C-W-8-120915
Date Collected: 12/09/15 11:50
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-3
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)	0.21		0.024	0.014	mg/L		12/15/15 14:45	12/17/15 17:28	1
Motor Oil (>C24-C36)	0.070	B	0.047	0.0093	mg/L		12/15/15 14:45	12/17/15 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*50 - 150*	*12/15/15 14:45*	*12/17/15 17:28*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 1B-W-23-120915
Date Collected: 12/09/15 14:50
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-4
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)	0.017	J	0.024	0.014	mg/L		12/15/15 14:45	12/17/15 17:49	1
Motor Oil (>C24-C36)	0.017	J B	0.047	0.0093	mg/L		12/15/15 14:45	12/17/15 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*12/15/15 14:45*	*12/17/15 17:49*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 2A-W-40-120915
Date Collected: 12/09/15 13:50
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-5
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)	0.018	J	0.024	0.014	mg/L		12/15/15 14:45	12/17/15 18:09	1
Motor Oil (>C24-C36)	0.017	J B	0.047	0.0093	mg/L		12/15/15 14:45	12/17/15 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*50 - 150*	*12/15/15 14:45*	*12/17/15 18:09*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 2A-W-41-121015
Date Collected: 12/10/15 11:15
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-6
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)	0.12		0.024	0.014	mg/L		12/15/15 14:45	12/17/15 18:29	1
Motor Oil (>C24-C36)	0.13	B	0.047	0.0093	mg/L		12/15/15 14:45	12/17/15 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*12/15/15 14:45*	*12/17/15 18:29*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 2A-W-42-120915
Date Collected: 12/09/15 11:40
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-7
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)	0.13		0.024	0.014	mg/L		12/15/15 14:45	12/17/15 18:50	1
Motor Oil (>C24-C36)	0.071	B	0.047	0.0093	mg/L		12/15/15 14:45	12/17/15 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*50 - 150*	*12/15/15 14:45*	*12/17/15 18:50*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 2A-W-10-121015
Date Collected: 12/10/15 09:30
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-8
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)	0.11		0.024	0.014	mg/L		12/15/15 14:45	12/17/15 19:10	1
Motor Oil (>C24-C36)	0.22	B	0.047	0.0093	mg/L		12/15/15 14:45	12/17/15 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*12/15/15 14:45*	*12/17/15 19:10*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: MW-3-121015
Date Collected: 12/10/15 09:30
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-9
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)	0.045		0.024	0.014	mg/L		12/15/15 14:45	12/17/15 19:31	1
Motor Oil (>C24-C36)	0.042	J B	0.048	0.0093	mg/L		12/15/15 14:45	12/17/15 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*50 - 150*	*12/15/15 14:45*	*12/17/15 19:31*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: MW-4-121015
Date Collected: 12/10/15 09:15
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-10
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)	0.053		0.024	0.014	mg/L		12/15/15 14:45	12/17/15 20:11	1
Motor Oil (>C24-C36)	0.11	B	0.047	0.0093	mg/L		12/15/15 14:45	12/17/15 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*12/15/15 14:45*	*12/17/15 20:11*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: GW-1-120915
Date Collected: 12/09/15 10:25
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-11
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)	0.031		0.024	0.014	mg/L		12/15/15 14:45	12/17/15 20:32	1
Motor Oil (>C24-C36)	0.041	J B	0.047	0.0093	mg/L		12/15/15 14:45	12/17/15 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*12/15/15 14:45*	*12/17/15 20:32*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: GW-10-120915
Date Collected: 12/09/15 10:28
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-12
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)	0.031		0.024	0.014	mg/L		12/15/15 14:45	12/17/15 20:52	1
Motor Oil (>C24-C36)	0.039	J B	0.048	0.0093	mg/L		12/15/15 14:45	12/17/15 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*148*		*50 - 150*	*12/15/15 14:45*	*12/17/15 20:52*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 2A-W-9-121015
Date Collected: 12/10/15 10:30
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-13
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)	0.46		0.024	0.014	mg/L		12/15/15 14:45	12/17/15 21:13	1
Motor Oil (>C24-C36)	0.12	B	0.047	0.0093	mg/L		12/15/15 14:45	12/17/15 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*50 - 150*	*12/15/15 14:45*	*12/17/15 21:13*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 2B-W-4-121015
Date Collected: 12/10/15 10:55
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-14
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)	0.020	J	0.024	0.014	mg/L		12/15/15 14:45	12/17/15 21:33	1
Motor Oil (>C24-C36)	0.032	J B	0.047	0.0093	mg/L		12/15/15 14:45	12/17/15 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*12/15/15 14:45*	*12/17/15 21:33*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: GW-2-120915
Date Collected: 12/09/15 12:20
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-15
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)	0.082		0.024	0.014	mg/L		12/15/15 14:45	12/17/15 21:53	1
Motor Oil (>C24-C36)	0.061	B	0.048	0.0093	mg/L		12/15/15 14:45	12/17/15 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*50 - 150*	*12/15/15 14:45*	*12/17/15 21:53*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S3-AU-120815
Date Collected: 12/08/15 14:36
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-16
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)	0.033		0.024	0.014	mg/L		12/16/15 11:17	12/18/15 03:39	1
Motor Oil (>C24-C36)	0.017	J	0.048	0.0093	mg/L		12/16/15 11:17	12/18/15 03:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*50 - 150*	*12/16/15 11:17*	*12/18/15 03:39*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S3-BD-120815
Date Collected: 12/08/15 13:55
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-17
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)	ND		0.024	0.014	mg/L		12/16/15 11:17	12/18/15 03:59	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		12/16/15 11:17	12/18/15 03:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*12/16/15 11:17*	*12/18/15 03:59*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S3-BU-120815
Date Collected: 12/08/15 14:00
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-18
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)	0.019	J	0.024	0.014	mg/L		12/16/15 11:17	12/18/15 09:17	1
Motor Oil (>C24-C36)	0.048		0.047	0.0093	mg/L		12/16/15 11:17	12/18/15 09:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*50 - 150*	*12/16/15 11:17*	*12/18/15 09:17*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S3-CD-120815
Date Collected: 12/08/15 13:25
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-19
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)	ND		0.024	0.014	mg/L		12/16/15 11:17	12/18/15 09:37	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		12/16/15 11:17	12/18/15 09:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*12/16/15 11:17*	*12/18/15 09:37*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S3-CU-120815
Date Collected: 12/08/15 13:26
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-20
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)	ND		0.024	0.014	mg/L		12/16/15 11:17	12/18/15 13:03	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		12/16/15 11:17	12/18/15 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*12/16/15 11:17*	*12/18/15 13:03*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S4-AD-120815
Date Collected: 12/08/15 11:30
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-21
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)	ND		0.024	0.014	mg/L		12/16/15 11:17	12/18/15 13:24	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		12/16/15 11:17	12/18/15 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*12/16/15 11:17*	*12/18/15 13:24*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S4-AU-120815
Date Collected: 12/08/15 12:00
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-22
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)	0.015	J	0.024	0.014	mg/L		12/16/15 11:17	12/18/15 13:45	1
Motor Oil (>C24-C36)	0.037	J	0.048	0.0093	mg/L		12/16/15 11:17	12/18/15 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93*		*50 - 150*	*12/16/15 11:17*	*12/18/15 13:45*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S4-BD-120815
Date Collected: 12/08/15 09:21
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-23
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)	ND		0.024	0.014	mg/L		12/16/15 11:17	12/18/15 14:05	1
Motor Oil (>C24-C36)	**0.017**	**J**	0.047	0.0093	mg/L		12/16/15 11:17	12/18/15 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*50 - 150*	*12/16/15 11:17*	*12/18/15 14:05*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S4-BU-120815
Date Collected: 12/08/15 10:05
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-24
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)	0.024		0.024	0.014	mg/L		12/16/15 11:17	12/18/15 14:26	1
Motor Oil (>C24-C36)	0.081		0.048	0.0093	mg/L		12/16/15 11:17	12/18/15 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*50 - 150*	*12/16/15 11:17*	*12/18/15 14:26*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S4-CD-120815
Date Collected: 12/08/15 09:20
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-25
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)	ND		0.024	0.014	mg/L		12/16/15 11:17	12/18/15 14:46	1
Motor Oil (>C24-C36)	**0.016**	**J**	0.047	0.0093	mg/L		12/16/15 11:17	12/18/15 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*12/16/15 11:17*	*12/18/15 14:46*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S4-CU-120815
Date Collected: 12/08/15 11:02
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-26
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)	0.071		0.024	0.014	mg/L		12/16/15 11:17	12/18/15 15:07	1
Motor Oil (>C24-C36)	0.023	J	0.047	0.0093	mg/L		12/16/15 11:17	12/18/15 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*12/16/15 11:17*	*12/18/15 15:07*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 5-W-14-120815
Date Collected: 12/08/15 15:30
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-27
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)	ND		0.024	0.014	mg/L		12/16/15 11:17	12/18/15 15:27	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		12/16/15 11:17	12/18/15 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*12/16/15 11:17*	*12/18/15 15:27*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 5-W-15-120915
Date Collected: 12/09/15 16:50
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-28
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)	0.088		0.024	0.014	mg/L		12/16/15 11:17	12/18/15 15:47	1
Motor Oil (>C24-C36)	0.069		0.047	0.0093	mg/L		12/16/15 11:17	12/18/15 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*50 - 150*	*12/16/15 11:17*	*12/18/15 15:47*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 5-W-16-120815
Date Collected: 12/08/15 12:00
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-29
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)	0.015	J	0.024	0.014	mg/L		12/16/15 11:17	12/18/15 16:09	1
Motor Oil (>C24-C36)	0.012	J	0.048	0.0093	mg/L		12/16/15 11:17	12/18/15 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*12/16/15 11:17*	*12/18/15 16:09*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 5-W-160-120815
Date Collected: 12/08/15 12:05
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-30
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)	**0.014**	**J**	0.024	0.014	mg/L		12/16/15 11:17	12/18/15 16:50	1
Motor Oil (>C24-C36)	ND		0.048	0.0093	mg/L		12/16/15 11:17	12/18/15 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*50 - 150*	*12/16/15 11:17*	*12/18/15 16:50*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: GW-20-120915
Date Collected: 12/09/15 12:25
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-31
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)	0.084		0.024	0.014	mg/L		12/16/15 11:17	12/18/15 17:10	1
Motor Oil (>C24-C36)	0.062		0.047	0.0093	mg/L		12/16/15 11:17	12/18/15 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*50 - 150*	*12/16/15 11:17*	*12/18/15 17:10*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: GW-3-120915
Date Collected: 12/09/15 14:45
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-32
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)	0.088		0.024	0.014	mg/L		12/17/15 12:17	12/18/15 20:55	1
Motor Oil (>C24-C36)	0.068		0.047	0.0093	mg/L		12/17/15 12:17	12/18/15 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*12/17/15 12:17*	*12/18/15 20:55*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: GW-30-120915
Date Collected: 12/09/15 15:00
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-33
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)	0.088		0.024	0.014	mg/L		12/17/15 12:17	12/18/15 21:16	1
Motor Oil (>C24-C36)	0.050		0.047	0.0093	mg/L		12/17/15 12:17	12/18/15 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*50 - 150*	*12/17/15 12:17*	*12/18/15 21:16*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: GW-4-120915
Date Collected: 12/09/15 10:10
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-34
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)	0.077		0.024	0.014	mg/L		12/17/15 12:17	12/18/15 21:36	1
Motor Oil (>C24-C36)	0.051		0.047	0.0093	mg/L		12/17/15 12:17	12/18/15 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*12/17/15 12:17*	*12/18/15 21:36*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: EW-2A-120915
Date Collected: 12/09/15 10:15
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-35
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)	0.040		0.024	0.014	mg/L		12/17/15 12:17	12/18/15 21:57	1
Motor Oil (>C24-C36)	0.047	J	0.048	0.0093	mg/L		12/17/15 12:17	12/18/15 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*50 - 150*	*12/17/15 12:17*	*12/18/15 21:57*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: EW-1-120915
Date Collected: 12/09/15 16:30
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-36
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)	0.041		0.024	0.014	mg/L		12/17/15 12:17	12/18/15 22:17	1
Motor Oil (>C24-C36)	0.065		0.047	0.0093	mg/L		12/17/15 12:17	12/18/15 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*12/17/15 12:17*	*12/18/15 22:17*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S1-AD-120815
Date Collected: 12/08/15 16:41
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-37
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)	ND		0.024	0.014	mg/L		12/17/15 12:17	12/18/15 22:37	1
Motor Oil (>C24-C36)	**0.0097**	**J**	0.047	0.0093	mg/L		12/17/15 12:17	12/18/15 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*12/17/15 12:17*	*12/18/15 22:37*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S1-AU-120815
Date Collected: 12/08/15 16:40
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-38
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)	ND		0.024	0.014	mg/L		12/17/15 12:17	12/18/15 22:58	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		12/17/15 12:17	12/18/15 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*50 - 150*	*12/17/15 12:17*	*12/18/15 22:58*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S1-BD-120815
Date Collected: 12/08/15 16:02
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-39
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)	0.023	J	0.024	0.014	mg/L		12/17/15 12:17	12/18/15 23:39	1
Motor Oil (>C24-C36)	0.028	J	0.047	0.0093	mg/L		12/17/15 12:17	12/18/15 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*96*		*50 - 150*	*12/17/15 12:17*	*12/18/15 23:39*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S1-BU-120815
Date Collected: 12/08/15 16:30
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-40
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)	ND		0.024	0.014	mg/L		12/17/15 12:17	12/18/15 23:59	1
Motor Oil (>C24-C36)	**0.020**	**J**	0.047	0.0093	mg/L		12/17/15 12:17	12/18/15 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*50 - 150*	*12/17/15 12:17*	*12/18/15 23:59*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S2-AD-120815
Date Collected: 12/08/15 16:06
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-41
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)	ND		0.024	0.014	mg/L		12/17/15 12:17	12/19/15 00:19	1
Motor Oil (>C24-C36)	**0.0099**	**J**	0.047	0.0093	mg/L		12/17/15 12:17	12/19/15 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*50 - 150*	*12/17/15 12:17*	*12/19/15 00:19*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S2-AU-120815
Date Collected: 12/08/15 16:05
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-42
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)	ND		0.024	0.014	mg/L		12/17/15 12:17	12/19/15 00:40	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		12/17/15 12:17	12/19/15 00:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*50 - 150*	*12/17/15 12:17*	*12/19/15 00:40*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S2-BD-120815
Date Collected: 12/08/15 15:33
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-43
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)	ND		0.024	0.014	mg/L		12/17/15 12:17	12/19/15 01:00	1
Motor Oil (>C24-C36)	**0.010**	**J**	0.047	0.0093	mg/L		12/17/15 12:17	12/19/15 01:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*98*		*50 - 150*	*12/17/15 12:17*	*12/19/15 01:00*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S2-BU-120815
Date Collected: 12/08/15 15:34
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-44
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)	ND		0.024	0.014	mg/L		12/17/15 12:17	12/19/15 01:20	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		12/17/15 12:17	12/19/15 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*12/17/15 12:17*	*12/19/15 01:20*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S3-AD-120815
Date Collected: 12/08/15 14:35
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-45
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)	ND		0.024	0.014	mg/L		12/17/15 12:17	12/19/15 01:41	1
Motor Oil (>C24-C36)	ND		0.047	0.0093	mg/L		12/17/15 12:17	12/19/15 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*12/17/15 12:17*	*12/19/15 01:41*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 5-W-17-120815
Date Collected: 12/08/15 14:05
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-46
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)	0.032		0.024	0.014	mg/L		12/17/15 12:17	12/19/15 02:01	1
Motor Oil (>C24-C36)	0.030	J	0.047	0.0093	mg/L		12/17/15 12:17	12/19/15 02:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*12/17/15 12:17*	*12/19/15 02:01*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 5-W-18-120915
Date Collected: 12/09/15 15:08
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-47
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)	0.032		0.024	0.014	mg/L		12/17/15 12:17	12/19/15 02:21	1
Motor Oil (>C24-C36)	0.029	J	0.047	0.0093	mg/L		12/17/15 12:17	12/19/15 02:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*50 - 150*	*12/17/15 12:17*	*12/19/15 02:21*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 5-W-19-120815
Date Collected: 12/08/15 10:25
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-48
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)	ND		0.024	0.014	mg/L		12/17/15 12:17	12/19/15 02:42	1
Motor Oil (>C24-C36)	ND		0.048	0.0093	mg/L		12/17/15 12:17	12/19/15 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*50 - 150*	*12/17/15 12:17*	*12/19/15 02:42*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 1B-W-3-121015
Date Collected: 12/10/15 09:05
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-49
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)	0.022	J	0.024	0.014	mg/L		12/17/15 12:17	12/19/15 03:22	1
Motor Oil (>C24-C36)	0.029	J	0.047	0.0093	mg/L		12/17/15 12:17	12/19/15 03:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*12/17/15 12:17*	*12/19/15 03:22*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 1B-W-30-121015
Date Collected: 12/10/15 09:15
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-50
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)	0.023	J	0.024	0.014	mg/L		12/17/15 12:17	12/19/15 03:42	1
Motor Oil (>C24-C36)	0.031	J	0.047	0.0093	mg/L		12/17/15 12:17	12/19/15 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*50 - 150*	*12/17/15 12:17*	*12/19/15 03:42*	*1*

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 5-W-43-121015
Date Collected: 12/10/15 11:32
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-51
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)	0.026		0.024	0.014	mg/L		12/17/15 12:17	12/19/15 04:03	1
Motor Oil (>C24-C36)	0.033	J	0.047	0.0093	mg/L		12/17/15 12:17	12/19/15 04:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*50 - 150*	*12/17/15 12:17*	*12/19/15 04:03*	*1*

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

Lab Sample ID: MB 580-207883/1-A
Matrix: Water
Analysis Batch: 208055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 207883

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		12/15/15 14:45	12/17/15 14:15	1
Motor Oil (>C24-C36)	0.0116	J	0.050	0.0098	mg/L		12/15/15 14:45	12/17/15 14:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93*		*50 - 150*	*12/15/15 14:45*	*12/17/15 14:15*	*1*

Lab Sample ID: LCS 580-207883/2-A
Matrix: Water
Analysis Batch: 208055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 207883

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.440		mg/L		88	59 - 120
Motor Oil (>C24-C36)	0.502	0.488		mg/L		97	71 - 140

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

Lab Sample ID: LCSD 580-207883/3-A
Matrix: Water
Analysis Batch: 208055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 207883

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	0.500	0.481		mg/L		96	59 - 120	9	27
Motor Oil (>C24-C36)	0.502	0.518		mg/L		103	71 - 140	6	27

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

Lab Sample ID: MB 580-207976/1-A
Matrix: Water
Analysis Batch: 208055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 207976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		12/16/15 11:17	12/18/15 01:37	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		12/16/15 11:17	12/18/15 01:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*50 - 150*	*12/16/15 11:17*	*12/18/15 01:37*	*1*

Lab Sample ID: LCS 580-207976/2-A
Matrix: Water
Analysis Batch: 208055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 207976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	0.500	0.416		mg/L		83	59 - 120
Motor Oil (>C24-C36)	0.502	0.489		mg/L		97	71 - 140

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

Lab Sample ID: LCS 580-207976/2-A
Matrix: Water
Analysis Batch: 208055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 207976

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	81		50 - 150

Lab Sample ID: LCSD 580-207976/3-A
Matrix: Water
Analysis Batch: 208055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 207976

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.440		mg/L		88	59 - 120	6	27
Motor Oil (>C24-C36)			0.502	0.459		mg/L		92	71 - 140	6	27

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	79		50 - 150

Lab Sample ID: MB 580-208085/1-A
Matrix: Water
Analysis Batch: 208153

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.025	0.015	mg/L		12/17/15 12:17	12/18/15 19:54	1
Motor Oil (>C24-C36)	ND		0.050	0.0098	mg/L		12/17/15 12:17	12/18/15 19:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	84		50 - 150	12/17/15 12:17	12/18/15 19:54	1

Lab Sample ID: LCS 580-208085/2-A
Matrix: Water
Analysis Batch: 208153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208085

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)			0.500	0.419		mg/L		84	59 - 120
Motor Oil (>C24-C36)			0.502	0.499		mg/L		100	71 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	82		50 - 150

Lab Sample ID: LCSD 580-208085/3-A
Matrix: Water
Analysis Batch: 208153

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 208085

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			0.500	0.468		mg/L		94	59 - 120	11	27
Motor Oil (>C24-C36)			0.502	0.500		mg/L		100	71 - 140	0	27

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	85		50 - 150

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 1C-W-1-120915
Lab Sample ID: 580-55846-1
Date Collected: 12/09/15 13:25
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207883	12/15/15 14:45	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208055	12/17/15 16:48	KZ1	TAL SEA

Client Sample ID: 1C-W-7-120915
Lab Sample ID: 580-55846-2
Date Collected: 12/09/15 13:00
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207883	12/15/15 14:45	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208055	12/17/15 17:08	KZ1	TAL SEA

Client Sample ID: 1C-W-8-120915
Lab Sample ID: 580-55846-3
Date Collected: 12/09/15 11:50
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207883	12/15/15 14:45	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208055	12/17/15 17:28	KZ1	TAL SEA

Client Sample ID: 1B-W-23-120915
Lab Sample ID: 580-55846-4
Date Collected: 12/09/15 14:50
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207883	12/15/15 14:45	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208055	12/17/15 17:49	KZ1	TAL SEA

Client Sample ID: 2A-W-40-120915
Lab Sample ID: 580-55846-5
Date Collected: 12/09/15 13:50
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207883	12/15/15 14:45	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208055	12/17/15 18:09	KZ1	TAL SEA

Client Sample ID: 2A-W-41-121015
Lab Sample ID: 580-55846-6
Date Collected: 12/10/15 11:15
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207883	12/15/15 14:45	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208055	12/17/15 18:29	KZ1	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 2A-W-42-120915
Lab Sample ID: 580-55846-7
Date Collected: 12/09/15 11:40
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207883	12/15/15 14:45	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208055	12/17/15 18:50	KZ1	TAL SEA

Client Sample ID: 2A-W-10-121015
Lab Sample ID: 580-55846-8
Date Collected: 12/10/15 09:30
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207883	12/15/15 14:45	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208055	12/17/15 19:10	KZ1	TAL SEA

Client Sample ID: MW-3-121015
Lab Sample ID: 580-55846-9
Date Collected: 12/10/15 09:30
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207883	12/15/15 14:45	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208055	12/17/15 19:31	KZ1	TAL SEA

Client Sample ID: MW-4-121015
Lab Sample ID: 580-55846-10
Date Collected: 12/10/15 09:15
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207883	12/15/15 14:45	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208055	12/17/15 20:11	KZ1	TAL SEA

Client Sample ID: GW-1-120915
Lab Sample ID: 580-55846-11
Date Collected: 12/09/15 10:25
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207883	12/15/15 14:45	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208055	12/17/15 20:32	KZ1	TAL SEA

Client Sample ID: GW-10-120915
Lab Sample ID: 580-55846-12
Date Collected: 12/09/15 10:28
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207883	12/15/15 14:45	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208055	12/17/15 20:52	KZ1	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 2A-W-9-121015
Date Collected: 12/10/15 10:30
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207883	12/15/15 14:45	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208055	12/17/15 21:13	KZ1	TAL SEA

Client Sample ID: 2B-W-4-121015
Date Collected: 12/10/15 10:55
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207883	12/15/15 14:45	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208055	12/17/15 21:33	KZ1	TAL SEA

Client Sample ID: GW-2-120915
Date Collected: 12/09/15 12:20
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207883	12/15/15 14:45	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208055	12/17/15 21:53	KZ1	TAL SEA

Client Sample ID: S3-AU-120815
Date Collected: 12/08/15 14:36
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207976	12/16/15 11:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208055	12/18/15 03:39	KZ1	TAL SEA

Client Sample ID: S3-BD-120815
Date Collected: 12/08/15 13:55
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207976	12/16/15 11:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208055	12/18/15 03:59	KZ1	TAL SEA

Client Sample ID: S3-BU-120815
Date Collected: 12/08/15 14:00
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207976	12/16/15 11:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208055	12/18/15 09:17	KZ1	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S3-CD-120815
Lab Sample ID: 580-55846-19
Date Collected: 12/08/15 13:25
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207976	12/16/15 11:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208055	12/18/15 09:37	KZ1	TAL SEA

Client Sample ID: S3-CU-120815
Lab Sample ID: 580-55846-20
Date Collected: 12/08/15 13:26
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207976	12/16/15 11:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 13:03	KZ1	TAL SEA

Client Sample ID: S4-AD-120815
Lab Sample ID: 580-55846-21
Date Collected: 12/08/15 11:30
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207976	12/16/15 11:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 13:24	KZ1	TAL SEA

Client Sample ID: S4-AU-120815
Lab Sample ID: 580-55846-22
Date Collected: 12/08/15 12:00
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207976	12/16/15 11:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 13:45	KZ1	TAL SEA

Client Sample ID: S4-BD-120815
Lab Sample ID: 580-55846-23
Date Collected: 12/08/15 09:21
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207976	12/16/15 11:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 14:05	KZ1	TAL SEA

Client Sample ID: S4-BU-120815
Lab Sample ID: 580-55846-24
Date Collected: 12/08/15 10:05
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207976	12/16/15 11:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 14:26	KZ1	TAL SEA

Client Sample ID: S4-CD-120815

Lab Sample ID: 580-55846-25

Date Collected: 12/08/15 09:20

Matrix: Water

Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207976	12/16/15 11:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 14:46	KZ1	TAL SEA

Client Sample ID: S4-CU-120815

Lab Sample ID: 580-55846-26

Date Collected: 12/08/15 11:02

Matrix: Water

Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207976	12/16/15 11:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 15:07	KZ1	TAL SEA

Client Sample ID: 5-W-14-120815

Lab Sample ID: 580-55846-27

Date Collected: 12/08/15 15:30

Matrix: Water

Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207976	12/16/15 11:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 15:27	KZ1	TAL SEA

Client Sample ID: 5-W-15-120915

Lab Sample ID: 580-55846-28

Date Collected: 12/09/15 16:50

Matrix: Water

Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207976	12/16/15 11:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 15:47	KZ1	TAL SEA

Client Sample ID: 5-W-16-120815

Lab Sample ID: 580-55846-29

Date Collected: 12/08/15 12:00

Matrix: Water

Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207976	12/16/15 11:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 16:09	KZ1	TAL SEA

Client Sample ID: 5-W-160-120815

Lab Sample ID: 580-55846-30

Date Collected: 12/08/15 12:05

Matrix: Water

Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207976	12/16/15 11:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 16:50	KZ1	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: GW-20-120915
Lab Sample ID: 580-55846-31
Date Collected: 12/09/15 12:25
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			207976	12/16/15 11:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 17:10	KZ1	TAL SEA

Client Sample ID: GW-3-120915
Lab Sample ID: 580-55846-32
Date Collected: 12/09/15 14:45
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			208085	12/17/15 12:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 20:55	KZ1	TAL SEA

Client Sample ID: GW-30-120915
Lab Sample ID: 580-55846-33
Date Collected: 12/09/15 15:00
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			208085	12/17/15 12:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 21:16	KZ1	TAL SEA

Client Sample ID: GW-4-120915
Lab Sample ID: 580-55846-34
Date Collected: 12/09/15 10:10
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			208085	12/17/15 12:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 21:36	KZ1	TAL SEA

Client Sample ID: EW-2A-120915
Lab Sample ID: 580-55846-35
Date Collected: 12/09/15 10:15
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			208085	12/17/15 12:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 21:57	KZ1	TAL SEA

Client Sample ID: EW-1-120915
Lab Sample ID: 580-55846-36
Date Collected: 12/09/15 16:30
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			208085	12/17/15 12:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 22:17	KZ1	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S1-AD-120815
Date Collected: 12/08/15 16:41
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-37
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			208085	12/17/15 12:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 22:37	KZ1	TAL SEA

Client Sample ID: S1-AU-120815
Date Collected: 12/08/15 16:40
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-38
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			208085	12/17/15 12:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 22:58	KZ1	TAL SEA

Client Sample ID: S1-BD-120815
Date Collected: 12/08/15 16:02
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-39
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			208085	12/17/15 12:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 23:39	KZ1	TAL SEA

Client Sample ID: S1-BU-120815
Date Collected: 12/08/15 16:30
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-40
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			208085	12/17/15 12:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/18/15 23:59	KZ1	TAL SEA

Client Sample ID: S2-AD-120815
Date Collected: 12/08/15 16:06
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-41
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			208085	12/17/15 12:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/19/15 00:19	KZ1	TAL SEA

Client Sample ID: S2-AU-120815
Date Collected: 12/08/15 16:05
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-42
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			208085	12/17/15 12:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/19/15 00:40	KZ1	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: S2-BD-120815
Lab Sample ID: 580-55846-43
Date Collected: 12/08/15 15:33
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			208085	12/17/15 12:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/19/15 01:00	KZ1	TAL SEA

Client Sample ID: S2-BU-120815
Lab Sample ID: 580-55846-44
Date Collected: 12/08/15 15:34
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			208085	12/17/15 12:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/19/15 01:20	KZ1	TAL SEA

Client Sample ID: S3-AD-120815
Lab Sample ID: 580-55846-45
Date Collected: 12/08/15 14:35
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			208085	12/17/15 12:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/19/15 01:41	KZ1	TAL SEA

Client Sample ID: 5-W-17-120815
Lab Sample ID: 580-55846-46
Date Collected: 12/08/15 14:05
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			208085	12/17/15 12:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/19/15 02:01	KZ1	TAL SEA

Client Sample ID: 5-W-18-120915
Lab Sample ID: 580-55846-47
Date Collected: 12/09/15 15:08
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			208085	12/17/15 12:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/19/15 02:21	KZ1	TAL SEA

Client Sample ID: 5-W-19-120815
Lab Sample ID: 580-55846-48
Date Collected: 12/08/15 10:25
Matrix: Water
Date Received: 12/11/15 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			208085	12/17/15 12:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/19/15 02:42	KZ1	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Client Sample ID: 1B-W-3-121015

Date Collected: 12/10/15 09:05
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-49
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			208085	12/17/15 12:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/19/15 03:22	KZ1	TAL SEA

Client Sample ID: 1B-W-30-121015

Date Collected: 12/10/15 09:15
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-50
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			208085	12/17/15 12:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/19/15 03:42	KZ1	TAL SEA

Client Sample ID: 5-W-43-121015

Date Collected: 12/10/15 11:32
Date Received: 12/11/15 11:45

Lab Sample ID: 580-55846-51
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			208085	12/17/15 12:17	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	208153	12/19/15 04:03	KZ1	TAL SEA

Laboratory References:

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

Certification Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Laboratory: TestAmerica Seattle

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-16
California	State Program	9	2901	01-31-17
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-16
US Fish & Wildlife	Federal		LE058448-0	02-28-16
USDA	Federal		P330-14-00126	04-08-17
Washington	State Program	10	C553	02-17-16

Sample Summary

Client: Farallon Consulting LLC
Project/Site: BNSF Skykomish Ground Water

TestAmerica Job ID: 580-55846-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-55846-1	1C-W-1-120915	Water	12/09/15 13:25	12/11/15 11:45
580-55846-2	1C-W-7-120915	Water	12/09/15 13:00	12/11/15 11:45
580-55846-3	1C-W-8-120915	Water	12/09/15 11:50	12/11/15 11:45
580-55846-4	1B-W-23-120915	Water	12/09/15 14:50	12/11/15 11:45
580-55846-5	2A-W-40-120915	Water	12/09/15 13:50	12/11/15 11:45
580-55846-6	2A-W-41-121015	Water	12/10/15 11:15	12/11/15 11:45
580-55846-7	2A-W-42-120915	Water	12/09/15 11:40	12/11/15 11:45
580-55846-8	2A-W-10-121015	Water	12/10/15 09:30	12/11/15 11:45
580-55846-9	MW-3-121015	Water	12/10/15 09:30	12/11/15 11:45
580-55846-10	MW-4-121015	Water	12/10/15 09:15	12/11/15 11:45
580-55846-11	GW-1-120915	Water	12/09/15 10:25	12/11/15 11:45
580-55846-12	GW-10-120915	Water	12/09/15 10:28	12/11/15 11:45
580-55846-13	2A-W-9-121015	Water	12/10/15 10:30	12/11/15 11:45
580-55846-14	2B-W-4-121015	Water	12/10/15 10:55	12/11/15 11:45
580-55846-15	GW-2-120915	Water	12/09/15 12:20	12/11/15 11:45
580-55846-16	S3-AU-120815	Water	12/08/15 14:36	12/11/15 11:45
580-55846-17	S3-BD-120815	Water	12/08/15 13:55	12/11/15 11:45
580-55846-18	S3-BU-120815	Water	12/08/15 14:00	12/11/15 11:45
580-55846-19	S3-CD-120815	Water	12/08/15 13:25	12/11/15 11:45
580-55846-20	S3-CU-120815	Water	12/08/15 13:26	12/11/15 11:45
580-55846-21	S4-AD-120815	Water	12/08/15 11:30	12/11/15 11:45
580-55846-22	S4-AU-120815	Water	12/08/15 12:00	12/11/15 11:45
580-55846-23	S4-BD-120815	Water	12/08/15 09:21	12/11/15 11:45
580-55846-24	S4-BU-120815	Water	12/08/15 10:05	12/11/15 11:45
580-55846-25	S4-CD-120815	Water	12/08/15 09:20	12/11/15 11:45
580-55846-26	S4-CU-120815	Water	12/08/15 11:02	12/11/15 11:45
580-55846-27	5-W-14-120815	Water	12/08/15 15:30	12/11/15 11:45
580-55846-28	5-W-15-120915	Water	12/09/15 16:50	12/11/15 11:45
580-55846-29	5-W-16-120815	Water	12/08/15 12:00	12/11/15 11:45
580-55846-30	5-W-160-120815	Water	12/08/15 12:05	12/11/15 11:45
580-55846-31	GW-20-120915	Water	12/09/15 12:25	12/11/15 11:45
580-55846-32	GW-3-120915	Water	12/09/15 14:45	12/11/15 11:45
580-55846-33	GW-30-120915	Water	12/09/15 15:00	12/11/15 11:45
580-55846-34	GW-4-120915	Water	12/09/15 10:10	12/11/15 11:45
580-55846-35	EW-2A-120915	Water	12/09/15 10:15	12/11/15 11:45
580-55846-36	EW-1-120915	Water	12/09/15 16:30	12/11/15 11:45
580-55846-37	S1-AD-120815	Water	12/08/15 16:41	12/11/15 11:45
580-55846-38	S1-AU-120815	Water	12/08/15 16:40	12/11/15 11:45
580-55846-39	S1-BD-120815	Water	12/08/15 16:02	12/11/15 11:45
580-55846-40	S1-BU-120815	Water	12/08/15 16:30	12/11/15 11:45
580-55846-41	S2-AD-120815	Water	12/08/15 16:06	12/11/15 11:45
580-55846-42	S2-AU-120815	Water	12/08/15 16:05	12/11/15 11:45
580-55846-43	S2-BD-120815	Water	12/08/15 15:33	12/11/15 11:45
580-55846-44	S2-BU-120815	Water	12/08/15 15:34	12/11/15 11:45
580-55846-45	S3-AD-120815	Water	12/08/15 14:35	12/11/15 11:45
580-55846-46	5-W-17-120815	Water	12/08/15 14:05	12/11/15 11:45
580-55846-47	5-W-18-120915	Water	12/09/15 15:08	12/11/15 11:45
580-55846-48	5-W-19-120815	Water	12/08/15 10:25	12/11/15 11:45
580-55846-49	1B-W-3-121015	Water	12/10/15 09:05	12/11/15 11:45
580-55846-50	1B-W-30-121015	Water	12/10/15 09:15	12/11/15 11:45
580-55846-51	5-W-43-121015	Water	12/10/15 11:32	12/11/15 11:45

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: | Project Manager:
Address: | Phone:
City/State/ZIP: | Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number: | Project State of Origin:
BNSF Project Name: | Project City:
BNSF Contact: | BNSF Work Order No.:

CONSULTANT INFORMATION

Company: FARALLON
Address: 975 5TH AVE NW
City/State/ZIP: ISSAQUAH, WA 98027

Project Number: 683-043
Project Manager: JERRY PORTELE
Email: JPORTELE@FARALLONCONSULTING.COM
Phone: 425-295-0839 Fax:

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 2-day Rush
- [ ] 3-day Rush
- [ ] 5- to 8-day Rush
- [x] Standard 10-Day
- [ ] Other _____

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables? _____
- [ ] EDD Req, Format? _____

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	8270 SIM PAH	NWTPH - DX	COMMENTS	LAB USE
1	1C-W-1-120915	2	12/9/15	13:25	MB	N	GRAB	H_2O		X		
2	1C-W-7-120915	2	12/9/15	13:00	AT	N				X		
3	1C-W-8-120915	2	12/9/15	11:50	MB	N				X		
4	1B-W-23-120915	2	12/9/15	14:50	MB	N				X		
5	2A-W-40-120915	2	12/9/15	13:50	DK	N				X		
6	2A-W-41-121015	2	12/10/15	11:15	AT	N				X		
7	2A-W-42-120915	2	12/9/15	11:40	AT	N				X		
8	2A-W-10-121015	2	12/10/15	9:30	DK	N				X		
9	MW-3-121015	2	12/10/15	9:30	MB	N				X		
10	MW-4-121015	2	12/10/15	9:15	DK	N				X		
11	GW-1-120915	2	12/9/15	10:25	DK	N				X		
12	GW-10-120915	2	12/9/15	10:28	DK	N				X		
13	2A-W-9-121015	2	12/10/15	10:30	DK	N				X		
14	2B-W-4-121015	2	12/10/15	10:55	MB	N				X		
15	GW-2-120915	2	12/9/15	12:20	DK	N				X		

580-55846 Chain of Custody

	Date/Time		Date/Time	
Relinquished By:	12/11/15 1125	Received By:	12/11/15 1145	Comments and Special Analytical Requirements:
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab: Custody Intact? ☐ Yes ☐ No	Custody Seal No. / BNSF COC No

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES | DUPLICATE - CONSULTANT | TAL-1001 (0912)

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: | Project Manager:
Address: | Phone:
City/State/ZIP: | Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number: | Project State of Origin:
BNSF Project Name: | Project City:
BNSF Contact: | BNSF Work Order No.:

CONSULTANT INFORMATION

Company: FARALLON
Address: 975 5TH AVE NW
City/State/ZIP: ISSAQUAH, WA 98027
Project Number: 683-043
Project Manager: JERRY PORTELE
Email: JPORTELE@FARALLONCONSULTING.COM
Phone: 425-295-0839 Fax:

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 2-day Rush
- [ ] 3-day Rush
- [ ] 5- to 8-day Rush
- [x] Standard 10-Day
- [ ] Other

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables?
- [ ] EDD Req, Format?

SAMPLE INFORMATION

	Sample Identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	METHODS FOR ANALYSIS: NWTPH-Dx	COMMENTS	LAB USE
1	S3-AU-120815	2	12/8/15	14:36	AT	N	GRAB	H2O	X		
2	S3-BD-120815	2	12/8/15	13:55	AT	N			X		
3	S3-BU-120815	2	12/8/15	14:00	AT	N			X		
4	S3-CD-120815	2	12/8/15	13:25	AT	N			X		
5	S3-CU-120815	2	12/8/15	13:26	AT	N			X		
6	S4-AD-120815	2	12/8/15	11:30	AT	N			X		
7	S4-AU-120815	2	12/8/15	12:00	MR	N			X		
8	S4-BD-120815	2	12/8/15	9:21	MR	N			X		
9	S4-BU-120815	2	12/8/15	10:05	MR	N			X		
10	S4-CD-120815	2	12/8/15	9:20	AT	N			X		
11	S4-CU-120815	2	12/8/15	11:02	AT	N			X		
12	S-W-14-120815	2	12/8/15	15:30	DK	N			X		
13	S-W-15-120915	2	12/9/15	16:50	DK	N			X		
14	S-W-16-120815	2	12/8/15	12:00	DK	N			X		
15	S-W-160-120815	2	12/8/15	12:05	DK	N			X		

Relinquished By:	Date/Time: 12/11 1125	Received By:	Date/Time: 12/11/15 1145	Comments and Special Analytical Requirements:
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab: Custody Intact? ☐ Yes ☐ No	Custody Seal No. / BNSF COC No

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES | DUPLICATE - CONSULTANT | TAL-1001 (0912)

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory:
Project Manager:
Address:
Phone:
City/State/ZIP:
Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin:
Project City:
BNSF Project Name:
BNSF Contact:
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: FARALLON
Address: 975 5TH AVE NW
City/State/ZIP: ISSAQUAH, WA 98027
Project Number: 683-043
Project Manager: JERRY PORTELE
Email: JPORTELE@FARALLONCONSULTING.COM
Phone: 425-295-0839
Fax:

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 5- to 8-day Rush
- [ ] 2-day Rush
- [x] Standard 10-Day
- [ ] 3-day Rush
- [ ] Other

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables?
- [ ] EDD Req, Format?

METHODS FOR ANALYSIS

NWTPH-DX

SAMPLE INFORMATION

	Sample Identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/ Grab)	Matrix	NWTPH-DX	COMMENTS	LAB USE
1	GW-20-120915	2	12/9/15	12:25	DK	N	GRAB	H2O	X		
2	GW-3-120915	2	12/9/15	14:45	AT	N			X		
3	GW-30-120915	2	12/9/15	15:00	AT	N			X		
4	GW-4-120915	2	12/9/15	10:10	AT	N			X		
5	EW-2A-120915	2	12/9/15	1015	MB	N			X		
6	EW-1-120915	2	12/9/15	16:30	AT	N			X		
7	S1-AD-120815	2	12/8/15	16:41	AT	N			X		
8	S1-AU-120815	2	12/8/15	16:40	AT	N			X		
9	S1-BD-120815	2	12/8/15	16:02	DK	N			X		
10	S1-BU-120815	2	12/8/15	16:30	DK	N			X		
11	S2-AD-120815	2	12/8/15	16:06	AT	N			X		
12	S2-AU-120815	2	12/8/15	16:05	AT	N			X		
13	S2-BD-120815	2	12/8/15	15:33	AT	N			X		
14	S2-BU-120815	2	12/8/15	15:34	AT	N			X		
15	S3-AD-120815	2	12/8/15	14:35	AT	N			X		

Relinquished By:	Date/Time: 12/11 1125	Received By:	Date/Time: 12/11/15 1145
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab: Custody Intact? ☐ Yes ☐ No

Comments and Special Analytical Requirements:

Custody Seal No.
BNSF COC No

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES
DUPLICATE - CONSULTANT
TAL-1001 (0912)

2/11/2016

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: | Project Manager:
Address: | Phone:
City/State/ZIP: | Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number: | Project State of Origin:
BNSF Project Name: | Project City:
BNSF Contact: | BNSF Work Order No.:

CONSULTANT INFORMATION

Company: FARALLON
Address: 975 5TH AVE NW
City/State/ZIP: ISSAQUAH, WA 98027

Project Number: 683-093
Project Manager: JERRY PORTELE
Email: JPORTELE@FARALLONCONSULTING.COM
Phone: 425-295-0839 Fax:

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 2-day Rush
- [ ] 3-day Rush
- [ ] 5- to 8-day Rush
- [x] Standard 10-Day
- [ ] Other

DELIVERABLES

- [ ] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables?
- [ ] EDD Req, Format?

METHODS FOR ANALYSIS

NWTPH-DX

SAMPLE INFORMATION

	Sample Identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	COMMENTS	LAB USE
1	S-W-17-120815	2	12/8/15	14:05	DK	N	GRAB	H_2O		
2	S-W-18-120915	2	12/9/15	15:08	DK	N				
3	S-W-19-120815	2	12/8/15	10:25	DK	N				
4	IB-W-3-121015	2	12/10/15	9:05	AT	N				
5	IB-W-30-121015	2	12/10/15	9:15	AT	N				
6	S-W-43-121015	2	12/10/15	11:32	MB	N				
7										
8										
9										
10										
11										
12										
13										
14										
15										

DP

Relinquished By:	Date/Time: 12/11 1125	Received By:	Date/Time: 12/11/15 1145	Comments and Special Analytical Requirements:
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab; Custody Intact? ☐ Yes ☐ No	Custody Seal No. / BNSF COC No

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES | DUPLICATE - CONSULTANT | TAL-1001 (0912)

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-55846-1

Login Number: 55846
List Number: 1
Creator: Simpson, Jennell 1

List Source: TestAmerica Seattle

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

APPENDIX B
DATA VALIDATION REPORTS

2015 SITE-WIDE
GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043

Sayler Data Solutions, Inc.
14257 93rd Court NE Kirkland, Washington 98034 (425) 820-7504 cari@saylerdata.com

DATA VALIDATION REPORT

Skykomish Groundwater Monitoring March 2015 Data

Prepared for:
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, Washington 98027

June 15, 2015

1.0 Introduction

Data Validation was performed on the following water samples:

Sample ID	Sample Date/Time	LabID	Analyses
1A-W-4-032515	03/25/2015 16:17	580-48478-56	NWTPH-Dx
1B-W-2-032615	03/26/2015 13:08	580-48478-57	NWTPH-Dx
1B-W-3-032615	03/26/2015 13:00	580-48478-58	NWTPH-Dx
1C-W-3-032615	03/26/2015 11:55	580-48478-59	NWTPH-Dx
1C-W-4-032615	03/26/2015 12:55	580-48478-60	NWTPH-Dx
2A-W-10-032515	03/25/2015 09:53	580-48478-11	NWTPH-Dx
2A-W-40-032515	03/25/2015 11:45	580-48478-6	NWTPH-Dx
2A-W-41-032515	03/25/2015 13:55	580-48478-7	NWTPH-Dx
2A-W-42-032415	03/24/2015 15:40	580-48478-8	NWTPH-Dx
2A-W-90-032515	03/25/2015 09:30	580-48478-13	NWTPH-Dx
2A-W-9-032515	03/25/2015 09:25	580-48478-12	NWTPH-Dx
2B-W-4-032515	03/25/2015 11:58	580-48478-14	NWTPH-Dx
5-W-14-032615	03/24/2015 09:23	580-48478-45	NWTPH-Dx
5-W-15-032615	03/26/2015 11:35	580-48478-46	NWTPH-Dx
5-W-160-032615	03/26/2015 11:40	580-48478-48	NWTPH-Dx
5-W-16-032615	03/26/2015 10:10	580-48478-47	NWTPH-Dx
5-W-17-032615	03/26/2015 11:35	580-48478-49	NWTPH-Dx
5-W-18-032515	03/25/2015 14:42	580-48478-50	NWTPH-Dx
5-W-19-032515	03/25/2015 13:56	580-48478-51	NWTPH-Dx
5-W-43-0-032415	03/24/2015 16:45	580-48478-10	NWTPH-Dx
5-W-43-032415	03/24/2015 16:30	580-48478-9	NWTPH-Dx
5-W-50-032515	03/25/2015 15:27	580-48478-52	NWTPH-Dx
5-W-54-032515	03/25/2015 16:30	580-48478-53	NWTPH-Dx
5-W-55-032515	03/25/2015 14:55	580-48478-54	NWTPH-Dx
5-W-56-032515	03/25/2015 15:45	580-48478-55	NWTPH-Dx
EW-1-032415	03/24/2015 15:45	580-48478-17	NWTPH-Dx
EW-2A-032415	03/24/2015 14:38	580-48478-18	NWTPH-Dx
GW-1-032515	03/25/2015 09:35	580-48478-19	NWTPH-Dx
GW-2-0-032515	03/25/2015 10:50	580-48478-21	NWTPH-Dx

Sample ID	Sample Date/Time	LabID	Analyses
GW-2-032515	03/25/2015 10:35	580-48478-20	NWTPH-Dx
GW-30-032415	03/24/2015 16:50	580-48478-23	NWTPH-Dx
GW-3-032415	03/24/2015 16:35	580-48478-22	NWTPH-Dx
GW-4-032415	03/24/2015 14:30	580-48478-24	NWTPH-Dx
IB-W-23-032415	03/24/2015 16:48	580-48478-5	NWTPH-Dx
IC-W-1-032615	03/26/2015 11:00	580-48478-1	NWTPH-Dx
IC-W-7-032415	03/24/2015 15:32	580-48478-2	NWTPH-Dx
IC-W-8-0-032615	03/26/2015 10:00	580-48478-4	NWTPH-Dx
IC-W-8-032615	03/26/2015 09:50	580-48478-3	NWTPH-Dx
MW-16-032515	03/25/2015 12:20	580-48478-61	NWTPH-Dx
MW-3-032515	03/25/2015 10:45	580-48478-15	NWTPH-Dx
MW-38R-032415	03/24/2015 14:45	580-48478-62	NWTPH-Dx
MW-4-032515	03/25/2015 10:50	580-48478-16	NWTPH-Dx
S1-AD-032415	03/24/2015 11:35	580-48478-25	NWTPH-Dx
S1-AU-032415	03/24/2015 12:00	580-48478-26	NWTPH-Dx
S1-BD-032415	03/24/2015 11:28	580-48478-27	NWTPH-Dx
S1-BU-032415	03/24/2015 12:30	580-48478-28	NWTPH-Dx
S2-AD-032415	03/24/2015 11:32	580-48478-29	NWTPH-Dx
S2-AU-032415	03/24/2015 12:03	580-48478-30	NWTPH-Dx
S2-BD-032415	03/24/2015 11:52	580-48478-31	NWTPH-Dx
S2-BU-032415	03/24/2015 11:23	580-48478-32	NWTPH-Dx
S3-AD-032415	03/24/2015 10:25	580-48478-33	NWTPH-Dx
S3-AU-032415	03/24/2015 10:52	580-48478-34	NWTPH-Dx
S3-BD-032415	03/24/2015 10:13	580-48478-35	NWTPH-Dx
S3-BU-032415	03/24/2015 10:45	580-48478-36	NWTPH-Dx
S3-CD-032415	03/24/2015 10:45	580-48478-37	NWTPH-Dx
S3-CU-032415	03/24/2015 10:15	580-48478-38	NWTPH-Dx
S4-AD-032415	03/24/2015 08:58	580-48478-39	NWTPH-Dx
S4-AU-032415	03/24/2015 09:38	580-48478-40	NWTPH-Dx
S4-BD-032415	03/24/2015 09:30	580-48478-41	NWTPH-Dx
S4-BU-032415	03/24/2015 09:20	580-48478-42	NWTPH-Dx
S4-CD-032415	03/24/2015 08:55	580-48478-43	NWTPH-Dx
S4-CU-032415	03/24/2015 08:55	580-48478-44	NWTPH-Dx

Samples were analyzed by Test America, Tacoma, Washington.

A stage 2A summary validation was performed on the analytical results including both the hardcopy (portable document format) and electronic data deliverable, earning EPA OSWER validation label code S2AVEM. Validation was performed by Cari Sayler.

Data qualifiers are assigned based only on the criteria reviewed and do not include calibration or instrument performance issues unless noted in the laboratory narrative. No qualifiers were assigned during this review.

2.0 Precision, Accuracy, Representativeness, Comparability, and Completeness

Sample analysis frequencies: Quarterly sampling includes 25 water sample locations, and semi-annual sampling includes an additional 32 water sample locations. This round of sampling includes quarterly and semi-annual locations. However, free product was present at location 5-W-51 and was not required to be sampled.

All required samples were collected and the required analysis was completed by the laboratory for each collected sample.

Analysis methods: Samples were analyzed by method NWTPH-Dx and prepared by method SW3510C. These methods are approved EPA methods and therefore meet comparability requirements.

Precision, accuracy and completeness: Precision and accuracy measurements were within laboratory control limits. No data were rejected.

A data completeness of 100 % was calculated based on 56 of 56 intended sample analyses completed. This meets the project goal of 90%.

3.0 Diesel Range Petroleum Hydrocarbon Analysis

Quality control analysis frequencies: The method specifies that a method blank must be analyzed one per analytical batch or one per twenty samples, whichever is more frequent, and a laboratory duplicate must be analyzed one per ten samples. In addition, surrogate compounds must be measured in each field and quality control sample.

Each batch included a method blank, laboratory control sample (LCS), and LCS duplicate (LCSD), as well as appropriate surrogates. Laboratory duplicates may have been analyzed but not reported because non-project samples were utilized. Data qualifiers are not required due to a lack of reported laboratory duplicate results.

Holding times: Unpreserved water samples must be extracted within 7 days of collection. Preserved water samples must be extracted within 14 days of collection. Extracts must be analyzed within 40 days of extraction. Samples were extracted and analyzed within holding time.

Laboratory blank results: Criteria for blanks are that analyte concentrations must be below the PQL, or below 5% of the lowest associated sample concentration. The following target compounds were detected in the method blanks:

Blank ID	Analyte	Concentration (mg/L)	RL (mg/L)
MB 580-186030/1-A	Motor Oil (>C24-C36)	0.0128 J	0.05
MB 580-186384/1-A	Motor Oil (>C24-C36)	0.0219 J	0.05

Results in the associated samples with concentrations less than 5 times these levels should be considered not detected at the reported concentration, and are qualified “U”. Results with concentrations between 5 and 10 times these levels are qualified as estimated. Results in above 10 times these levels are considered unaffected.

Surrogate recoveries: Laboratory control limits were 50-150%. Surrogate recoveries were within limits.

LCS recoveries: Laboratory control limits ranged from 59-120% to 71-140%. LCS recoveries were within limits.

LCS/LCSD RPDs: The laboratory control limit was <27%. LCS/LCSD RPD values were within limits.

Field duplicate RPDs: For concentrations below five times the reporting limits, concentrations were within +/- two times the reporting limit. For concentrations above five times the reporting limit, RPDs were below 50%.

Reporting limits: The reporting limit goals are 0.1 mg/L for both diesel range hydrocarbons and oil range hydrocarbons. These goals were met.

Laboratory narrative and flags: No other qualifiers were added based on a review of the laboratory narratives.

Diesel and oil range petroleum hydrocarbon data are acceptable for use as qualified.

4.0 Validation Qualifiers

Client ID	Analyte	Qualifier	Reason
1B-W-2-032615	Motor Oil (>C24-C36)	U	Blank Contamination
1B-W-3-032615	Motor Oil (>C24-C36)	U	Blank Contamination
1C-W-3-032615	Motor Oil (>C24-C36)	U	Blank Contamination
1C-W-4-032615	Motor Oil (>C24-C36)	U	Blank Contamination
2B-W-4-032515	Motor Oil (>C24-C36)	U	Blank Contamination
EW-1-032415	Motor Oil (>C24-C36)	U	Blank Contamination
EW-2A-032415	Motor Oil (>C24-C36)	U	Blank Contamination
GW-1-032515	Motor Oil (>C24-C36)	J	Blank Contamination
GW-30-032415	Motor Oil (>C24-C36)	J	Blank Contamination
GW-3-032415	Motor Oil (>C24-C36)	J	Blank Contamination
GW-4-032415	Motor Oil (>C24-C36)	J	Blank Contamination
MW-3-032515	Motor Oil (>C24-C36)	J	Blank Contamination
S1-AD-032415	Motor Oil (>C24-C36)	U	Blank Contamination
S1-AU-032415	Motor Oil (>C24-C36)	U	Blank Contamination
S1-BD-032415	Motor Oil (>C24-C36)	U	Blank Contamination
S1-BU-032415	Motor Oil (>C24-C36)	U	Blank Contamination
S2-AD-032415	Motor Oil (>C24-C36)	U	Blank Contamination
S2-AU-032415	Motor Oil (>C24-C36)	U	Blank Contamination
S2-BD-032415	Motor Oil (>C24-C36)	U	Blank Contamination
S2-BU-032415	Motor Oil (>C24-C36)	J	Blank Contamination
S3-AD-032415	Motor Oil (>C24-C36)	U	Blank Contamination

5.0 Abbreviations and Definitions

DV Qualifier	Definition
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample reporting limit or the amount of contaminant detected in the sample.
J	The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
UJ	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

DV Qualifier	Definition
R	The sample result is rejected. The presence or absence of the analyte cannot be verified and data are not usable.
R1	The sample result has been replaced by a more reliable or more conservative result.
R2	The sample result has been replaced by a result from a different analysis method.

Abbreviation	Definition
DV	Data Validation
LCS	Laboratory control sample
LCSD	Laboratory control sample duplicate
MS	Matrix spike
MSD	Matrix spike duplicate
RL	Reporting limit
RPD	Relative percent difference
RSD	Relative standard deviation

6.0 References

USEPA Contract Laboratory Program National Functional Guidelines For Superfund Organic Methods Data Review, Office of Superfund Remediation and Technology Innovation, U.S. Environmental Protection Agency, June 2008, USEPA-540-R-008-01.

USEPA Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use, Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency, January 2009, EPA 540-R-08-005.

Sayler Data Solutions, Inc.
14257 93rd Court NE Kirkland, Washington 98034 (425) 820-7504 cari@saylerdata.com

DATA VALIDATION REPORT

Skykomish Groundwater Monitoring June 2015 Data

Prepared for:
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, Washington 98027

August 17, 2015

1.0 Introduction

Data Validation was performed on the following water samples:

Sample ID	Sample Date/Time	LabID	Analyses
1B-W-23-0617	06/17/2015 13:00	580-50965-3	NWTPH-Dx
1B-W-3-061715	06/17/2015 16:11	580-50965-21	NWTPH-Dx
1C-W-1-061715	06/17/2015 14:25	580-50965-22	NWTPH-Dx
1C-W-7-061715	06/17/2015 10:02	580-50965-25	NWTPH-Dx
1C-W-80-061715	06/17/2015 08:50	580-50965-24	NWTPH-Dx
1C-W-8-061715	06/17/2015 11:44	580-50965-23	NWTPH-Dx
2A-W-10-061815	06/18/2015 09:50	580-50965-27	NWTPH-Dx
2A-W-40-061715	06/17/2015 16:05	580-50965-10	NWTPH-Dx
2A-W-41-061715	06/17/2015 14:45	580-50965-8	NWTPH-Dx
2A-W-42-061715	06/17/2015 11:40	580-50965-12	NWTPH-Dx
2A-W-9-061815	06/18/2015 09:45	580-50965-2	NWTPH-Dx
2B-W-4-061815	06/18/2015 09:41	580-50965-19	NWTPH-Dx
5-W-14-061815	06/18/2015 11:01	580-50965-18	NWTPH-Dx
5-W-15-061815	06/18/2015 13:50	580-50965-26	NWTPH-Dx
5-W-160-061815	06/18/2015 10:15	580-50965-17	NWTPH-Dx
5-W-16-061815	06/18/2015 12:18	580-50965-16	NWTPH-Dx
5-W-17-061815	06/18/2015 13:25	580-50965-29	NWTPH-Dx
5-W-18-061815	06/18/2015 14:09	580-50965-15	NWTPH-Dx
5-W-19-061815	06/18/2015 15:00	580-50965-14	NWTPH-Dx
5-W-43-061715	06/17/2015 17:25	580-50965-9	NWTPH-Dx
EW-1-061715	06/17/2015 17:50	580-50965-20	NWTPH-Dx
EW-2A-061715	06/17/2015 10:41	580-50965-4	NWTPH-Dx
GW-1-061715	06/17/2015 17:28	580-50965-5	NWTPH-Dx
GW-20-061715	06/17/2015 16:15	580-50965-7	NWTPH-Dx
GW-2-061715	06/17/2015 16:10	580-50965-6	NWTPH-Dx
GW-3-061715	06/17/2015 14:40	580-50965-11	NWTPH-Dx
GW-4-061715	06/17/2015 09:55	580-50965-13	NWTPH-Dx
MW-3-061815	06/18/2015 11:25	580-50965-28	NWTPH-Dx
MW-4-061815	06/18/2015 11:00	580-50965-1	NWTPH-Dx

Samples were analyzed by Test America, Tacoma, Washington.

A stage 2A summary validation was performed on the analytical results including both the hardcopy (portable document format) and electronic data deliverable, earning EPA OSWER validation label code S2AVEM. Validation was performed by Cari Sayler.

Data qualifiers are assigned based only on the criteria reviewed and do not include calibration or instrument performance issues unless noted in the laboratory narrative.

Data qualifiers are summarized in section 4.0 below.

2.0 Precision, Accuracy, Representativeness, Comparability, and Completeness

Sample analysis frequencies: Quarterly sampling includes 25 water sample locations, and semi-annual sampling includes an additional 32 water sample locations. This round of sampling includes quarterly locations only.

All required samples were collected and the required analysis was completed by the laboratory for each collected sample.

Analysis methods: Samples were analyzed by method NWTPH-Dx and prepared by method SW3510C. These methods are approved EPA methods and therefore meet comparability requirements.

Precision, accuracy and completeness: Precision measurements were within laboratory control limits. Samples were estimated due to low surrogate recoveries or exceeded hold times. However, no data were rejected.

A data completeness of 100 % was calculated based on 25 of 25 intended sample analyses completed. This meets the project goal of 90%.

3.0 Diesel Range Petroleum Hydrocarbon Analysis

Quality control analysis frequencies: The method specifies that a method blank must be analyzed one per analytical batch or one per twenty samples, whichever is more frequent, and a laboratory duplicate must be analyzed one per ten samples. In addition, surrogate compounds must be measured in each field and quality control sample.

Each batch included a method blank, laboratory control sample (LCS), and LCS duplicate (LCSD), as well as appropriate surrogates. Data qualifiers are not required due to a lack of laboratory duplicate results.

Holding times: Unpreserved water samples must be extracted within 7 days of collection. Preserved water samples must be extracted within 14 days of collection. Extracts must be analyzed within 40 days of extraction.

Samples were initially extracted and analyzed within holding time. Samples with low surrogate recoveries were re-extracted and reanalyzed outside of holding times as follows:

Sample ID	Sample to Extraction (Days)	Extraction hold time (Days)
5-W-17-061815RE	20	14

Sample ID	Sample to Extraction (Days)	Extraction hold time (Days)
5-W-16-061815RE	20	14
GW-1-061715RE	21	14
5-W-14-061815RE	20	14
2B-W-4-061815RE	20	14
2A-W-42-061715RE	27	14
5-W-160-061815RE	20	14
1C-W-8-061715RE	27	14
1C-W-80-061715RE	27	14
1C-W-7-061715RE	27	14
1C-W-1-061715RE	27	14
1B-W-3-061715RE	27	14
EW-2A-061715RE	21	14
MW-3-061815RE	20	14
GW-4-061715RE	27	14
GW-3-061715RE	27	14
GW-20-061715RE	21	14
EW-1-061715RE	27	14
5-W-43-061715RE	21	14

Results that are selected as the best to report from samples with exceeded holding times are qualified as estimated.

Laboratory blank results: Criteria for blanks are that analyte concentrations must be below the PQL, or below 5% of the lowest associated sample concentration. The following target compounds were detected in the method blanks:

Blank ID	Analyte	Concentration (mg/L)	RL (mg/L)
MB 580-194784/1-A	#2 Diesel (C10-C24)	0.0157J	0.025

Results in the associated samples with concentrations less than 5 times this levels should be considered not detected at the reported concentration, and are qualified "U". Results with concentrations between 5 and 10 times these levels are qualified as estimated. Results in above 10 times these levels are considered unaffected.

Surrogate recoveries: Laboratory control limits were 50-150%. Low surrogate recoveries were observed in the following samples:

Sample ID	Surrogate	% Recovery	Lab Control Limit
1B-W-3-061715	o-Terphenyl	34	50 - 150
1C-W-1-061715	o-Terphenyl	33	50 - 150
1C-W-7-061715	o-Terphenyl	46	50 - 150
1C-W-80-061715	o-Terphenyl	32	50 - 150
1C-W-8-061715	o-Terphenyl	27	50 - 150
2A-W-42-061715	o-Terphenyl	48	50 - 150

Sample ID	Surrogate	% Recovery	Lab Control Limit
2B-W-4-061815	o-Terphenyl	42	50 - 150
5-W-14-061815	o-Terphenyl	39	50 - 150
5-W-160-061815	o-Terphenyl	40	50 - 150
5-W-16-061815	o-Terphenyl	44	50 - 150
5-W-17-061815	o-Terphenyl	43	50 - 150
5-W-43-061715	o-Terphenyl	42	50 - 150
EW-1-061715	o-Terphenyl	31	50 - 150
EW-2A-061715	o-Terphenyl	32	50 - 150
GW-1-061715	o-Terphenyl	41	50 - 150
GW-20-061715	o-Terphenyl	38	50 - 150
GW-3-061715	o-Terphenyl	45	50 - 150
GW-4-061715	o-Terphenyl	45	50 - 150
MW-3-061815	o-Terphenyl	39	50 - 150

Results that are selected as the best to report from samples with low surrogate recoveries are qualified as estimated.

LCS recoveries: Laboratory control limits ranged from 59-120% to 71-140%. LCS recoveries were within limits.

LCS/LCSD RPDs: The laboratory control limit was <27%. LCS/LCSD RPD values were within limits.

Field duplicate RPDs: For concentrations below five times the reporting limits, concentrations were within +/- two times the reporting limit. For concentrations above five times the reporting limit, RPDs were below 50%.

Multiple reported results: Unless quality control results warrant the rejection of one result, multiple reported results are evaluated according to the following guidelines

(1) If both results are non-detects, the lower reporting limit was selected.
(2) If one result was not detected and the other detected, the detection was selected.
(3) If both results were detections, the following additional criteria were applied:
    (a) If one result was off-scale and one was on-scale, the on-scale result was selected.
    (b) If associated QC results indicated high bias, the lower concentration result was selected.
    (c) If associated QC results indicated no, low, or mixed biases, the higher concentration result was selected.

This approach is conservative, and is considered most protective of the environment. The results not selected as the best result to report are qualified R2, rejected due to the availability of another result.

Reporting limits: The reporting limit goals are 0.1 mg/L for both diesel range hydrocarbons and oil range hydrocarbons. These goals were met.

Laboratory narrative and flags: No other qualifiers were added based on a review of the laboratory narratives.

Except for data replaced by another analysis, diesel and oil range petroleum hydrocarbon data are acceptable for use as qualified.

4.0 Validation Qualifiers

Client ID	Analyte	Qualifier	Reason
1B-W-3-061715	#2 Diesel (C10-C24)	J	Low surrogate recovery
1B-W-3-061715	Motor Oil (>C24-C36)	R1	Another result available
1B-W-3-061715 RE	#2 Diesel (C10-C24)	R1	Another result available
1B-W-3-061715 RE	Motor Oil (>C24-C36)	J	Hold time exceeded
1C-W-1-061715	#2 Diesel (C10-C24)	UJ	Low surrogate recovery
1C-W-1-061715	Motor Oil (>C24-C36)	R1	Another result available
1C-W-1-061715 RE	#2 Diesel (C10-C24)	R1	Another result available
1C-W-1-061715 RE	Motor Oil (>C24-C36)	J	Hold time exceeded
1C-W-7-061715	#2 Diesel (C10-C24)	J	Low surrogate recovery
1C-W-7-061715	Motor Oil (>C24-C36)	R1	Another result available
1C-W-7-061715 RE	#2 Diesel (C10-C24)	R1	Another result available
1C-W-7-061715 RE	Motor Oil (>C24-C36)	J	Hold time exceeded
1C-W-80-061715	#2 Diesel (C10-C24)	J	Low FD recovery
1C-W-80-061715	Motor Oil (>C24-C36)	R1	Another result available
1C-W-80-061715 RE	#2 Diesel (C10-C24)	R1	Another result available
1C-W-80-061715 RE	Motor Oil (>C24-C36)	J	Hold time exceeded
1C-W-8-061715	#2 Diesel (C10-C24)	J	Low surrogate recovery
1C-W-8-061715	Motor Oil (>C24-C36)	R1	Another result available
1C-W-8-061715 RE	#2 Diesel (C10-C24)	R1	Another result available
1C-W-8-061715 RE	Motor Oil (>C24-C36)	J	Hold time exceeded
2A-W-42-061715	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	R1	Another result available
2A-W-42-061715 RE	#2 Diesel (C10-C24)	J	Blank Contamination, hold time exceeded
2A-W-42-061715 RE	Motor Oil (>C24-C36)	J	Hold time exceeded
2B-W-4-061815	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	R1	Another result available
2B-W-4-061815 RE	#2 Diesel (C10-C24)	J	Hold time exceeded
2B-W-4-061815 RE	Motor Oil (>C24-C36)	UJ	Hold time exceeded
5-W-14-061815	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	R1	Another result available
5-W-14-061815 RE	#2 Diesel (C10-C24)	J	Hold time exceeded
5-W-14-061815 RE	Motor Oil (>C24-C36)	UJ	Hold time exceeded
5-W-160-061815	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	R1	Another result available
5-W-160-061815 RE	#2 Diesel (C10-C24)	J	Hold time exceeded
5-W-160-061815 RE	Motor Oil (>C24-C36)	UJ	Hold time exceeded
5-W-16-061815	#2 Diesel (C10-C24)	R1	Another result available
5-W-16-061815	Motor Oil (>C24-C36)	J	Low surrogate recovery
5-W-16-061815 RE	#2 Diesel (C10-C24)	J	Hold time exceeded
5-W-16-061815 RE	Motor Oil (>C24-C36)	R1	Another result available
5-W-17-061815	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	R1	Another result available
5-W-17-061815 RE	#2 Diesel (C10-C24)	J	Hold time exceeded
5-W-17-061815 RE	Motor Oil (>C24-C36)	UJ	Hold time exceeded

Client ID	Analyte	Qualifier	Reason
5-W-43-061715	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	R1	Another result available
5-W-43-061715 RE	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	Hold time exceeded
EW-1-061715	#2 Diesel (C10-C24)	J	Low surrogate recovery
EW-1-061715	Motor Oil (>C24-C36)	R1	Another result available
EW-1-061715 RE	#2 Diesel (C10-C24)	R1	Another result available
EW-1-061715 RE	Motor Oil (>C24-C36)	J	Hold time exceeded
EW-2A-061715	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	R1	Another result available
EW-2A-061715 RE	#2 Diesel (C10-C24)	J	Hold time exceeded
EW-2A-061715 RE	Motor Oil (>C24-C36)	UJ	Hold time exceeded
GW-1-061715	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	R1	Another result available
GW-1-061715 RE	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	Hold time exceeded
GW-20-061715	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	R1	Another result available
GW-20-061715 RE	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	Hold time exceeded
GW-3-061715	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	R1	Another result available
GW-3-061715 RE	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	Hold time exceeded
GW-4-061715	#2 Diesel (C10-C24)	J	Low surrogate recovery
GW-4-061715	Motor Oil (>C24-C36)	R1	Another result available
GW-4-061715 RE	#2 Diesel (C10-C24)	R1	Another result available
GW-4-061715 RE	Motor Oil (>C24-C36)	J	Hold time exceeded
MW-3-061815	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	R1	Another result available
MW-3-061815 RE	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	Hold time exceeded

5.0 Abbreviations and Definitions

DV Qualifier	Definition
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample reporting limit or the amount of contaminant detected in the sample.
J	The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
UJ	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
R	The sample result is rejected. The presence or absence of the analyte cannot be verified and data are not usable.
R1	The sample result has been replaced by a more reliable or more conservative result.

DV Qualifier	Definition
R2	The sample result has been replaced by a result from a different analysis method.

Abbreviation	Definition
DV	Data Validation
LCS	Laboratory control sample
LCSD	Laboratory control sample duplicate
MS	Matrix spike
MSD	Matrix spike duplicate
RL	Reporting limit
RPD	Relative percent difference
RSD	Relative standard deviation

6.0 References

USEPA Contract Laboratory Program National Functional Guidelines For Superfund Organic Methods Data Review, Office of Superfund Remediation and Technology Innovation, U.S. Environmental Protection Agency, June 2008, USEPA-540-R-008-01.

USEPA Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use, Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency, January 2009, EPA 540-R-08-005.

Sayler Data Solutions, Inc.
14257 93rd Court NE Kirkland, Washington 98034 (425) 820-7504 cari@saylerdata.com

DATA VALIDATION REPORT

Skykomish Groundwater Monitoring September 2015 Data

Prepared for:
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, Washington 98027

December 18, 2015

1.0 Introduction

Data Validation was performed on the following water samples:

Sample ID	Sample Date/Time	LabID	Analyses
1A-W-4-092415	09/24/2015 14:52	580-53745-54	NWTPH-Dx
1B-W-2-092415	09/24/2015 10:46	580-53745-55	NWTPH-Dx
1B-W-23-092415	09/24/2015 13:44	580-53745-5	NWTPH-Dx
1B-W-3-092415	09/24/2015 10:42	580-53745-56	NWTPH-Dx
1C-W-1-092315	09/23/2015 14:55	580-53745-1	NWTPH-Dx
1C-W-3-092315	09/23/2015 12:06	580-53745-57	NWTPH-Dx
1C-W-4-092315	09/23/2015 10:42	580-53745-58	NWTPH-Dx
1C-W-7-092315	09/23/2015 14:46	580-53745-2	NWTPH-Dx
1C-W-80-092315	09/23/2015 10:08	580-53745-4	NWTPH-Dx
1C-W-8-092315	09/23/2015 10:05	580-53745-3	NWTPH-Dx
2A-W-10-092315	09/23/2015 16:20	580-53745-9	NWTPH-Dx
2A-W-40-092415	09/24/2015 16:09	580-53745-6	NWTPH-Dx
2A-W-41-092415	09/24/2015 15:29	580-53745-7	NWTPH-Dx
2A-W-42-092315	09/23/2015 16:04	580-53745-8	NWTPH-Dx
2A-W-90-092415	09/24/2015 10:20	580-53745-11	NWTPH-Dx
2A-W-9-092415	09/24/2015 10:15	580-53745-10	NWTPH-Dx
2B-W-4-09242015	09/24/2015 08:58	580-53745-12	NWTPH-Dx
5-W-14-092315	09/23/2015 13:00	580-53745-44	NWTPH-Dx
5-W-15-092315	09/23/2015 11:45	580-53745-45	NWTPH-Dx
5-W-160-092215	09/22/2015 17:20	580-53745-47	NWTPH-Dx
5-W-16-092215	09/22/2015 17:18	580-53745-46	NWTPH-Dx
5-W-17-092315	09/23/2015 10:30	580-53745-48	NWTPH-Dx
5-W-18-092215	09/22/2015 16:00	580-53745-49	NWTPH-Dx
5-W-19-092215	09/22/2015 14:25	580-53745-50	NWTPH-Dx
5-W-43-092415	09/24/2015 17:25	580-53745-61	NWTPH-Dx
5-W-54-092315	09/23/2015 17:45	580-53745-51	NWTPH-Dx
5-W-55-092315	09/23/2015 17:44	580-53745-52	NWTPH-Dx
5-W-56-092315	09/23/2015 18:08	580-53745-53	NWTPH-Dx
EW-1-092415	09/24/2015 17:00	580-53745-15	NWTPH-Dx
EW-2A-092315	09/23/2015 11:24	580-53745-16	NWTPH-Dx

Sample ID	Sample Date/Time	LabID	Analyses
GW-10-092415	09/24/2015 16:15	580-53745-18	NWTPH-Dx
GW-1-092415	09/24/2015 16:12	580-53745-17	NWTPH-Dx
GW-20-092415	09/24/2015 14:50	580-53745-20	NWTPH-Dx
GW-2-092415	09/24/2015 14:45	580-53745-19	NWTPH-Dx
GW-30-092415	09/24/2015 12:20	580-53745-22	NWTPH-Dx
GW-3-092415	09/24/2015 12:19	580-53745-21	NWTPH-Dx
GW-4-092315	09/23/2015 12:39	580-53745-23	NWTPH-Dx
MW-16-092415	09/24/2015 08:46	580-53745-59	NWTPH-Dx
MW-3-09242015	09/24/2015 09:09	580-53745-13	NWTPH-Dx
MW-38R-092415	09/24/2015 12:05	580-53745-60	NWTPH-Dx
MW-4-09232015	09/23/2015 15:15	580-53745-14	NWTPH-Dx
S1-AD-092215	09/22/2015 13:52	580-53745-24	NWTPH-Dx
S1-AU-092215	09/22/2015 14:23	580-53745-25	NWTPH-Dx
S1-BD-092215	09/22/2015 13:45	580-53745-26	NWTPH-Dx
S1-BU-092215	09/22/2015 14:10	580-53745-27	NWTPH-Dx
S2-AD-092215	09/22/2015 15:12	580-53745-28	NWTPH-Dx
S2-AU-092215	09/22/2015 15:40	580-53745-29	NWTPH-Dx
S2-BD-092215	09/22/2015 14:50	580-53745-30	NWTPH-Dx
S2-BU-092215	09/22/2015 15:15	580-53745-31	NWTPH-Dx
S3-AD-092215	09/22/2015 16:17	580-53745-32	NWTPH-Dx
S3-AU-092215	09/22/2015 16:39	580-53745-33	NWTPH-Dx
S3-BD-092215	09/22/2015 16:48	580-53745-34	NWTPH-Dx
S3-BU-092215	09/22/2015 16:21	580-53745-35	NWTPH-Dx
S3-CD-092215	09/22/2015 17:05	580-53745-36	NWTPH-Dx
S3-CU-092215	09/22/2015 17:24	580-53745-37	NWTPH-Dx
S4-AD-092215	09/22/2015 18:33	580-53745-38	NWTPH-Dx
S4-AU-092215	09/22/2015 18:08	580-53745-39	NWTPH-Dx
S4-BD-092215	09/22/2015 18:10	580-53745-40	NWTPH-Dx
S4-BU-092215	09/22/2015 16:33	580-53745-41	NWTPH-Dx
S4-CD-092215	09/22/2015 18:14	580-53745-42	NWTPH-Dx
S4-CU-092215	09/22/2015 18:41	580-53745-43	NWTPH-Dx

Samples were analyzed by Test America, Tacoma, Washington.

A stage 2A summary validation was performed on the analytical results including both the hardcopy (portable document format) and electronic data deliverable, earning EPA OSWER validation label code S2AVEM. Validation was performed by Cari Sayler.

Data qualifiers are assigned based only on the criteria reviewed and do not include calibration or instrument performance issues unless noted in the laboratory narrative.

Data qualifiers are summarized in section 4.0 below.

2.0 Precision, Accuracy, Representativeness, Comparability, and Completeness

Sample analysis frequencies: Quarterly sampling includes 25 water sample locations, and semi-annual sampling includes an additional 32 water sample locations. This round of sampling includes both quarterly and semi-annual locations.

No sample was required at location 5-W-51 due to the presence of free product. No sample was collected at 5-W-50. All other required samples were collected and the required analysis was completed by the laboratory for each collected sample.

Analysis methods: Samples were analyzed by method NWTPH-Dx and prepared by method SW3510C. These methods are approved EPA methods and therefore meet comparability requirements.

Precision, accuracy and completeness: Samples were estimated due to high sample receipt temperatures, low surrogate recoveries, blank contamination and/or high LCS/LCSD RPDs. However, no data were rejected.

A data completeness of 98% was calculated based on 55 of 56 intended sample analyses completed. This meets the project goal of 90%.

3.0 Diesel Range Petroleum Hydrocarbon Analysis

Quality control analysis frequencies: The method specifies that a method blank must be analyzed one per analytical batch or one per twenty samples, whichever is more frequent, and a laboratory duplicate must be analyzed one per ten samples. In addition, surrogate compounds must be measured in each field and quality control sample.

Each batch included a method blank, laboratory control sample (LCS), and LCS duplicate (LCSD), as well as appropriate surrogates. Data qualifiers are not required due to a lack of laboratory duplicate results.

Holding times: Unpreserved water samples must be extracted within 7 days of collection. Preserved water samples must be extracted within 14 days of collection. Extracts must be analyzed within 40 days of extraction. Samples were extracted and analyzed within holding time. However, the sample receipt temperature of samples in four coolers was above the 2-6 °C recommended range. However, sample IDs for samples in these coolers were not recorded, and results for all samples are qualified as estimated.

Laboratory blank results: Criteria for blanks are that analyte concentrations must be below the PQL, or below 5% of the lowest associated sample concentration. The following target compounds were detected in the method blanks:

Blank ID	Analyte	Concentration (mg/L)	RL (mg/L)
MB 580-202484/1-A	Motor Oil (>C24-C36)	0.0131J	0.050

Results in the associated samples with concentrations less than 5 times this levels should be considered not detected at the reported concentration, and are qualified “U”. Results with concentrations between 5 and 10 times these levels are qualified as estimated. Results in above 10 times these levels are considered unaffected.

Surrogate recoveries: Laboratory control limits were 50-150%. Low surrogate recoveries were observed in the following samples:

Sample ID	Surrogate	% Recovery	Lab Control Limit
S3-AD-092215	o-Terphenyl	25	50 - 150
S3-AU-092215	o-Terphenyl	25	50 - 150
S3-CD-092215	o-Terphenyl	38	50 - 150

Results from samples with low surrogate recoveries are qualified as estimated.

LCS recoveries: Laboratory control limits ranged from 59-120% to 71-140%. LCS recoveries were within limits.

LCS/LCSD RPDs: The laboratory control limit was <27%. LCS/LCSD RPD values were within limits with the following exception:

QC ID	Analyte	RPD	Lab Control Limit
LCSD 580-202415/3-A	Motor Oil (>C24-C36)	35	27

Positive results for motor oil associated with this LCS/LCSD are qualified as estimated.

Field duplicate RPDs: For concentrations below five times the reporting limits, concentrations were within +/- two times the reporting limit. For concentrations above five times the reporting limit, RPDs were below 50%.

Multiple reported results: No multiple results were reported in this data package.

Reporting limits: The reporting limit goals are 0.1 mg/L for both diesel range hydrocarbons and oil range hydrocarbons. These goals were met.

Laboratory narrative and flags: No other qualifiers were added based on a review of the laboratory narratives.

Diesel and oil range petroleum hydrocarbon data are acceptable for use as qualified.

4.0 Validation Qualifiers

Client ID	Analyte	Qualifier	Reason
1A-W-4-092415	Motor Oil (>C24-C36)	UJ	High sample receipt temperature
1A-W-4-092415	#2 Diesel (C10-C24)	J	High sample receipt temperature
1B-W-2-092415	Motor Oil (>C24-C36)	J	High LCS/LCSD RPD
1B-W-2-092415	#2 Diesel (C10-C24)	J	High sample receipt temperature
1B-W-23-092415	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
1B-W-3-092415	Motor Oil (>C24-C36)	J	High LCS/LCSD RPD
1B-W-3-092415	#2 Diesel (C10-C24)	J	High sample receipt temperature
1C-W-1-092315	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
1C-W-3-092315	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
1C-W-4-092315	Motor Oil (>C24-C36)	J	High LCS/LCSD RPD
1C-W-4-092315	#2 Diesel (C10-C24)	J	High sample receipt temperature
1C-W-7-092315	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
1C-W-80-092315	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
1C-W-8-092315	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
2A-W-10-092315	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
2A-W-40-092415	#2 Diesel (C10-C24)	J	High sample receipt temperature
2A-W-40-092415	Motor Oil (>C24-C36)	UJ	High sample receipt temperature

Client ID	Analyte	Qualifier	Reason
2A-W-41-092415	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
2A-W-42-092315	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
2A-W-90-092415	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
2A-W-9-092415	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
2B-W-4-09242015	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
5-W-14-092315	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
5-W-15-092315	#2 Diesel (C10-C24)	J	High sample receipt temperature
5-W-15-092315	Motor Oil (>C24-C36)	UJ	High sample receipt temperature
5-W-160-092215	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
5-W-16-092215	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
5-W-17-092315	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
5-W-18-092215	Motor Oil (>C24-C36)	J	High LCS/LCSD RPD
5-W-18-092215	#2 Diesel (C10-C24)	J	High sample receipt temperature
5-W-19-092215	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
5-W-43-092415	#2 Diesel (C10-C24)	J	High sample receipt temperature
5-W-43-092415	Motor Oil (>C24-C36)	U	Blank Contamination
5-W-54-092315	Motor Oil (>C24-C36)	J	High LCS/LCSD RPD
5-W-54-092315	#2 Diesel (C10-C24)	J	High sample receipt temperature
5-W-55-092315	Motor Oil (>C24-C36)	J	High LCS/LCSD RPD
5-W-55-092315	#2 Diesel (C10-C24)	J	High sample receipt temperature
5-W-56-092315	Motor Oil (>C24-C36)	J	High LCS/LCSD RPD
5-W-56-092315	#2 Diesel (C10-C24)	J	High sample receipt temperature
EW-1-092415	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
EW-2A-092315	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
GW-10-092415	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
GW-1-092415	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
GW-20-092415	#2 Diesel (C10-C24)	J	High sample receipt temperature
GW-20-092415	Motor Oil (>C24-C36)	UJ	High sample receipt temperature
GW-2-092415	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
GW-30-092415	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
GW-3-092415	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
GW-4-092315	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
MW-16-092415	Motor Oil (>C24-C36)	UJ	High sample receipt temperature
MW-16-092415	#2 Diesel (C10-C24)	J	High sample receipt temperature

Client ID	Analyte	Qualifier	Reason
MW-3-09242015	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
MW-38R-092415	Motor Oil (>C24-C36)	J	High LCS/LCSD RPD
MW-38R-092415	#2 Diesel (C10-C24)	J	High sample receipt temperature
MW-4-09232015	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
S1-AD-092215	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
S1-AU-092215	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
S1-BD-092215	#2 Diesel (C10-C24)	J	High sample receipt temperature
S1-BD-092215	Motor Oil (>C24-C36)	UJ	High sample receipt temperature
S1-BU-092215	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
S2-AD-092215	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
S2-AU-092215	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
S2-BD-092215	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
S2-BU-092215	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
S3-AD-092215	Motor Oil (>C24-C36)	J	Low surrogate recovery
S3-AD-092215	#2 Diesel (C10-C24)	UJ	Low surrogate recovery, High sample receipt temperature
S3-AU-092215	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	Low surrogate recovery
S3-BD-092215	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
S3-BU-092215	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
S3-CD-092215	Motor Oil (>C24-C36)	UJ	Low surrogate recovery, High sample receipt temperature
S3-CD-092215	#2 Diesel (C10-C24)	J	Low surrogate recovery
S3-CU-092215	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
S4-AD-092215	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
S4-AU-092215	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
S4-BD-092215	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
S4-BU-092215	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
S4-CD-092215	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	J	High sample receipt temperature
S4-CU-092215	#2 Diesel (C10-C24), Motor Oil (>C24-C36)	UJ	High sample receipt temperature

5.0 Abbreviations and Definitions

DV Qualifier	Definition
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample reporting limit or the amount of contaminant detected in the sample.
J	The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
UJ	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
R	The sample result is rejected. The presence or absence of the analyte cannot be verified and data are not usable.
R1	The sample result has been replaced by a more reliable or more conservative result.
R2	The sample result has been replaced by a result from a different analysis method.

Abbreviation	Definition
DV	Data Validation
LCS	Laboratory control sample
LCSD	Laboratory control sample duplicate
MS	Matrix spike
MSD	Matrix spike duplicate
RL	Reporting limit
RPD	Relative percent difference
RSD	Relative standard deviation

6.0 References

USEPA Contract Laboratory Program National Functional Guidelines For Superfund Organic Methods Data Review, Office of Superfund Remediation and Technology Innovation, U.S. Environmental Protection Agency, June 2008, USEPA-540-R-008-01.

USEPA Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use, Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency, January 2009, EPA 540-R-08-005.

Sayler Data Solutions, Inc.
14257 93rd Court NE Kirkland, Washington 98034 (425) 820-7504 cari@saylerdata.com

DATA VALIDATION REPORT

Skykomish Groundwater Monitoring December 2015 Data

Prepared for:
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, Washington 98027

January 18, 2016

1.0 Introduction

Data Validation was performed on the following water samples:

Sample ID	Sample Date/Time	Laboratory ID	Analyses
1B-W-23-120915	12/09/2015 14:50	580-55846-4	NWTPH-Dx
1B-W-30-121015	12/10/2015 09:15	580-55846-50	NWTPH-Dx
1B-W-3-121015	12/10/2015 09:05	580-55846-49	NWTPH-Dx
1C-W-1-120915	12/09/2015 13:25	580-55846-1	NWTPH-Dx
1C-W-7-120915	12/09/2015 13:00	580-55846-2	NWTPH-Dx
1C-W-8-120915	12/09/2015 11:50	580-55846-3	NWTPH-Dx
2A-W-10-121015	12/10/2015 09:30	580-55846-8	NWTPH-Dx
2A-W-40-120915	12/09/2015 13:50	580-55846-5	NWTPH-Dx
2A-W-41-121015	12/10/2015 11:15	580-55846-6	NWTPH-Dx
2A-W-42-120915	12/09/2015 11:40	580-55846-7	NWTPH-Dx
2A-W-9-121015	12/10/2015 10:30	580-55846-13	NWTPH-Dx
2B-W-4-121015	12/10/2015 10:55	580-55846-14	NWTPH-Dx
5-W-14-120815	12/08/2015 15:30	580-55846-27	NWTPH-Dx
5-W-15-120915	12/09/2015 16:50	580-55846-28	NWTPH-Dx
5-W-160-120815	12/08/2015 12:05	580-55846-30	NWTPH-Dx
5-W-16-120815	12/08/2015 12:00	580-55846-29	NWTPH-Dx
5-W-17-120815	12/08/2015 14:05	580-55846-46	NWTPH-Dx
5-W-18-120915	12/09/2015 15:08	580-55846-47	NWTPH-Dx
5-W-19-120815	12/08/2015 10:25	580-55846-48	NWTPH-Dx
5-W-43-121015	12/10/2015 11:32	580-55846-51	NWTPH-Dx
EW-1-120915	12/09/2015 16:30	580-55846-36	NWTPH-Dx
EW-2A-120915	12/09/2015 10:15	580-55846-35	NWTPH-Dx
GW-10-120915	12/09/2015 10:28	580-55846-12	NWTPH-Dx
GW-1-120915	12/09/2015 10:25	580-55846-11	NWTPH-Dx
GW-20-120915	12/09/2015 12:25	580-55846-31	NWTPH-Dx
GW-2-120915	12/09/2015 12:20	580-55846-15	NWTPH-Dx
GW-30-120915	12/09/2015 15:00	580-55846-33	NWTPH-Dx
GW-3-120915	12/09/2015 14:45	580-55846-32	NWTPH-Dx
GW-4-120915	12/09/2015 10:10	580-55846-34	NWTPH-Dx
MW-3-121015	12/10/2015 09:30	580-55846-9	NWTPH-Dx

Sample ID	Sample Date/Time	Laboratory ID	Analyses
MW-4-121015	12/10/2015 09:15	580-55846-10	NWTPH-Dx
S1-AD-120815	12/08/2015 16:41	580-55846-37	NWTPH-Dx
S1-AU-120815	12/08/2015 16:40	580-55846-38	NWTPH-Dx
S1-BD-120815	12/08/2015 16:02	580-55846-39	NWTPH-Dx
S1-BU-120815	12/08/2015 16:30	580-55846-40	NWTPH-Dx
S2-AD-120815	12/08/2015 16:06	580-55846-41	NWTPH-Dx
S2-AU-120815	12/08/2015 16:05	580-55846-42	NWTPH-Dx
S2-BD-120815	12/08/2015 15:33	580-55846-43	NWTPH-Dx
S2-BU-120815	12/08/2015 15:34	580-55846-44	NWTPH-Dx
S3-AD-120815	12/08/2015 14:35	580-55846-45	NWTPH-Dx
S3-AU-120815	12/08/2015 14:36	580-55846-16	NWTPH-Dx
S3-BD-120815	12/08/2015 13:55	580-55846-17	NWTPH-Dx
S3-BU-120815	12/08/2015 14:00	580-55846-18	NWTPH-Dx
S3-CD-120815	12/08/2015 13:25	580-55846-19	NWTPH-Dx
S3-CU-120815	12/08/2015 13:26	580-55846-20	NWTPH-Dx
S4-AD-120815	12/08/2015 11:30	580-55846-21	NWTPH-Dx
S4-AU-120815	12/08/2015 12:00	580-55846-22	NWTPH-Dx
S4-BD-120815	12/08/2015 09:21	580-55846-23	NWTPH-Dx
S4-BU-120815	12/08/2015 10:05	580-55846-24	NWTPH-Dx
S4-CD-120815	12/08/2015 09:20	580-55846-25	NWTPH-Dx
S4-CU-120815	12/08/2015 11:02	580-55846-26	NWTPH-Dx

Samples were analyzed by Test America, Tacoma, Washington.

A stage 2A summary validation was performed on the analytical results including both the hardcopy (portable document format) and electronic data deliverable, earning EPA OSWER validation label code S2AVEM. Validation was performed by Cari Sayler.

Data qualifiers are assigned based only on the criteria reviewed and do not include calibration or instrument performance issues unless noted in the laboratory narrative.

Data qualifiers are summarized in section 4.0 below.

2.0 Precision, Accuracy, Representativeness, Comparability, and Completeness

Sample analysis frequencies: Quarterly sampling includes 25 water sample locations, and semi-annual sampling includes an additional 32 water sample locations. For this round of sampling only quarterly locations were required. All required samples were collected and the required analysis was completed by the laboratory for each collected sample.

However, samples from 21 semi-annual locations were also collected:

Sample ID	Location
1C-W-1-120915	1C-W-1
S1-AD-120815	S1-AD
S1-AU-120815	S1-AU
S1-BD-120815	S1-BD
S1-BU-120815	S1-BU
S2-AD-120815	S2-AD
S2-AU-120815	S2-AU
S2-BD-120815	S2-BD
S2-BU-120815	S2-BU

Sample ID	Location
S3-AD-120815	S3-AD
S3-AU-120815	S3-AU
S3-BD-120815	S3-BD
S3-BU-120815	S3-BU
S3-CD-120815	S3-CD
S3-CU-120815	S3-CU
S4-AD-120815	S4-AD
S4-AU-120815	S4-AU
S4-BD-120815	S4-BD
S4-BU-120815	S4-BU
S4-CD-120815	S4-CD
S4-CU-120815	S4-CU

These additional samples were validated, but are not included in the data completeness calculation below.

Analysis methods: Samples were analyzed by method NWTPH-Dx and prepared by method SW3510C. These methods are approved EPA methods and therefore meet comparability requirements.

Precision, accuracy and completeness: Precision measurements were within laboratory control limits. Some results were estimated or reporting limits elevated due to blank contamination. However, no data were rejected.

A data completeness of 100 % was calculated based on 25 of 25 intended sample analyses completed. This meets the project goal of 90%.

3.0 Diesel Range Petroleum Hydrocarbon Analysis

Quality control analysis frequencies: The method specifies that a method blank must be analyzed one per analytical batch or one per twenty samples, whichever is more frequent, and a laboratory duplicate must be analyzed one per ten samples. In addition, surrogate compounds must be measured in each field and quality control sample.

Each batch included a method blank, laboratory control sample (LCS), and LCS duplicate (LCSD), as well as appropriate surrogates. Data qualifiers are not required due to a lack of laboratory duplicate results.

Holding times: Unpreserved water samples must be extracted within 7 days of collection. Preserved water samples must be extracted within 14 days of collection. Extracts must be analyzed within 40 days of extraction. Samples were extracted and analyzed within holding time.

Laboratory blank results: Criteria for blanks are that analyte concentrations must be below the PQL, or below 5% of the lowest associated sample concentration. The following target compounds were detected in the method blanks:

Blank ID	Analyte	Concentration (mg/L)	RL (mg/L)
MB 580-207883/1-A	Motor Oil (>C24-C36)	0.0116J	0.050

Results in the associated samples with concentrations less than 5 times this levels should be considered not detected at the reported concentration, and are qualified “U”. Results that are both below both 5 times the blank level and below the reporting limit are qualified “UJ”. Results with concentrations between 5 and 10 times these levels are qualified as estimated. Results in above 10 times these levels are considered unaffected.

Surrogate recoveries: Laboratory control limits were 50-150%. Surrogate recoveries were within limits.

LCS recoveries: Laboratory control limits ranged from 59-120% to 71-140%. LCS recoveries were within limits.

LCS/LCSD RPDs: The laboratory control limit was <27%. LCS/LCSD RPD values were within limits.

Field duplicate RPDs: For concentrations below five times the reporting limits, concentrations were within +/- two times the reporting limit. For concentrations above five times the reporting limit, RPDs were below 50%.

Multiple reported results: No dilution or reanalysis result were included in this report, and no evaluation of multiple reported results was needed.

Reporting limits: The reporting limit goals are 0.1 mg/L for both diesel range hydrocarbons and oil range hydrocarbons. These goals were met.

Laboratory narrative and flags: No other qualifiers were added based on a review of the laboratory narratives.

Diesel and oil range petroleum hydrocarbon data are acceptable for use as qualified.

4.0 Validation Qualifiers

Client ID	Analyte	Qualifier	Reason
1B-W-23-120915	Motor Oil (>C24-C36)	UJ	Blank Contamination
1C-W-1-120915	Motor Oil (>C24-C36)	U	Blank Contamination
1C-W-7-120915	Motor Oil (>C24-C36)	U	Blank Contamination
1C-W-8-120915	Motor Oil (>C24-C36)	J	Blank Contamination
2A-W-40-120915	Motor Oil (>C24-C36)	UJ	Blank Contamination
2A-W-42-120915	Motor Oil (>C24-C36)	J	Blank Contamination
2B-W-4-121015	Motor Oil (>C24-C36)	UJ	Blank Contamination
GW-10-120915	Motor Oil (>C24-C36)	UJ	Blank Contamination
GW-1-120915	Motor Oil (>C24-C36)	UJ	Blank Contamination
GW-2-120915	Motor Oil (>C24-C36)	J	Blank Contamination
MW-3-121015	Motor Oil (>C24-C36)	UJ	Blank Contamination
MW-4-121015	Motor Oil (>C24-C36)	J	Blank Contamination

5.0 Abbreviations and Definitions

DV Qualifier	Definition
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample reporting limit or the amount of contaminant detected in the sample.
J	The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
UJ	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
R	The sample result is rejected. The presence or absence of the analyte cannot be verified and data are not usable.
R1	The sample result has been replaced by a more reliable or more conservative result.
R2	The sample result has been replaced by a result from a different analysis method.

Abbreviation	Definition
DV	Data Validation
LCS	Laboratory control sample
LCSD	Laboratory control sample duplicate
MS	Matrix spike
MSD	Matrix spike duplicate
RL	Reporting limit
RPD	Relative percent difference
RSD	Relative standard deviation

6.0 References

USEPA Contract Laboratory Program National Functional Guidelines For Superfund Organic Methods Data Review, Office of Superfund Remediation and Technology Innovation, U.S. Environmental Protection Agency, June 2008, USEPA-540-R-008-01.

USEPA Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use, Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency, January 2009, EPA 540-R-08-005.

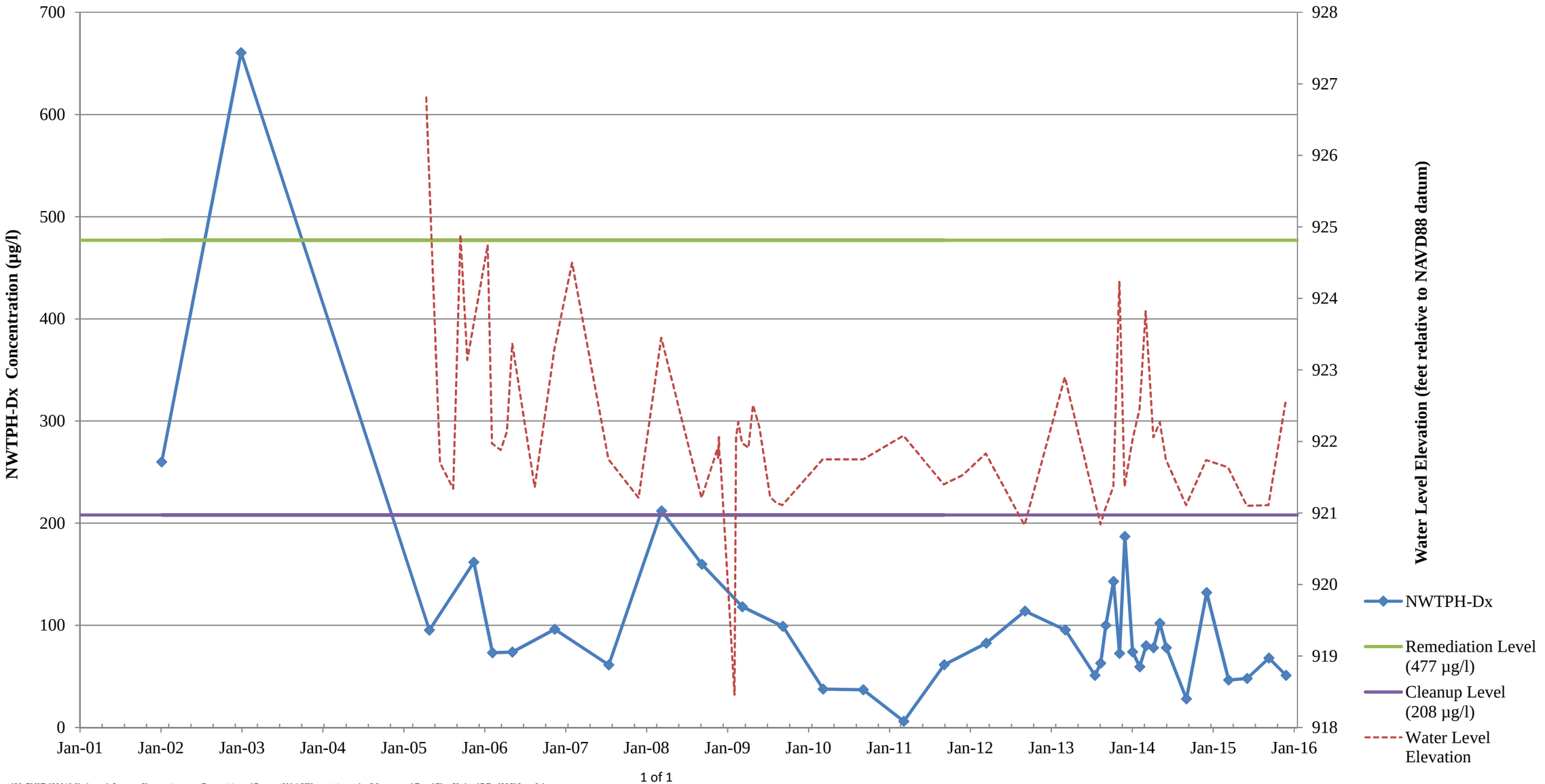
APPENDIX C
NWTPH-DX MONITORING WELL TREND PLOTS

2015 SITE-WIDE
GROUNDWATER MONITORING REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043

Air Sparging System

NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
1B-W-3



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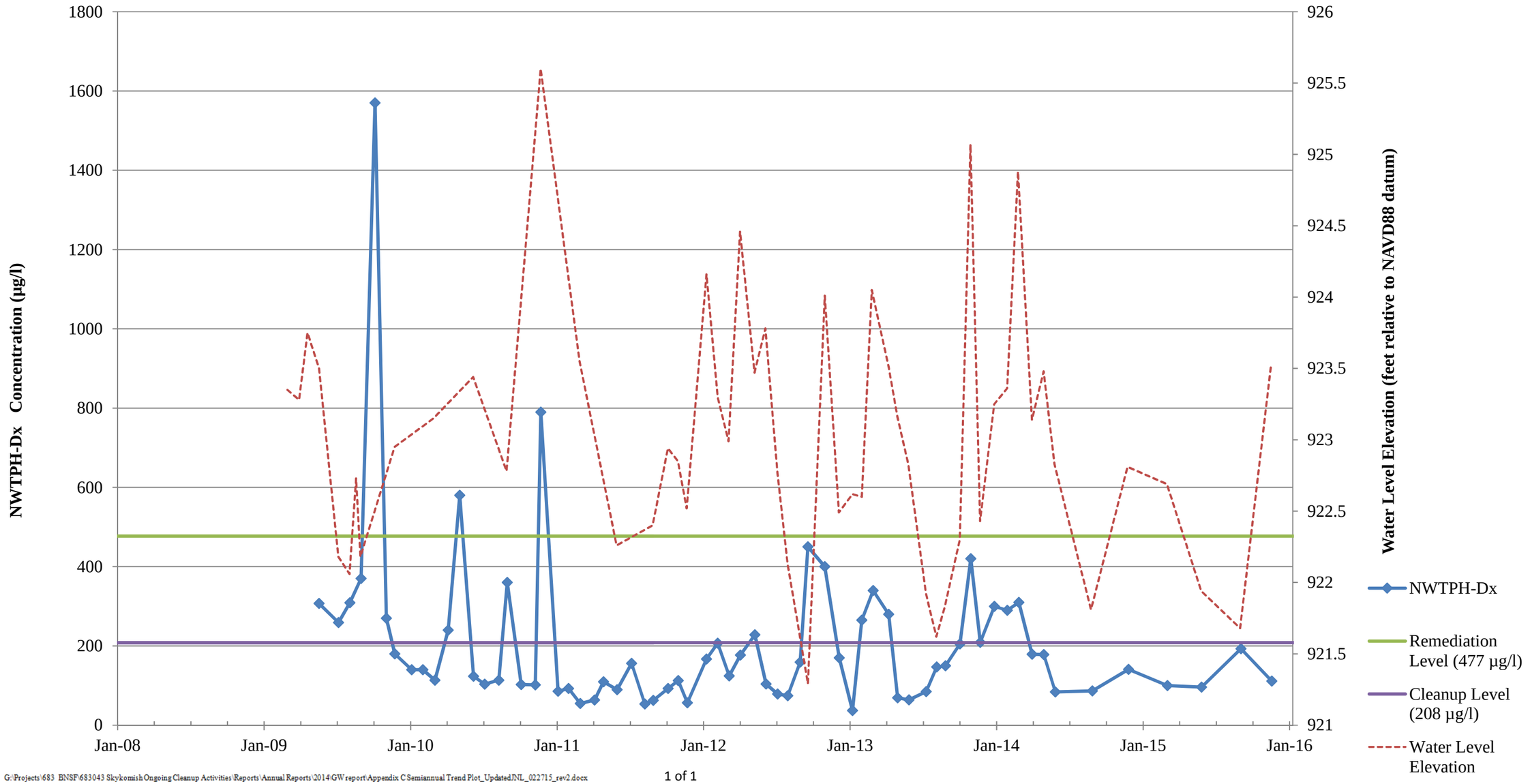
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
1C-W-7



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
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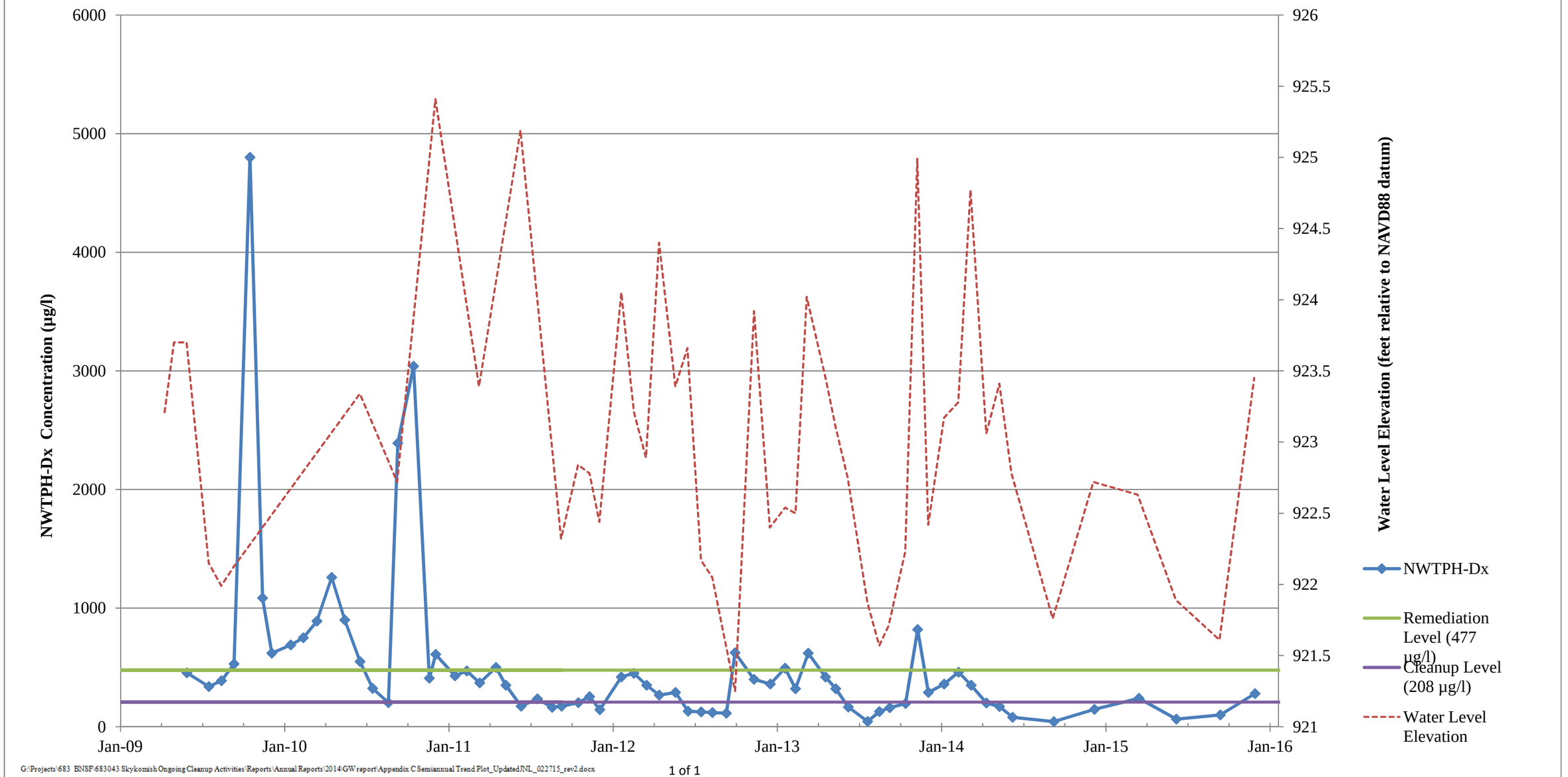
Farallon PN: 683-043
1C-W-8



FMCZ-EW and Surrounding Areas

NWTPH-Dx Trend Plot
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Farallon PN: 683-043
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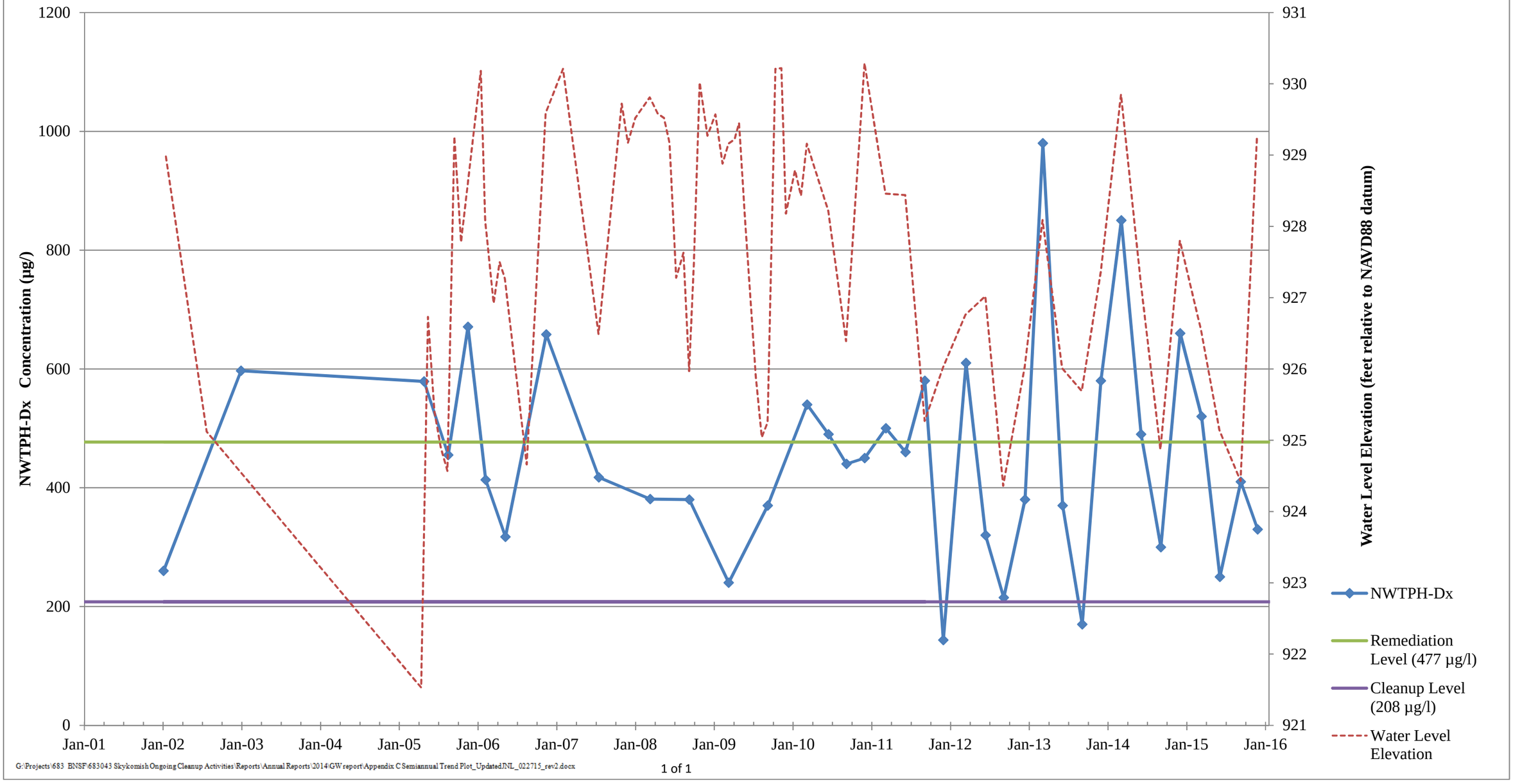

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BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
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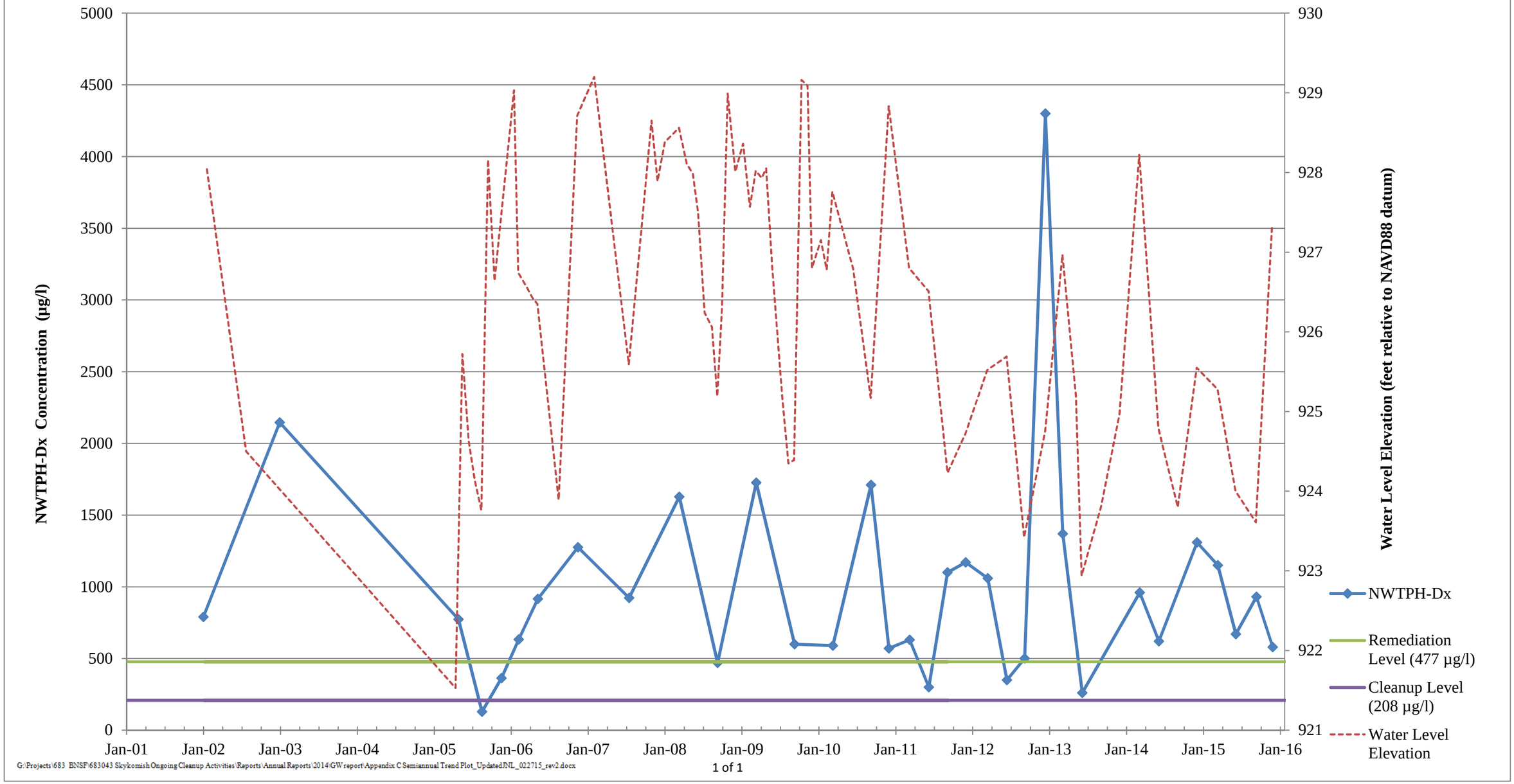

NWTPH-Dx Trend Plot
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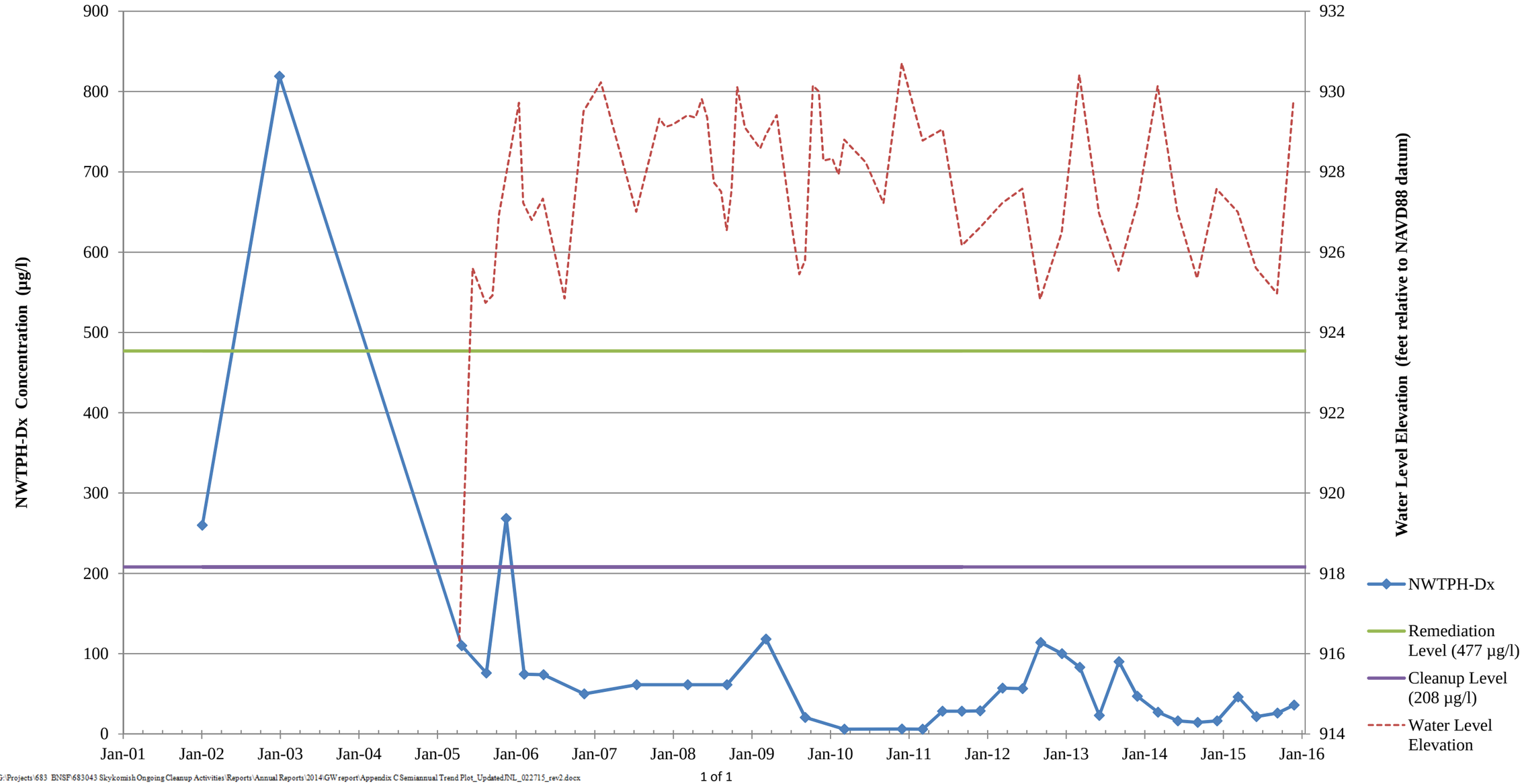
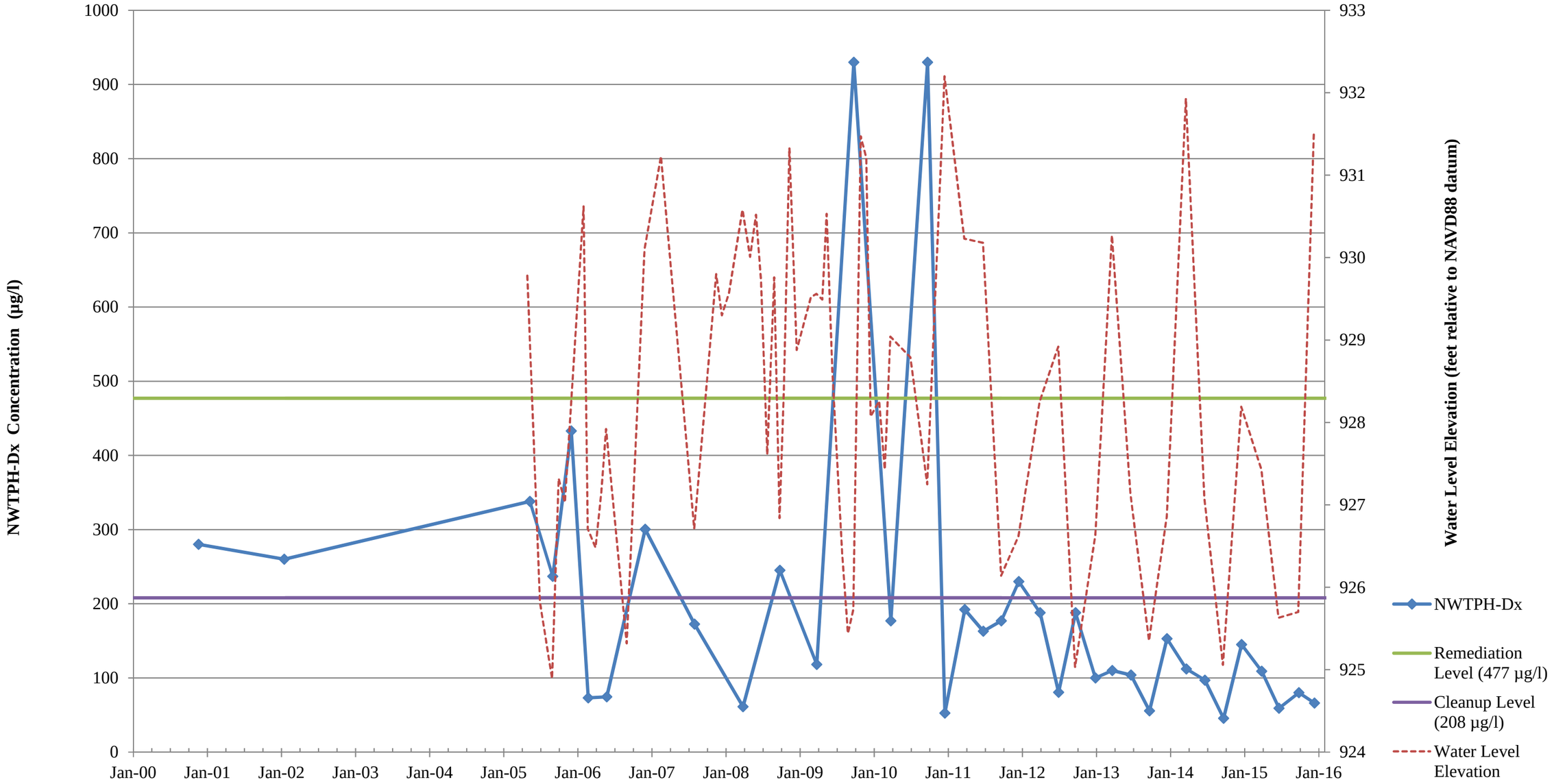
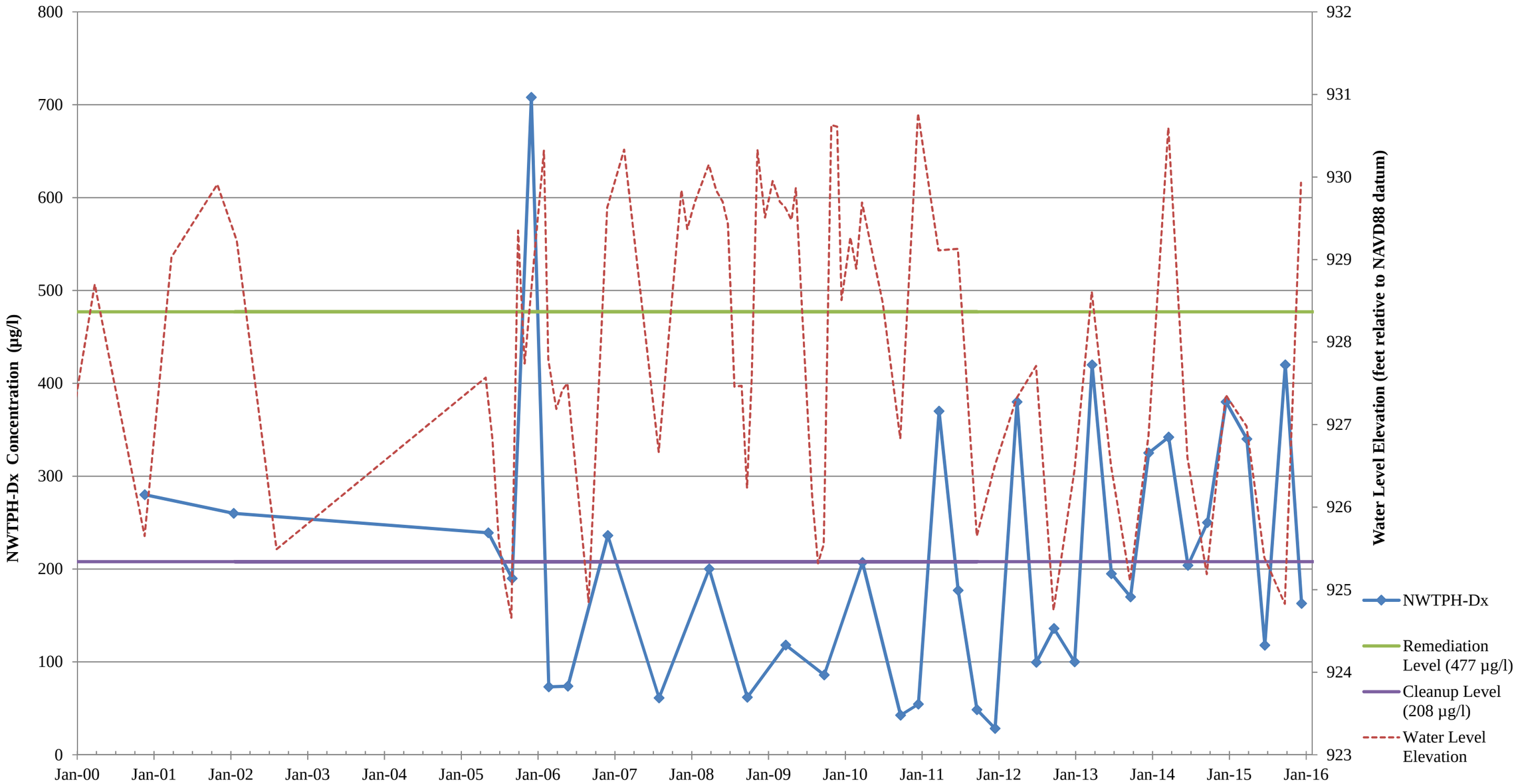
Skykomish, Washington
Farallon PN: 683-043
2B-W-4



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
MW-3



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
MW-4



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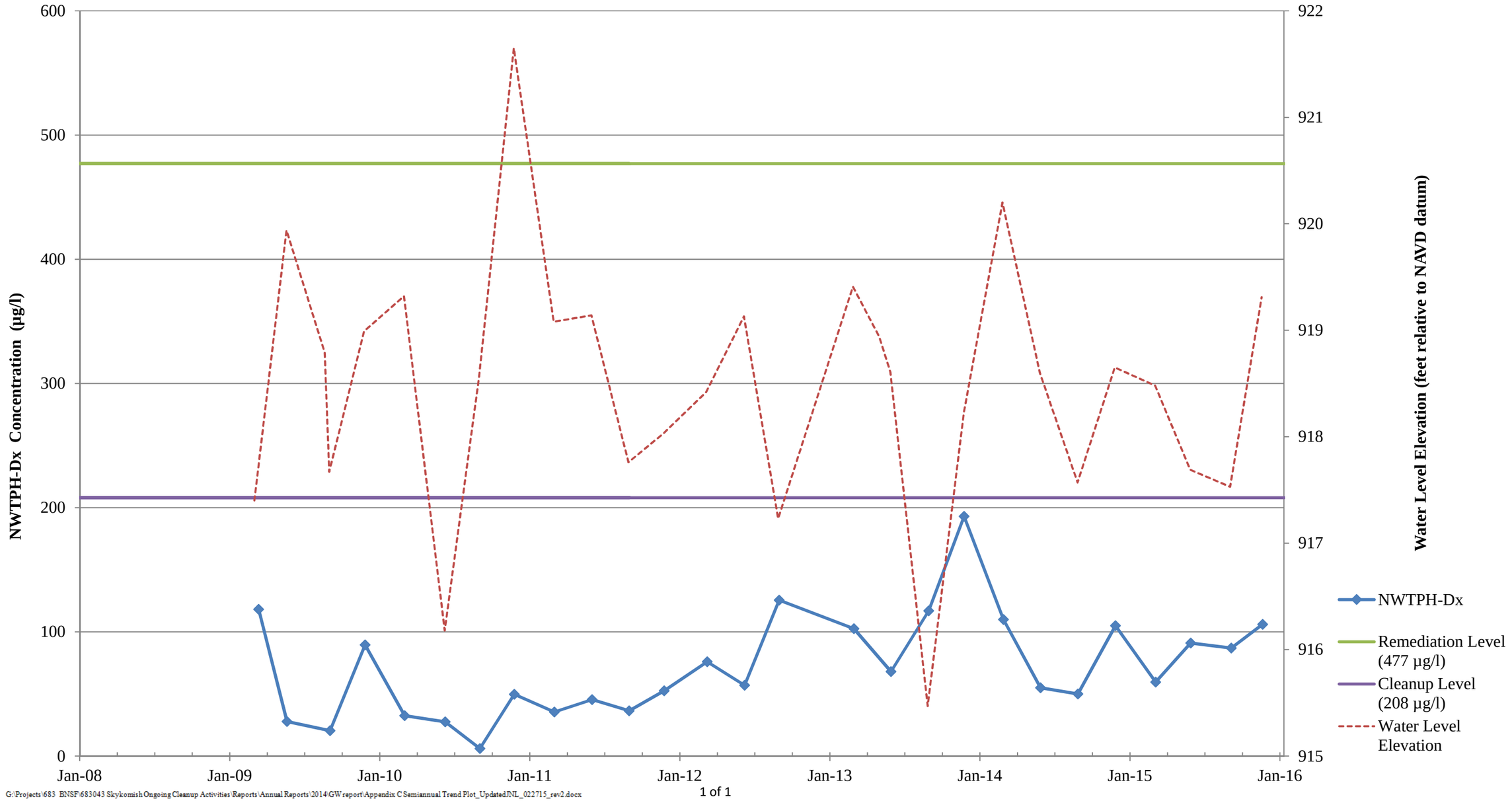
HCC System

NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
EW-1



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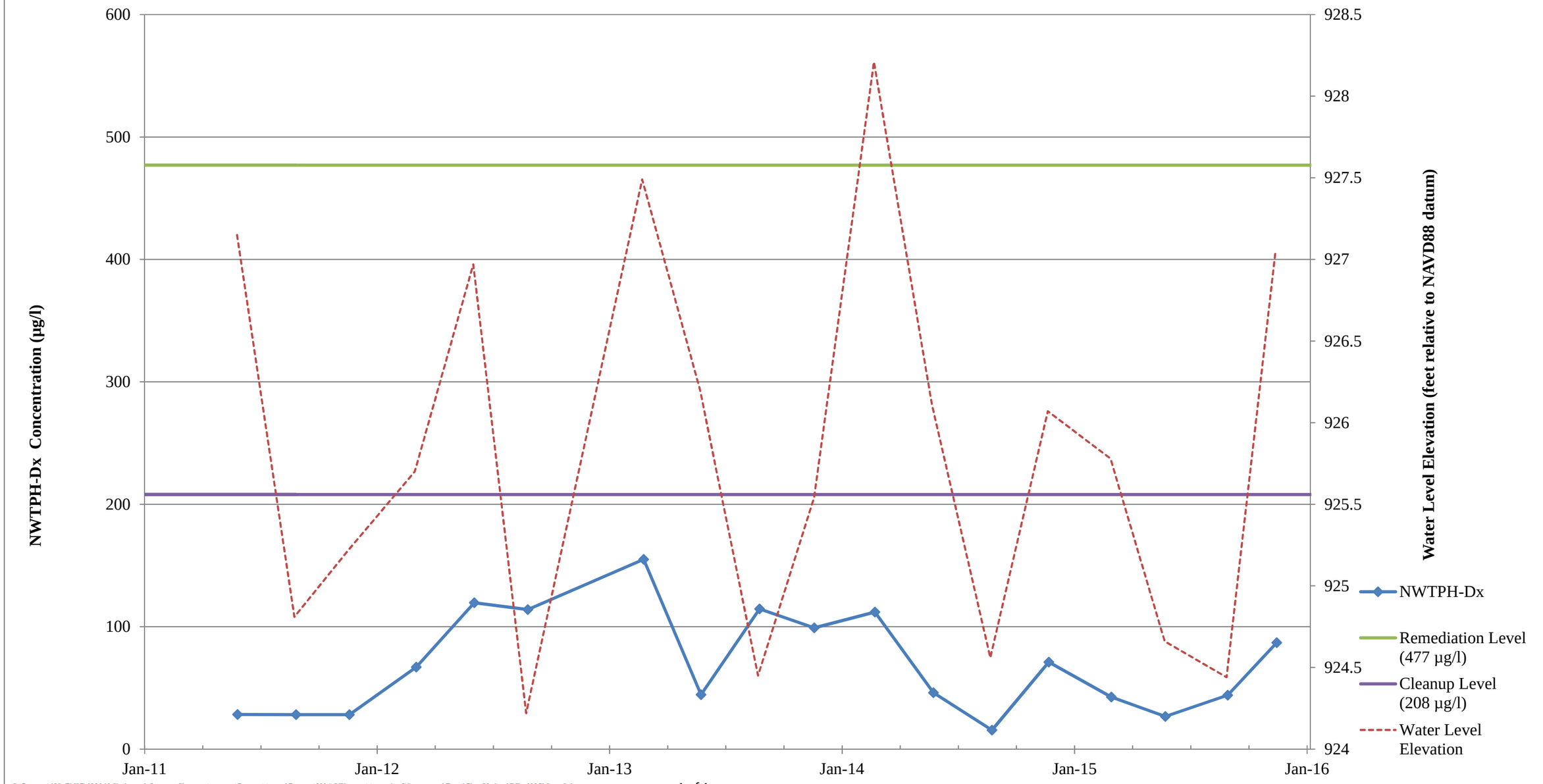

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Skykomish, Washington
Farallon PN: 683-043
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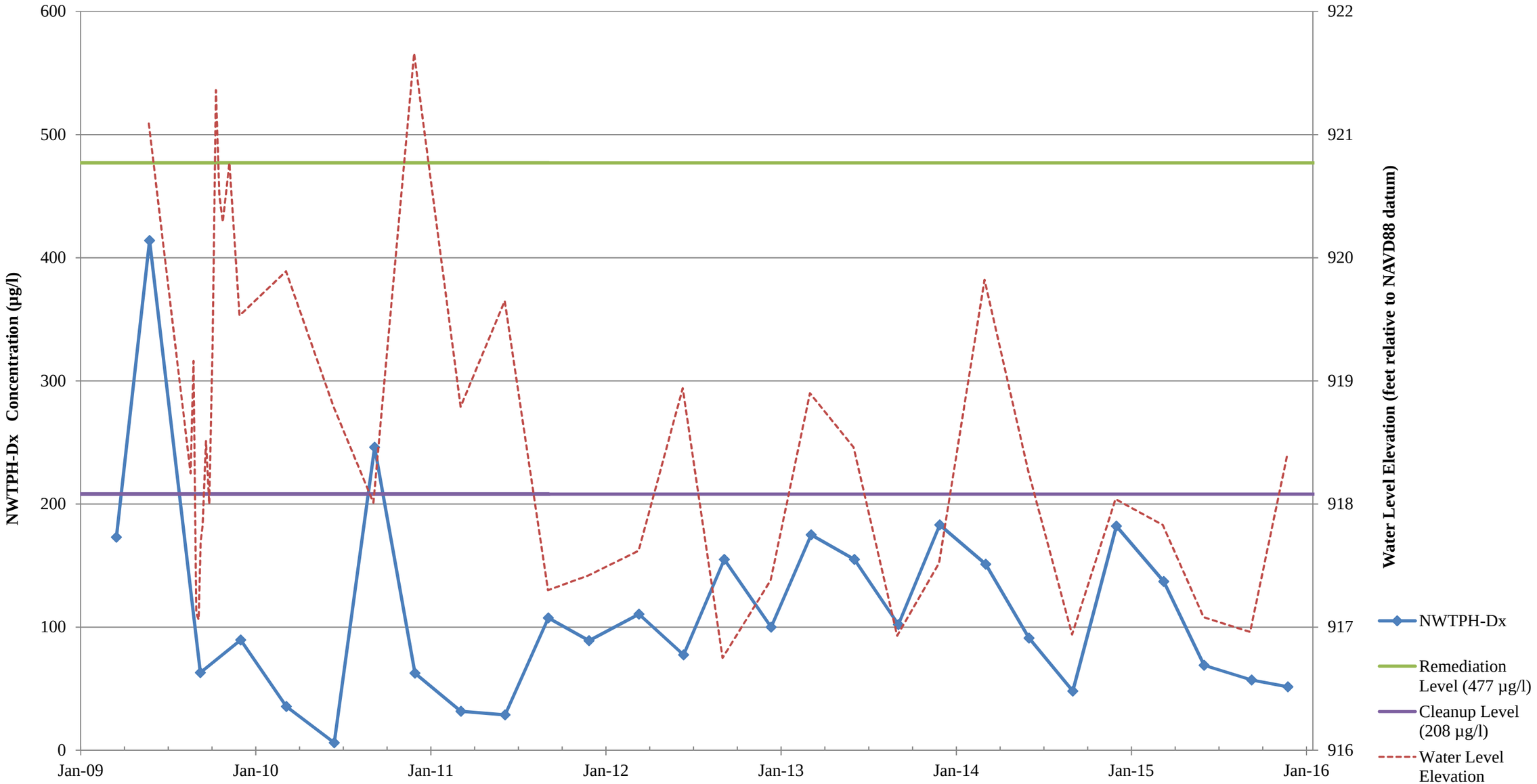

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Farallon PN: 683-043
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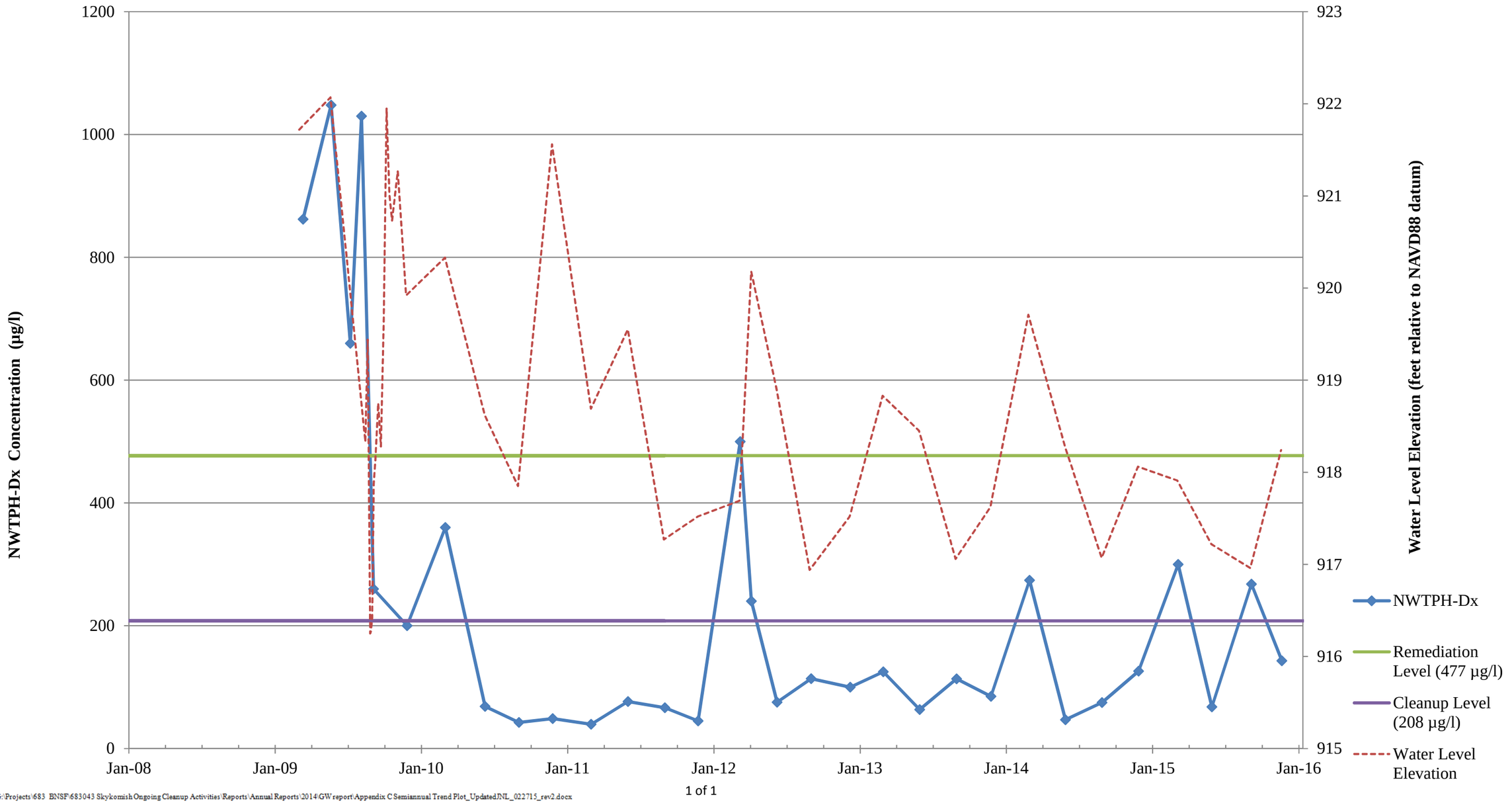

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Skykomish, Washington
Farallon PN: 683-043
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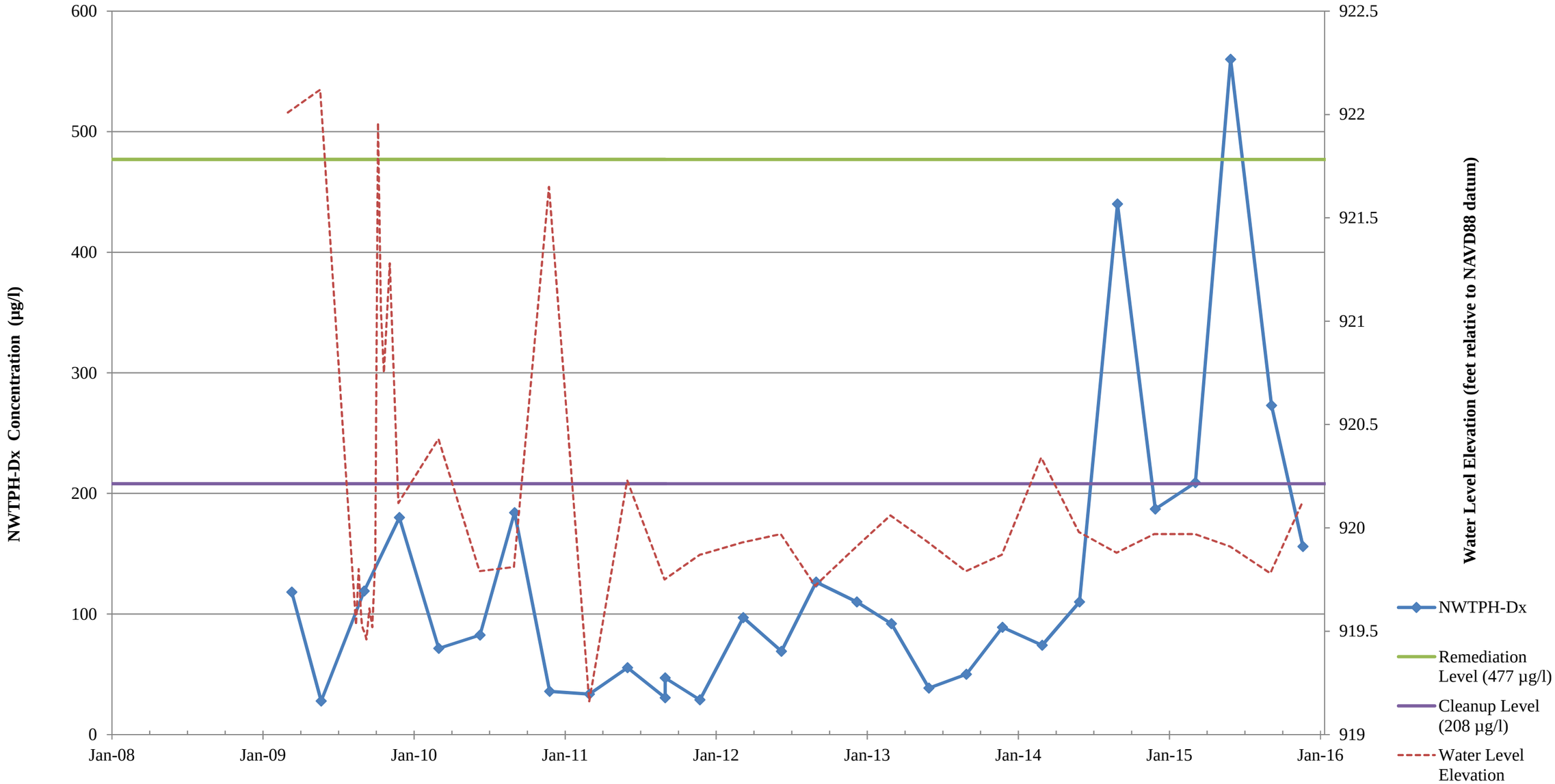

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Skykomish, Washington
Farallon PN: 683-043
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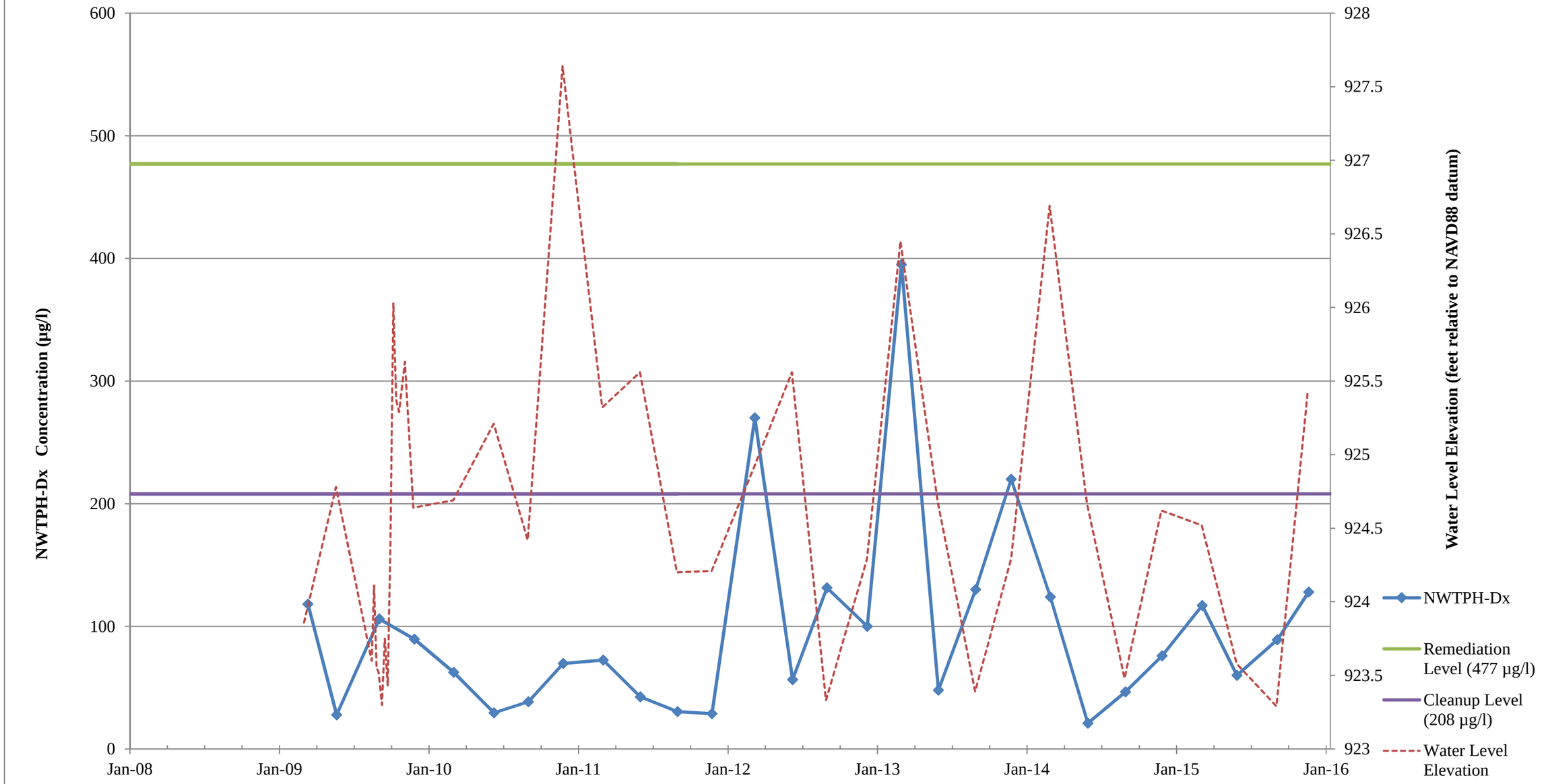

NWTPH-Dx Trend Plot
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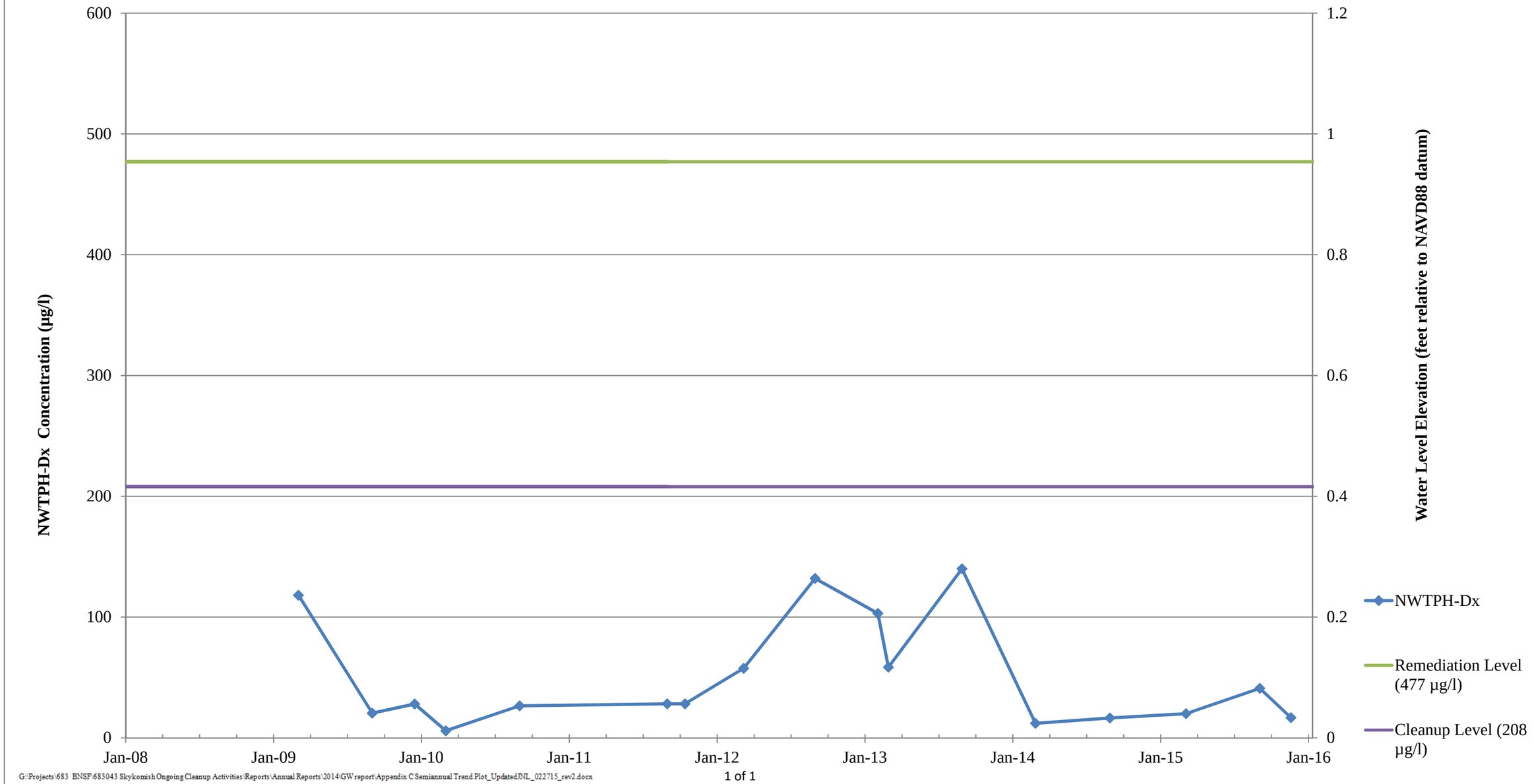

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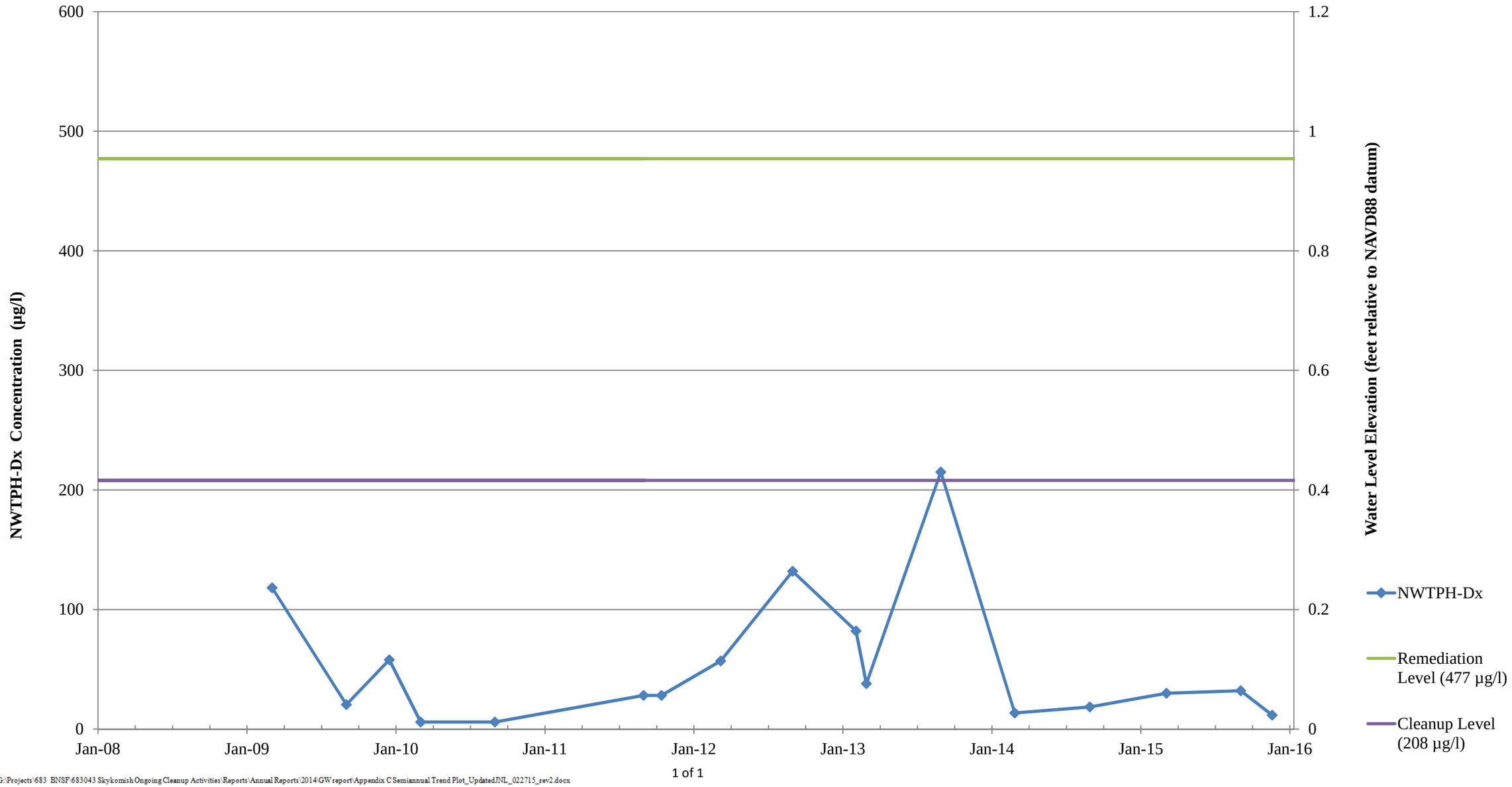
Farallon PN: 683-043
S1-AU



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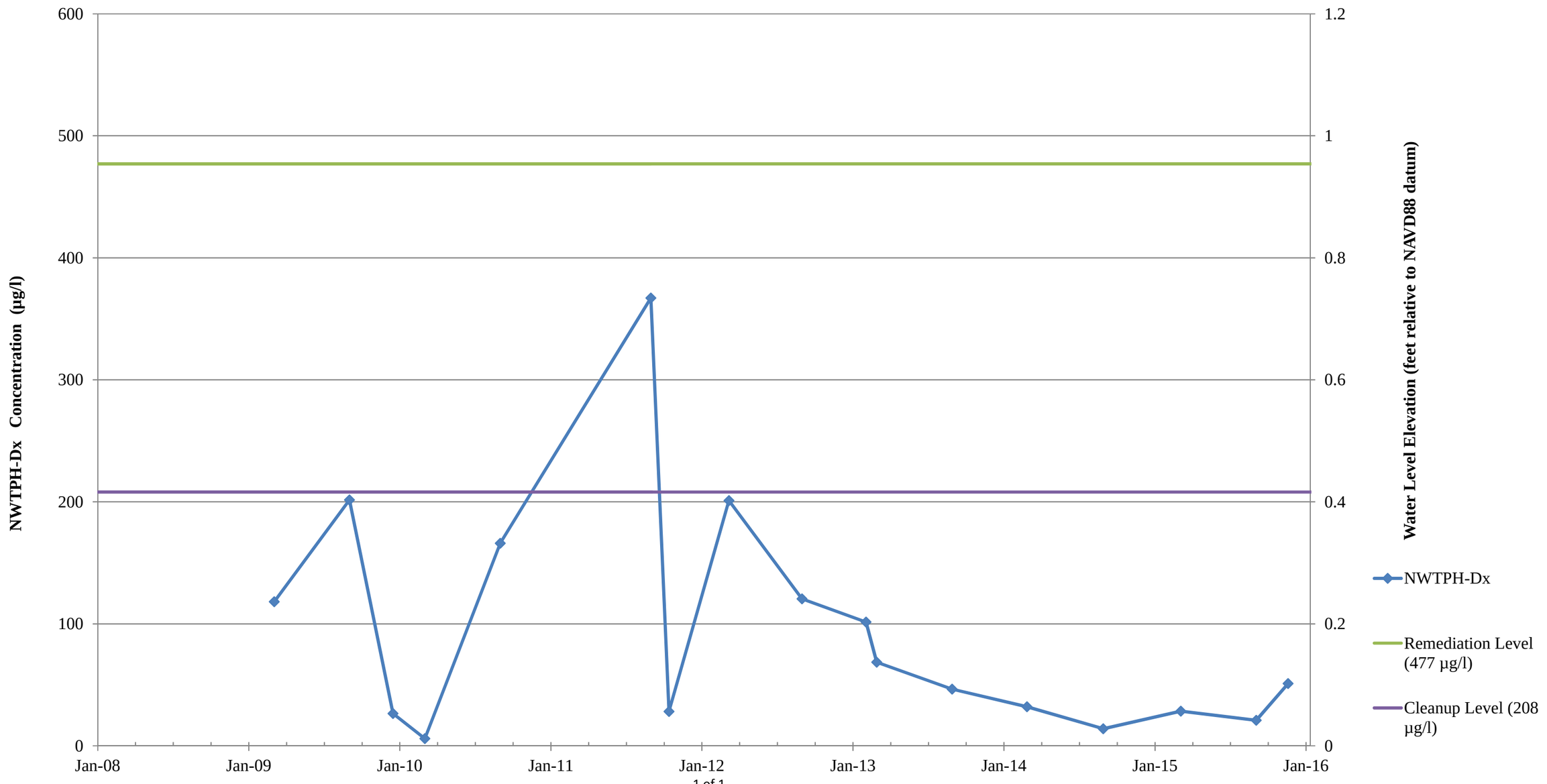
Skykomish, Washington
Farallon PN: 683-043
S1-BD



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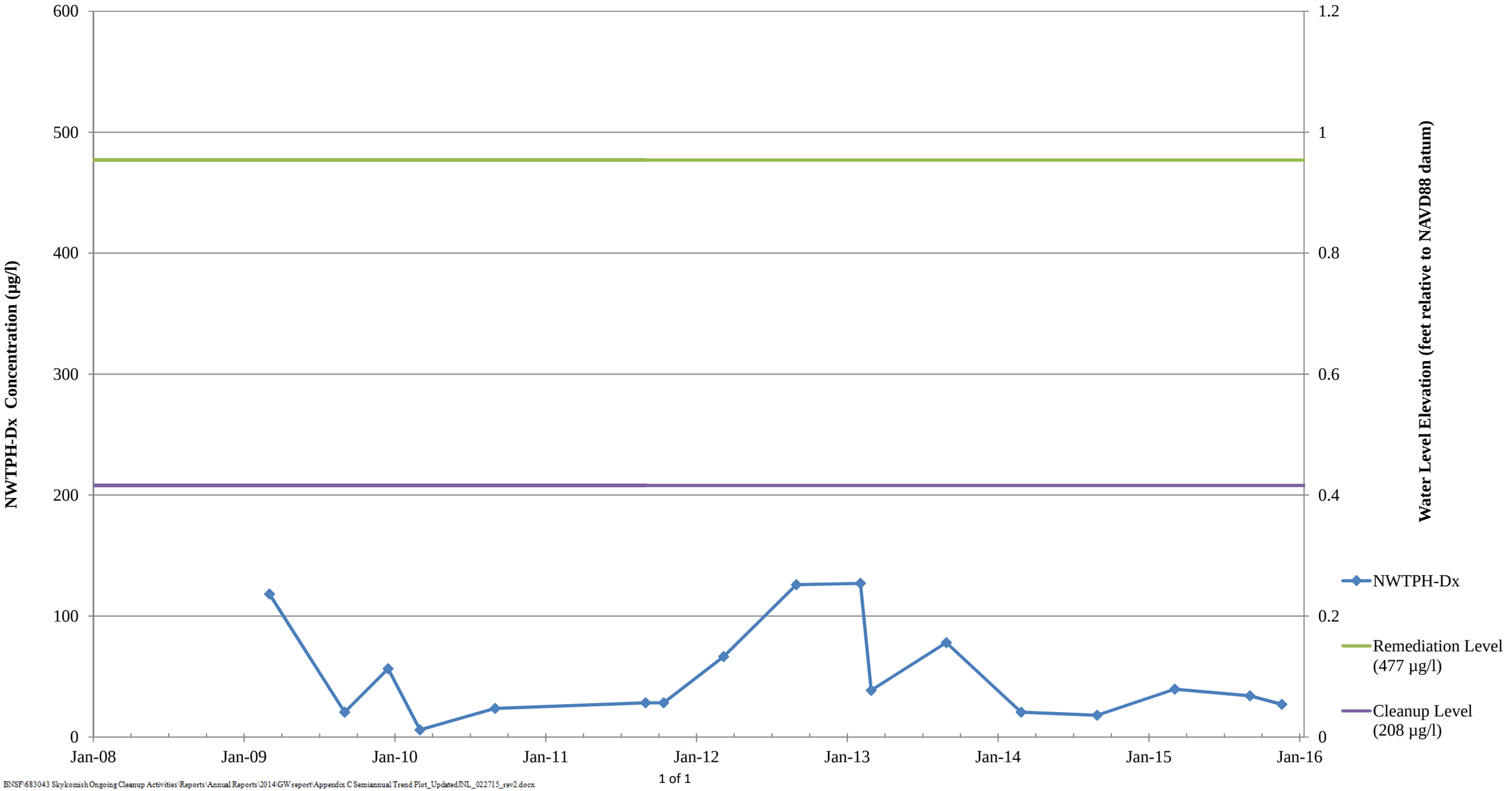
Skykomish, Washington
Farallon PN: 683-043
S1-BU



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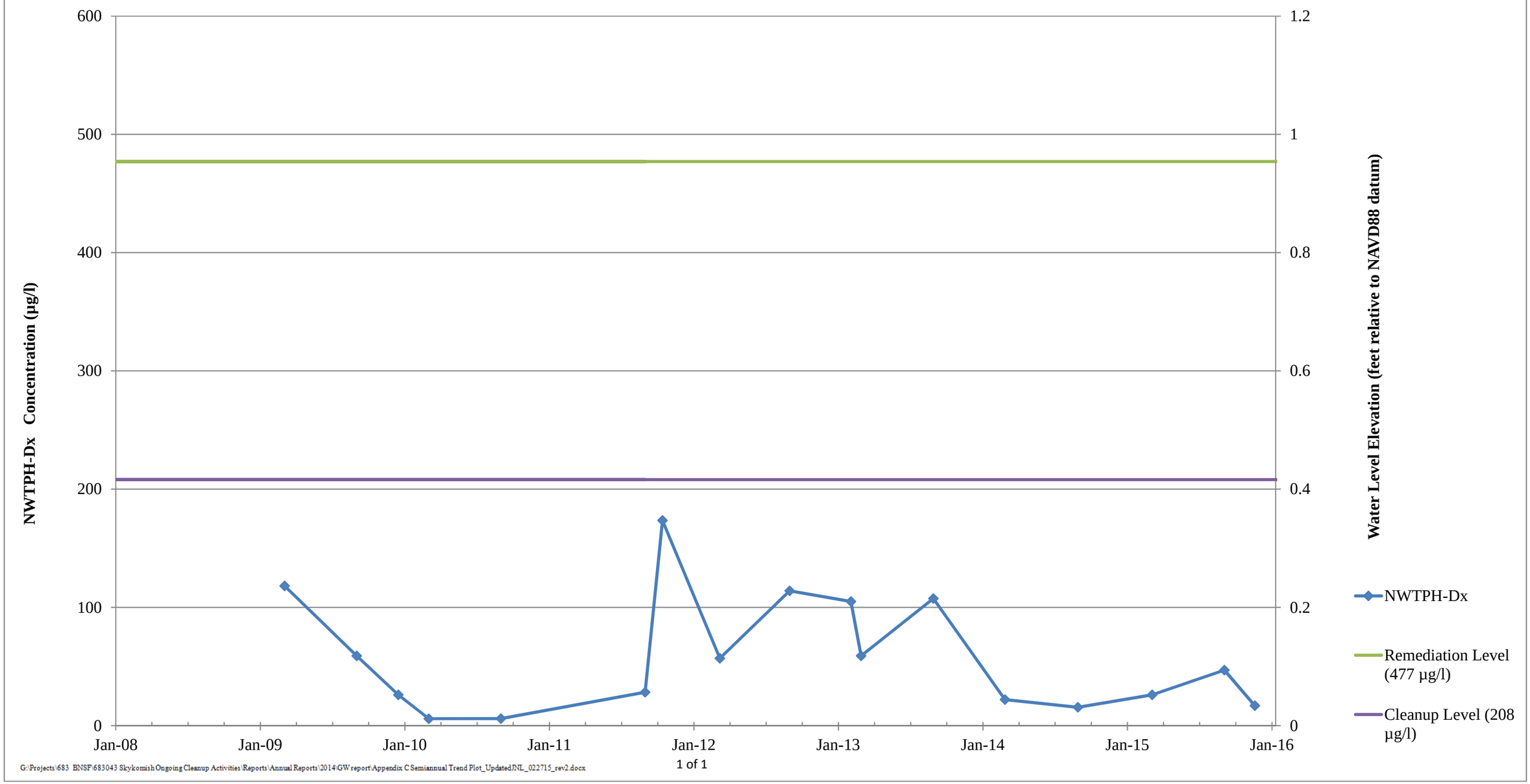

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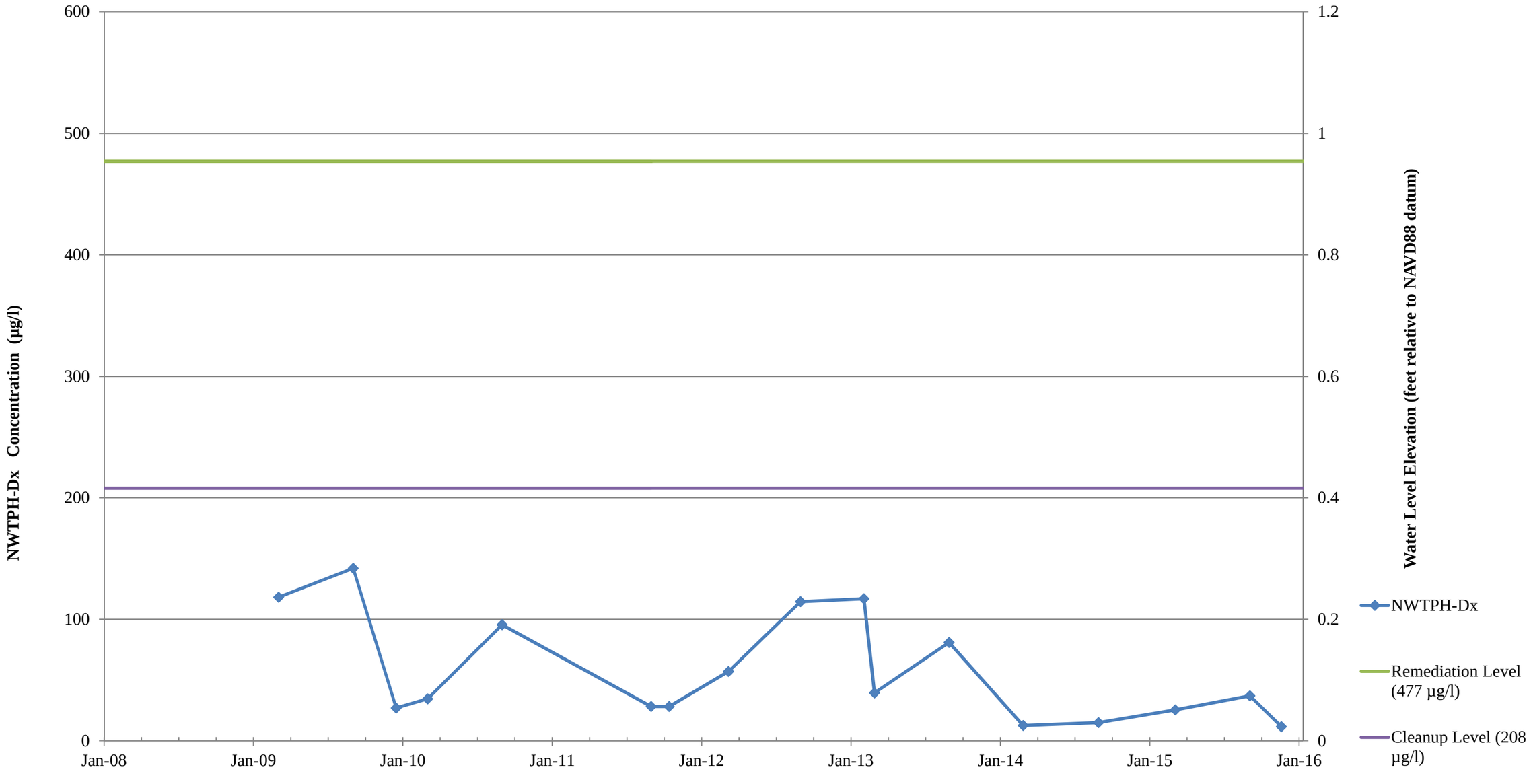
Farallon PN: 683-043
S2-AU



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Farallon PN: 683-043
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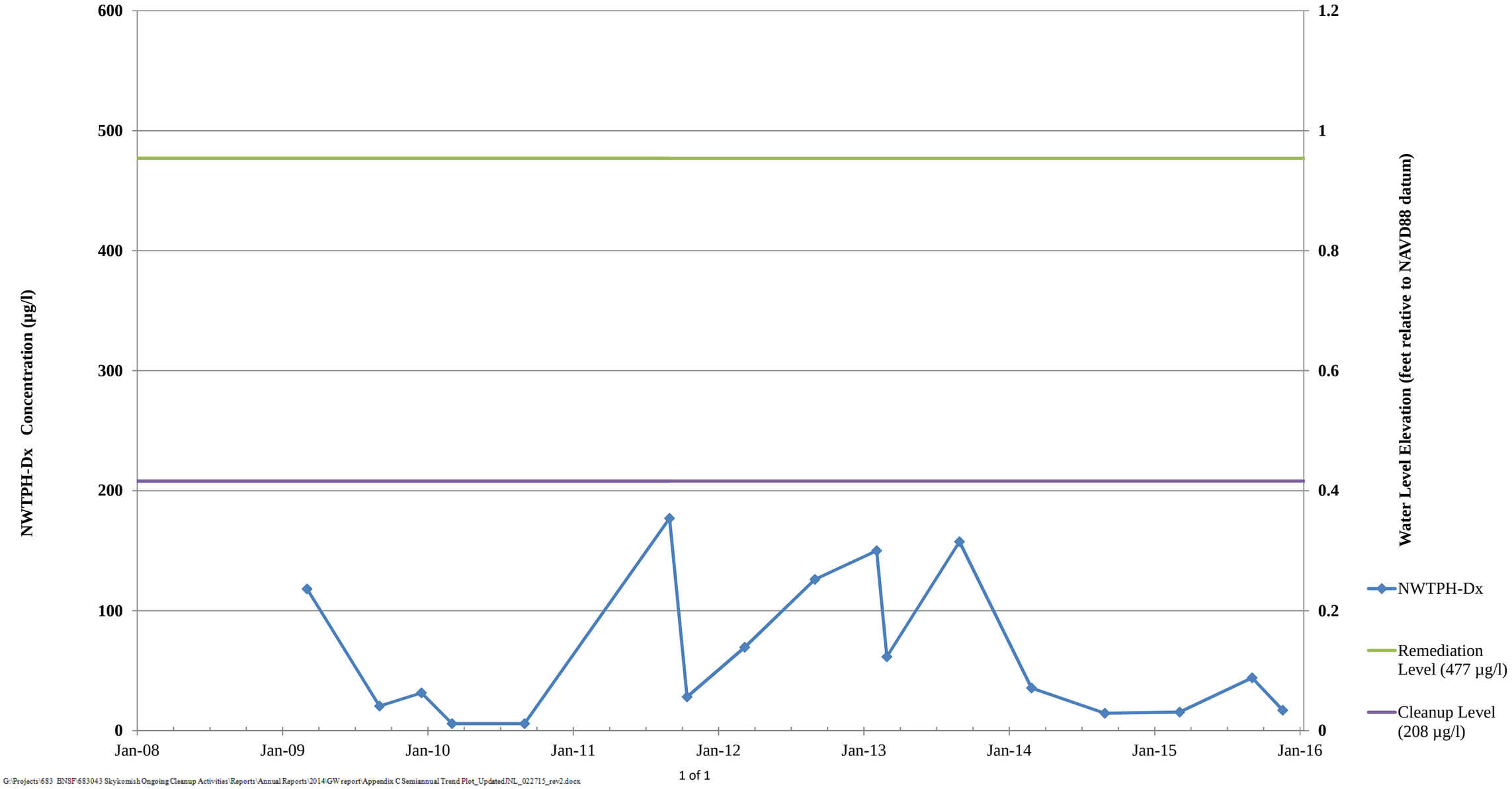

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Farallon PN: 683-043
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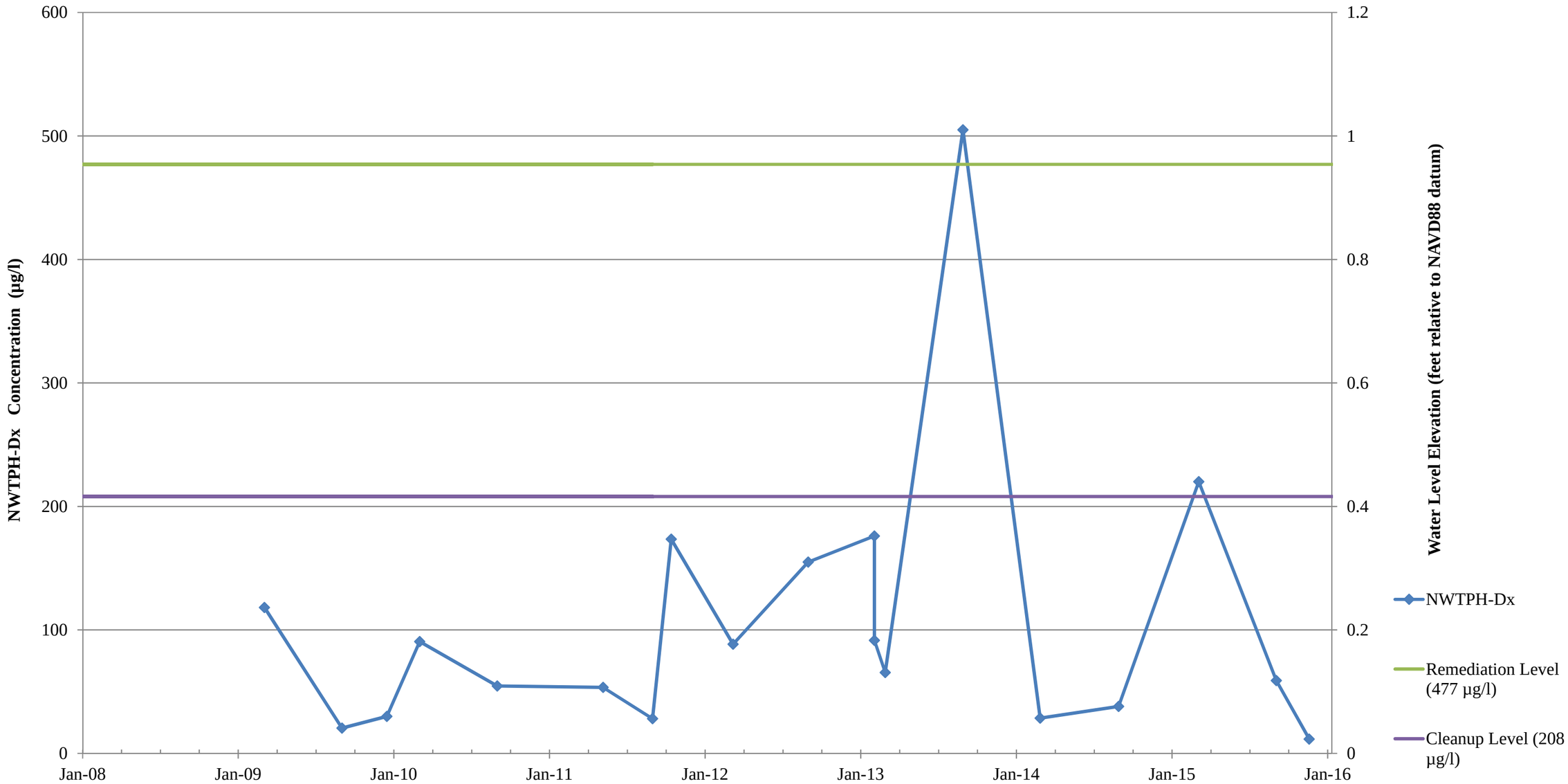

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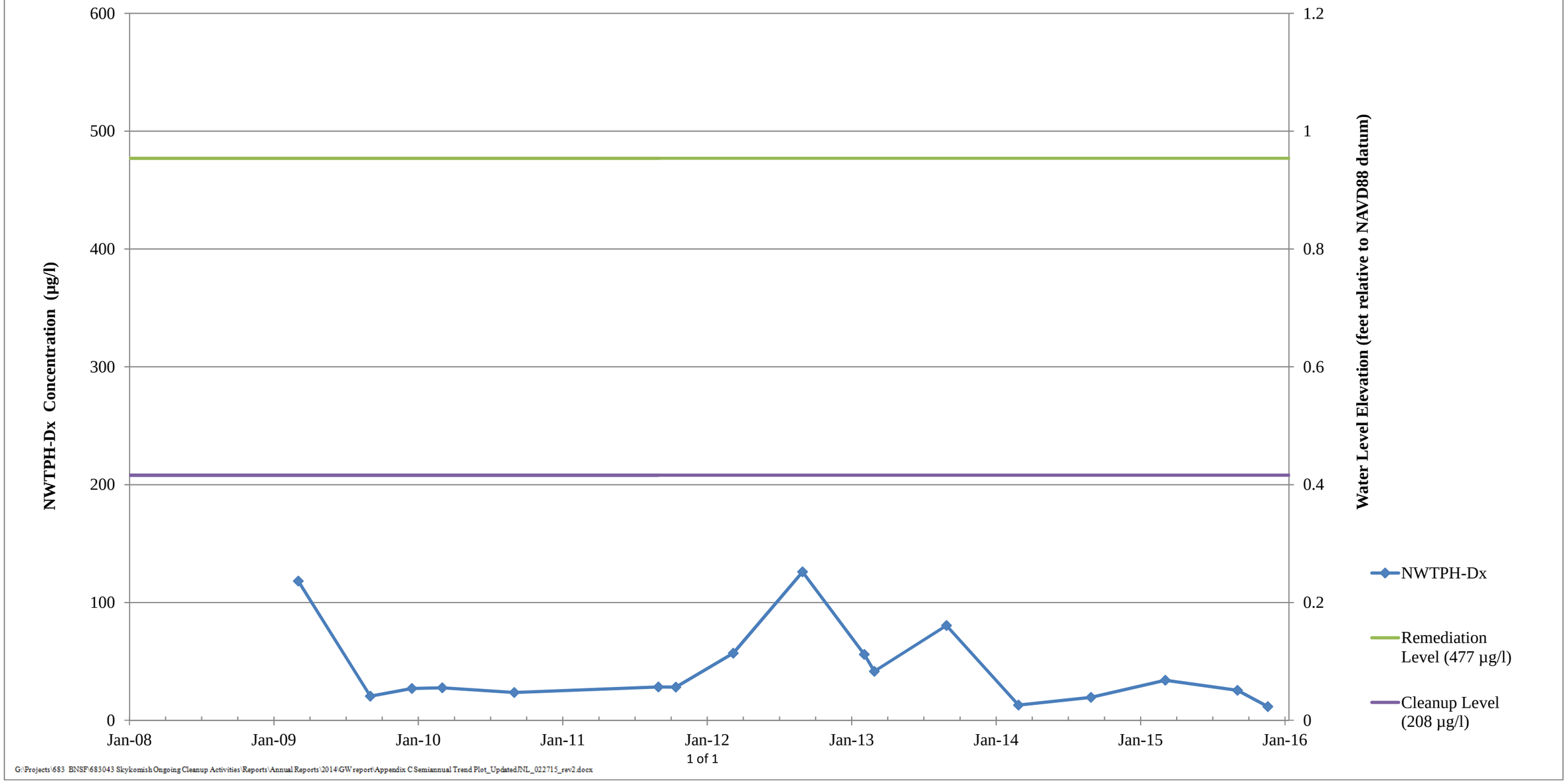

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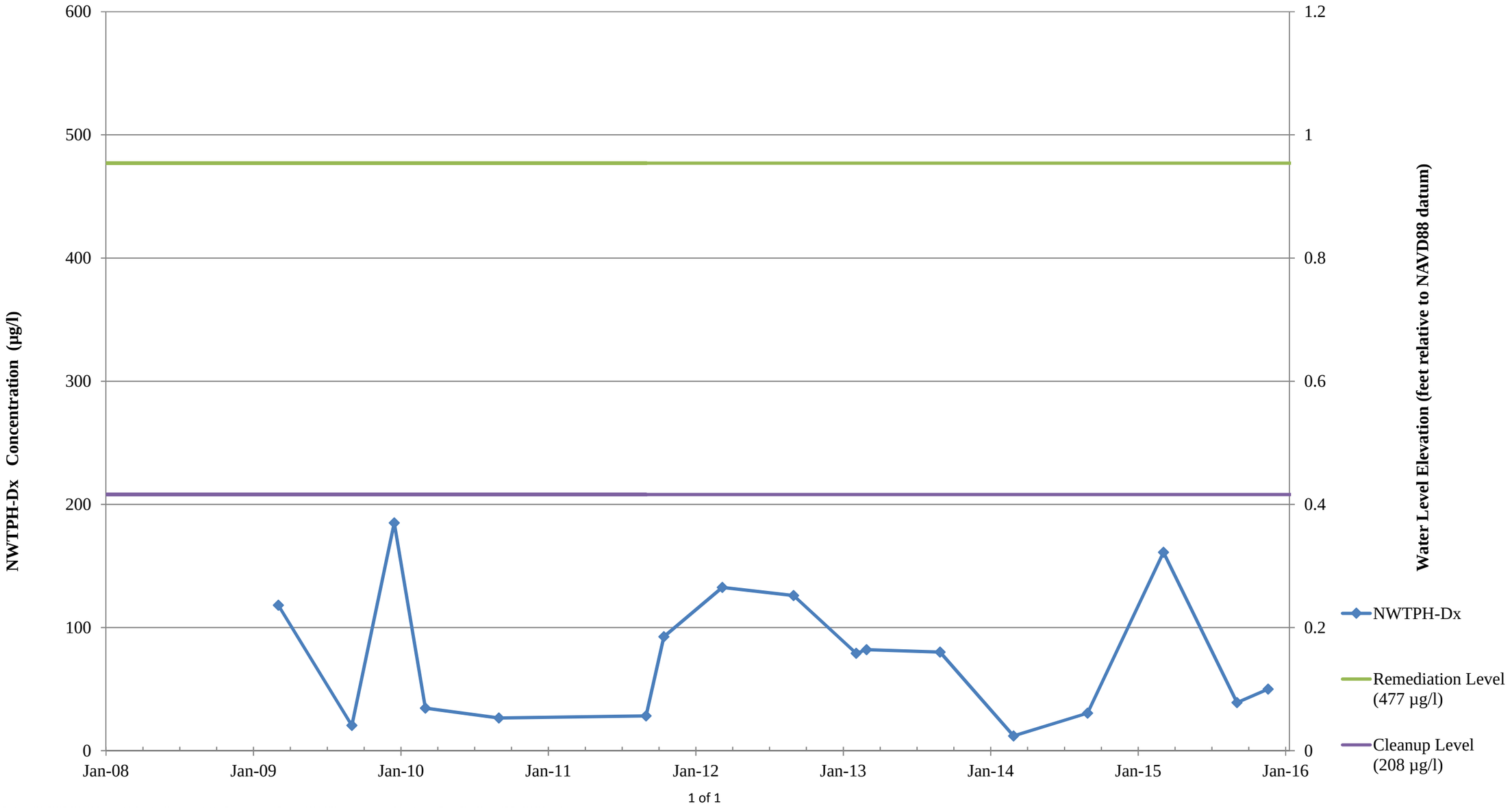
Farallon PN: 683-043
S3-AU



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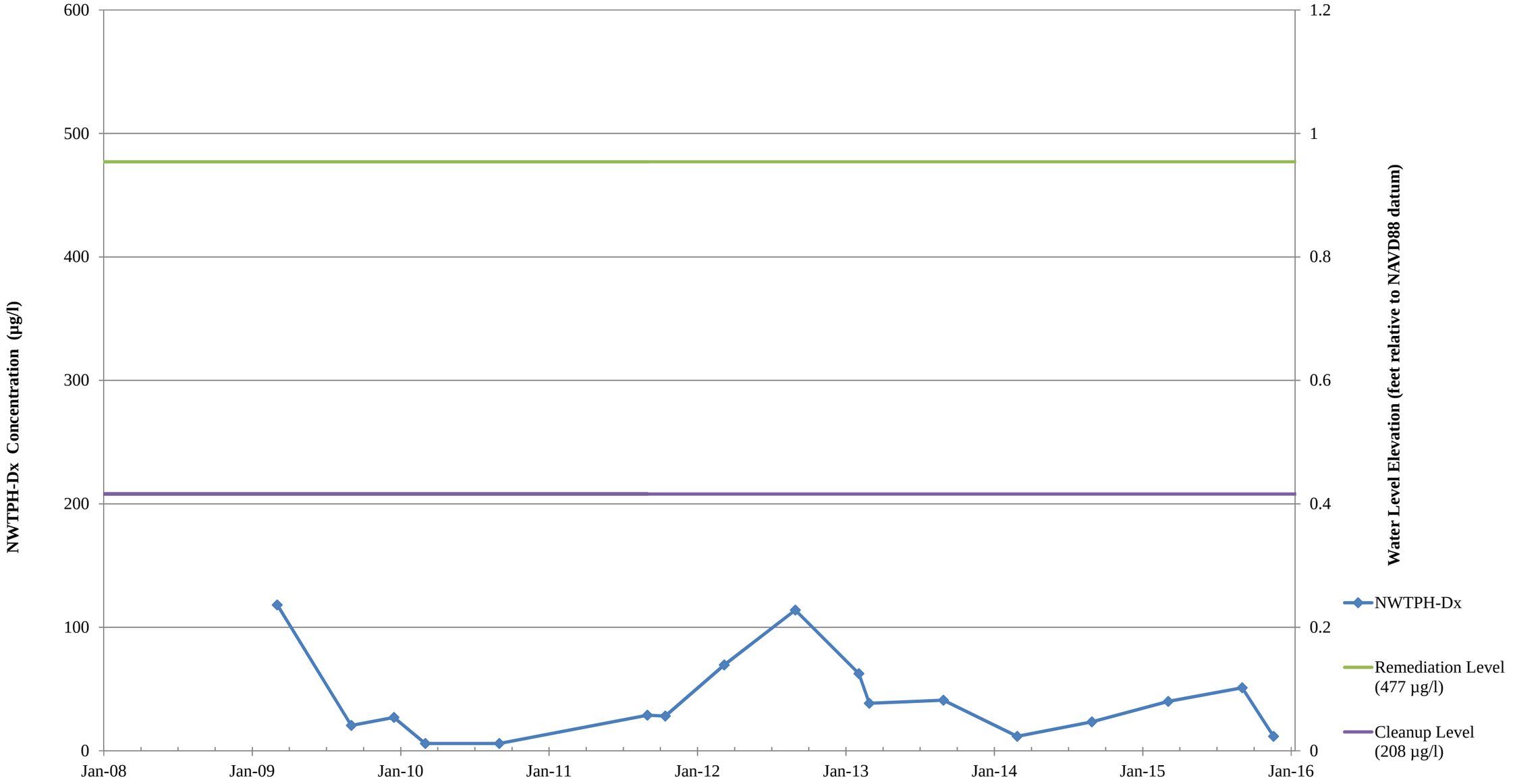

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BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
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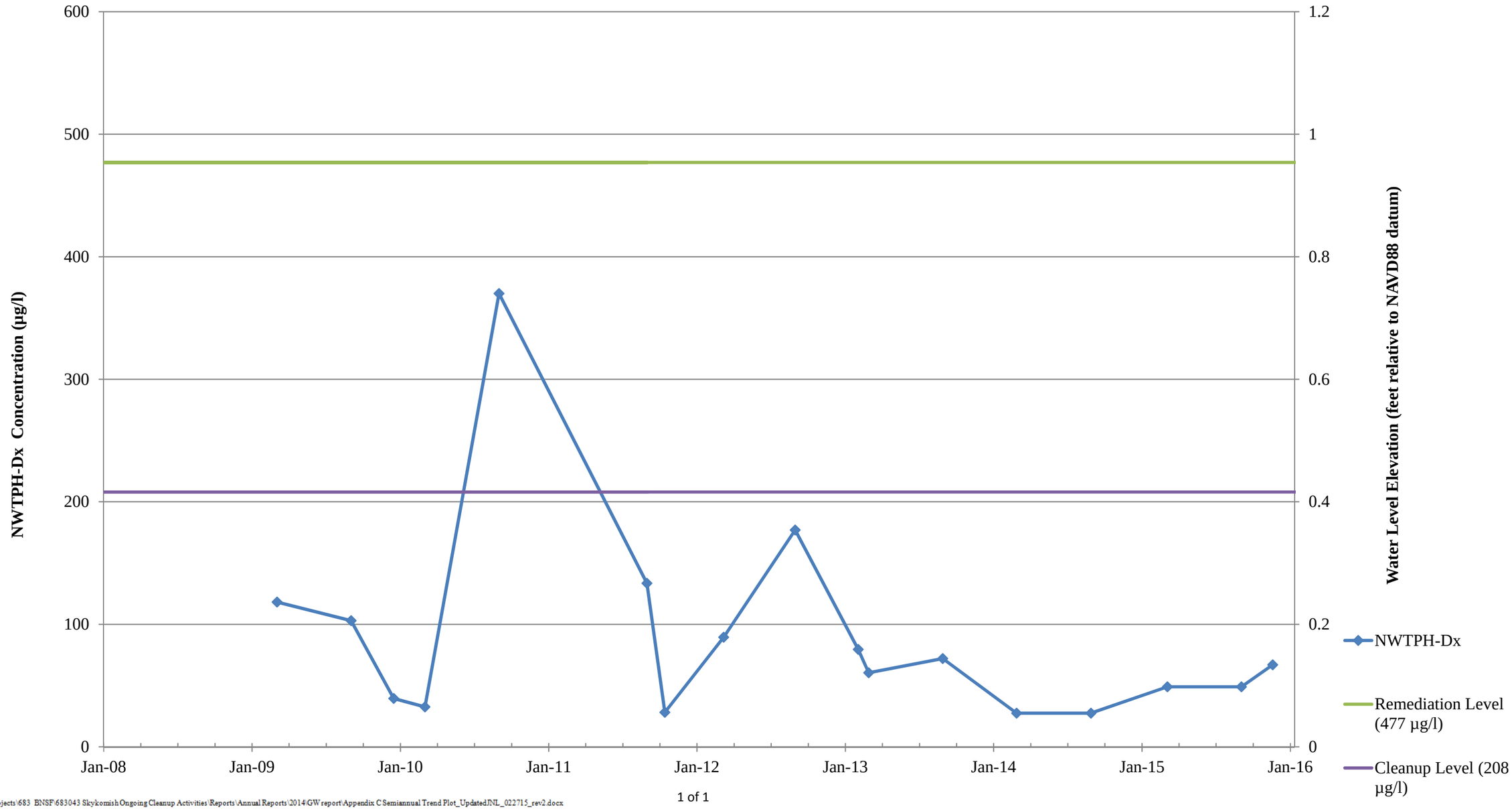

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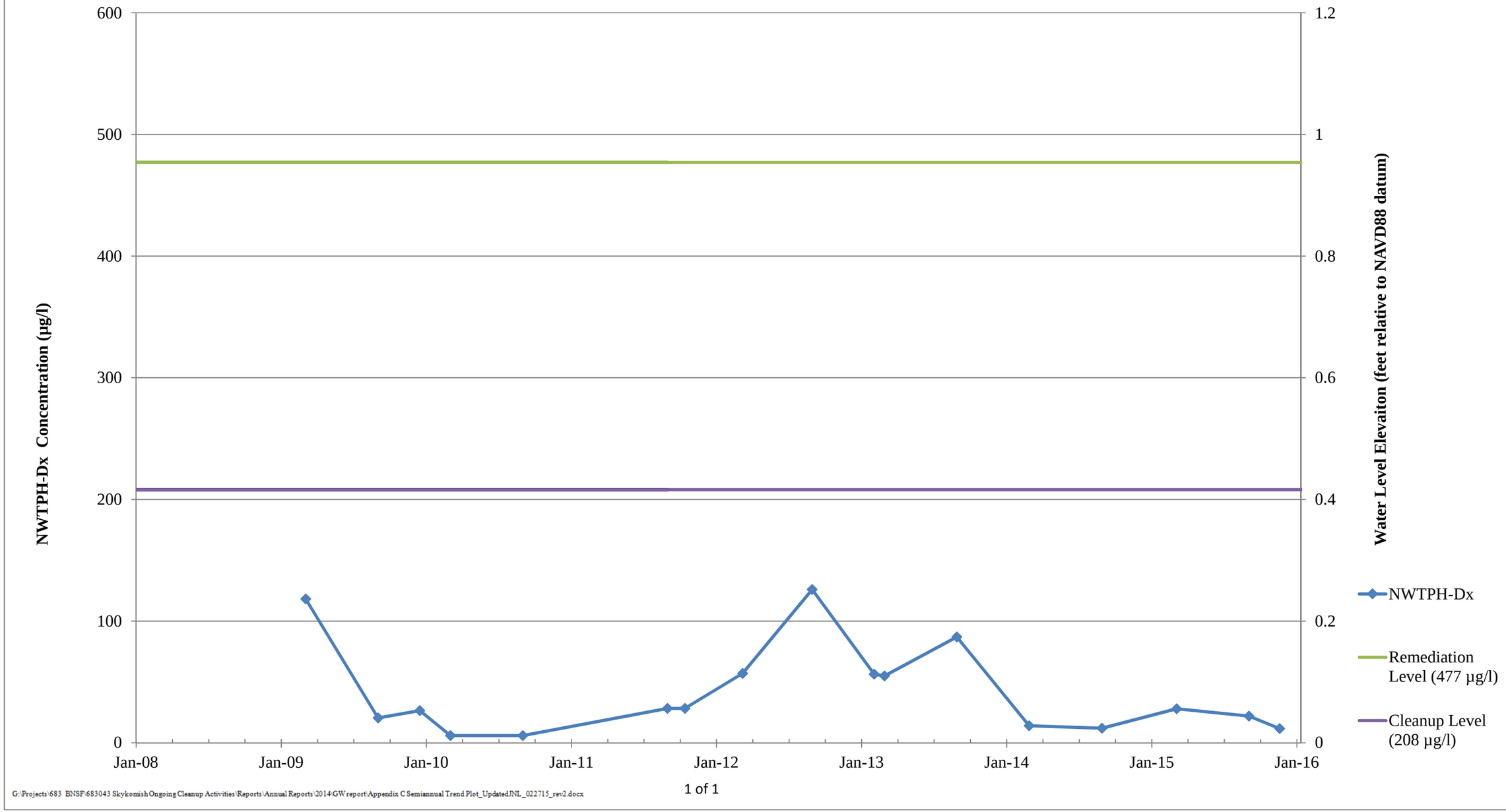

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Skykomish, Washington
Farallon PN: 683-043
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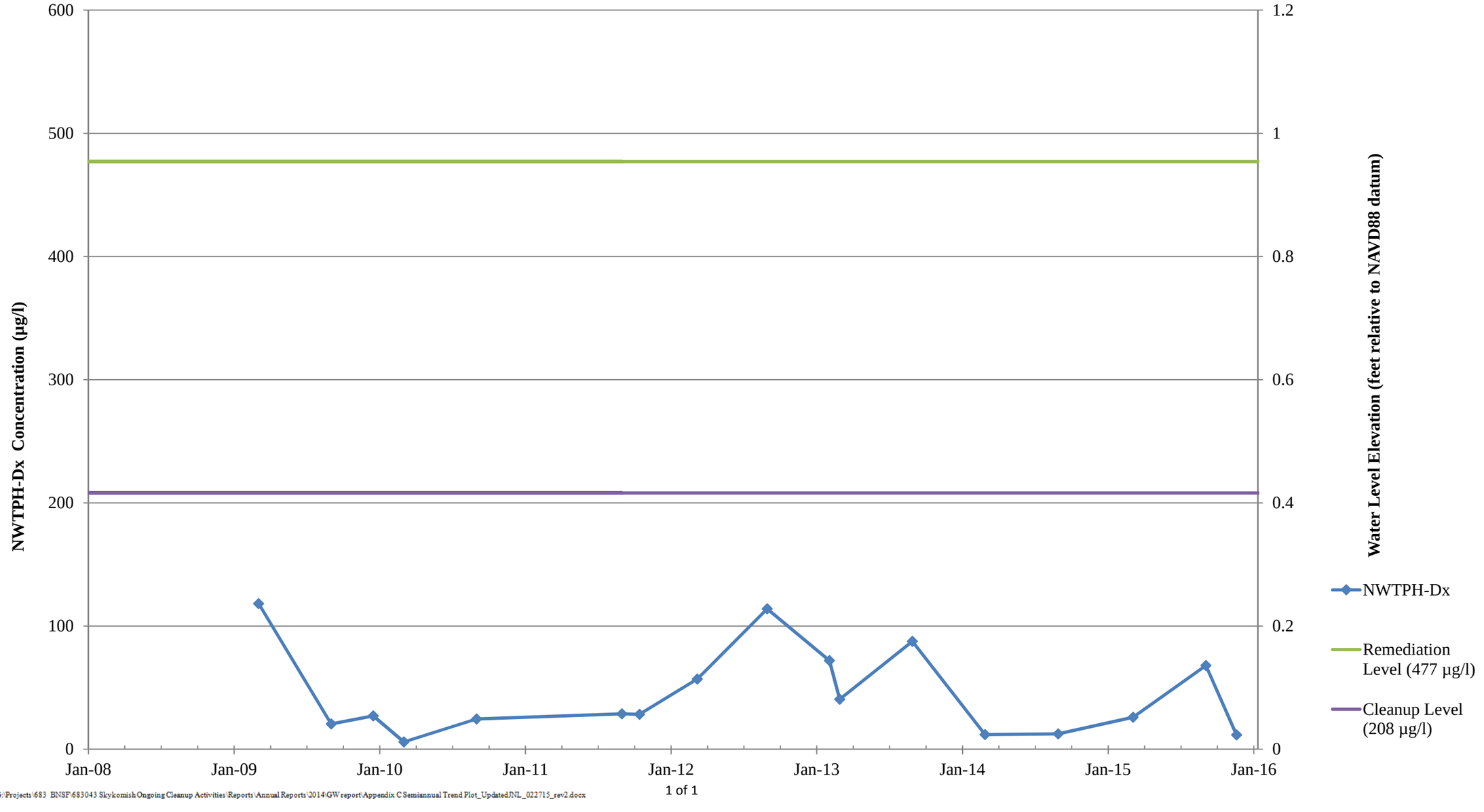

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Skykomish, Washington
Farallon PN: 683-043
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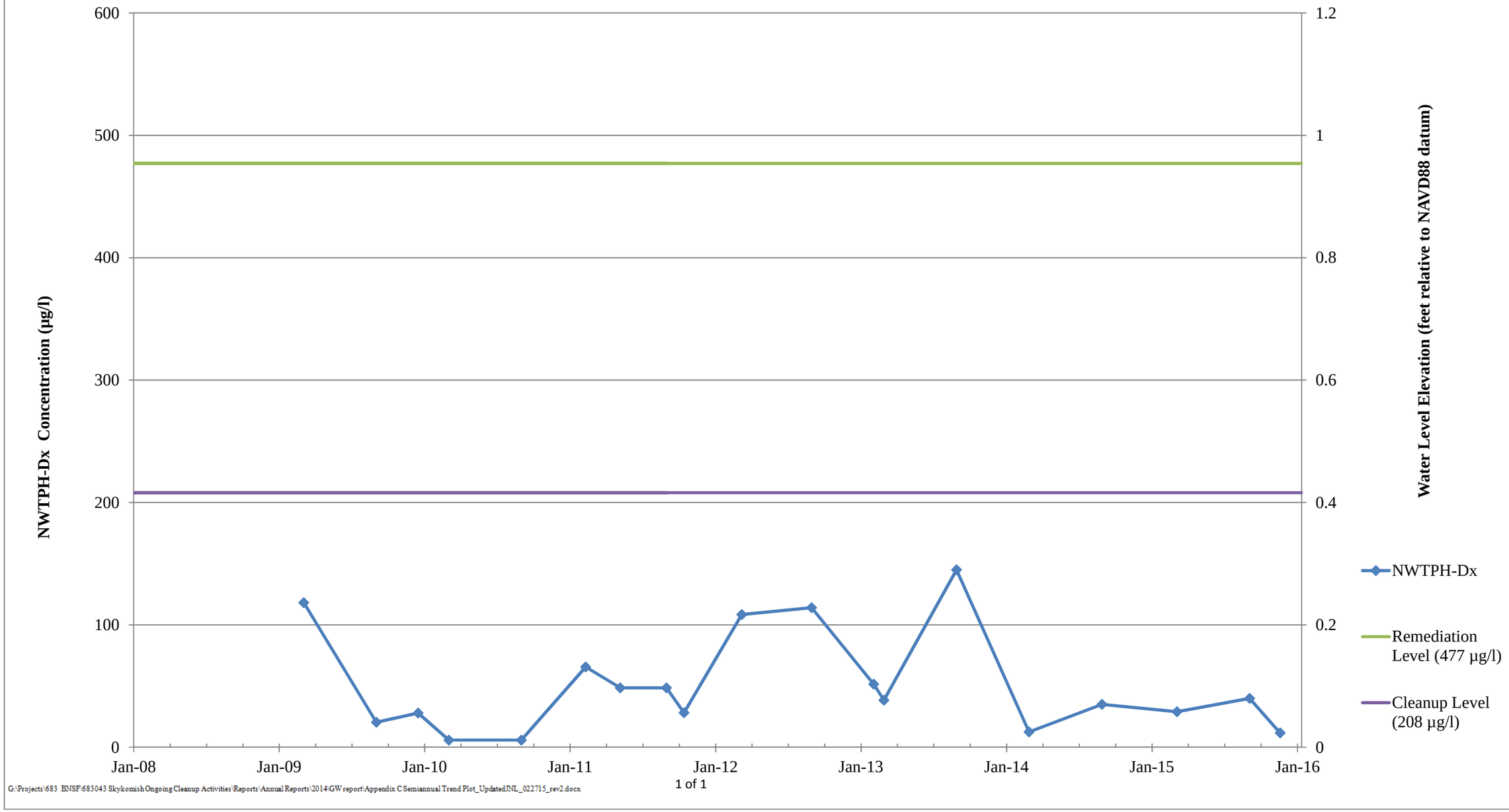

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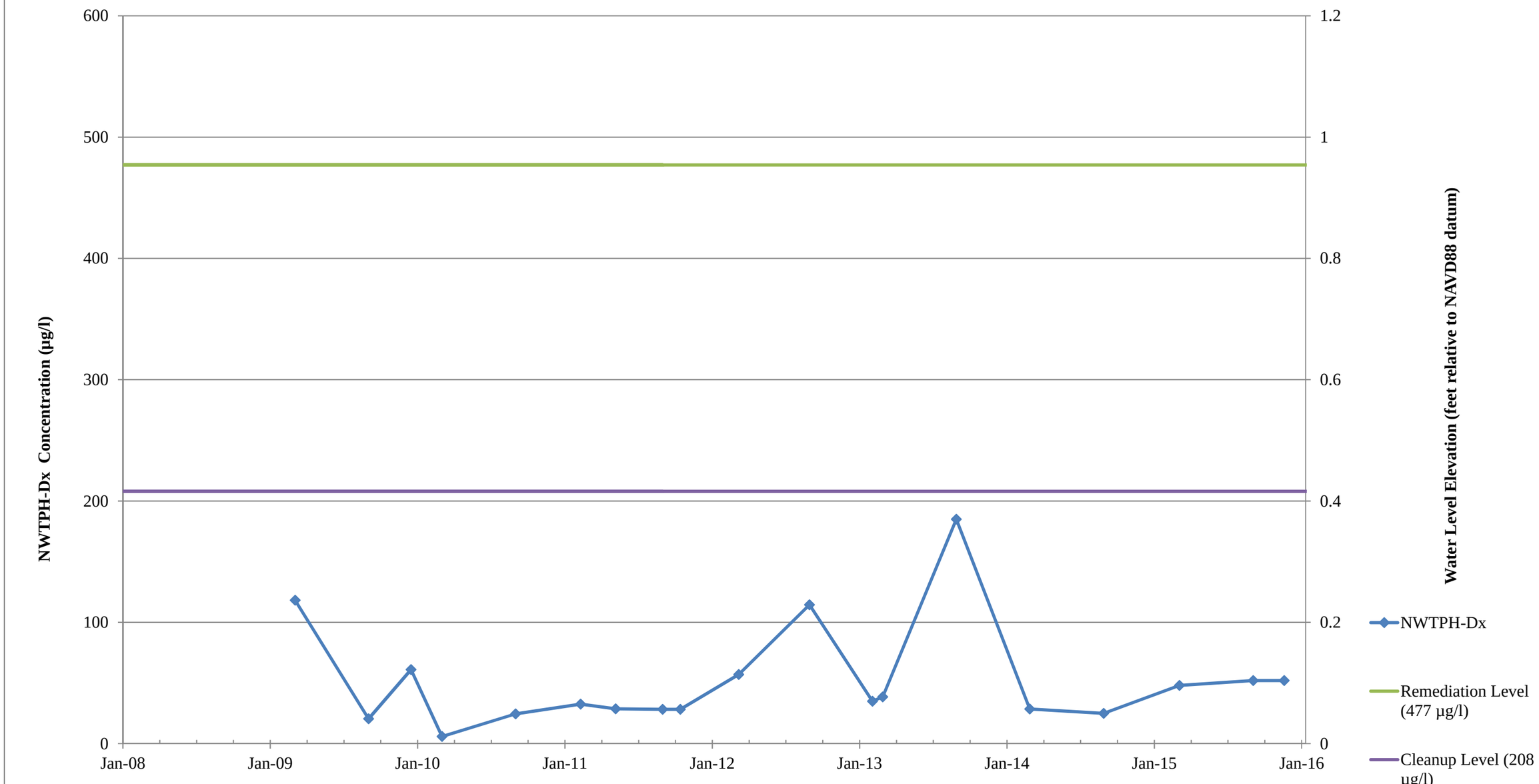
Skykomish, Washington
Farallon PN: 683-043
S4-AU



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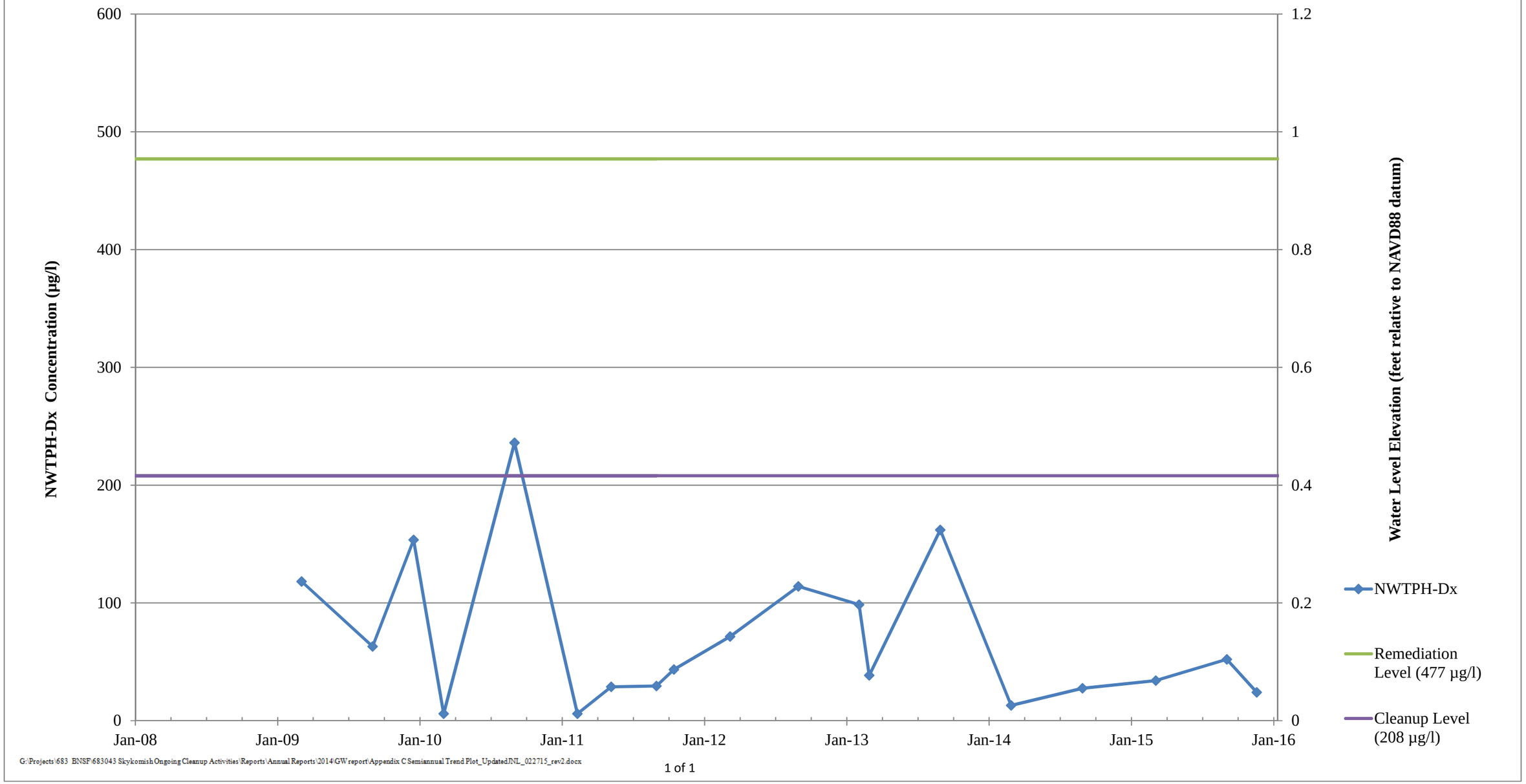
Farallon PN: 683-043
S4-BD



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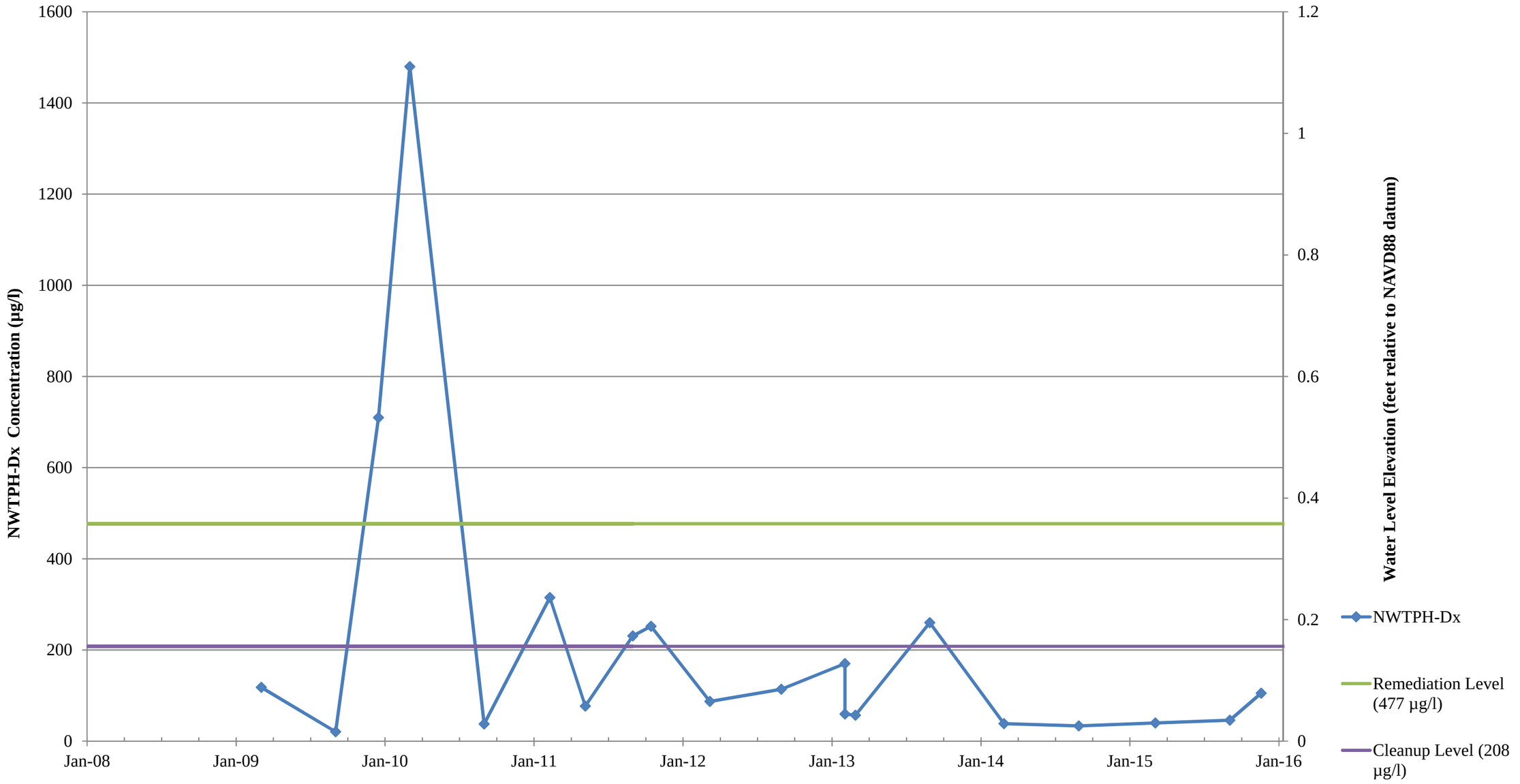
Skykomish, Washington
Farallon PN: 683-043
S4-BU



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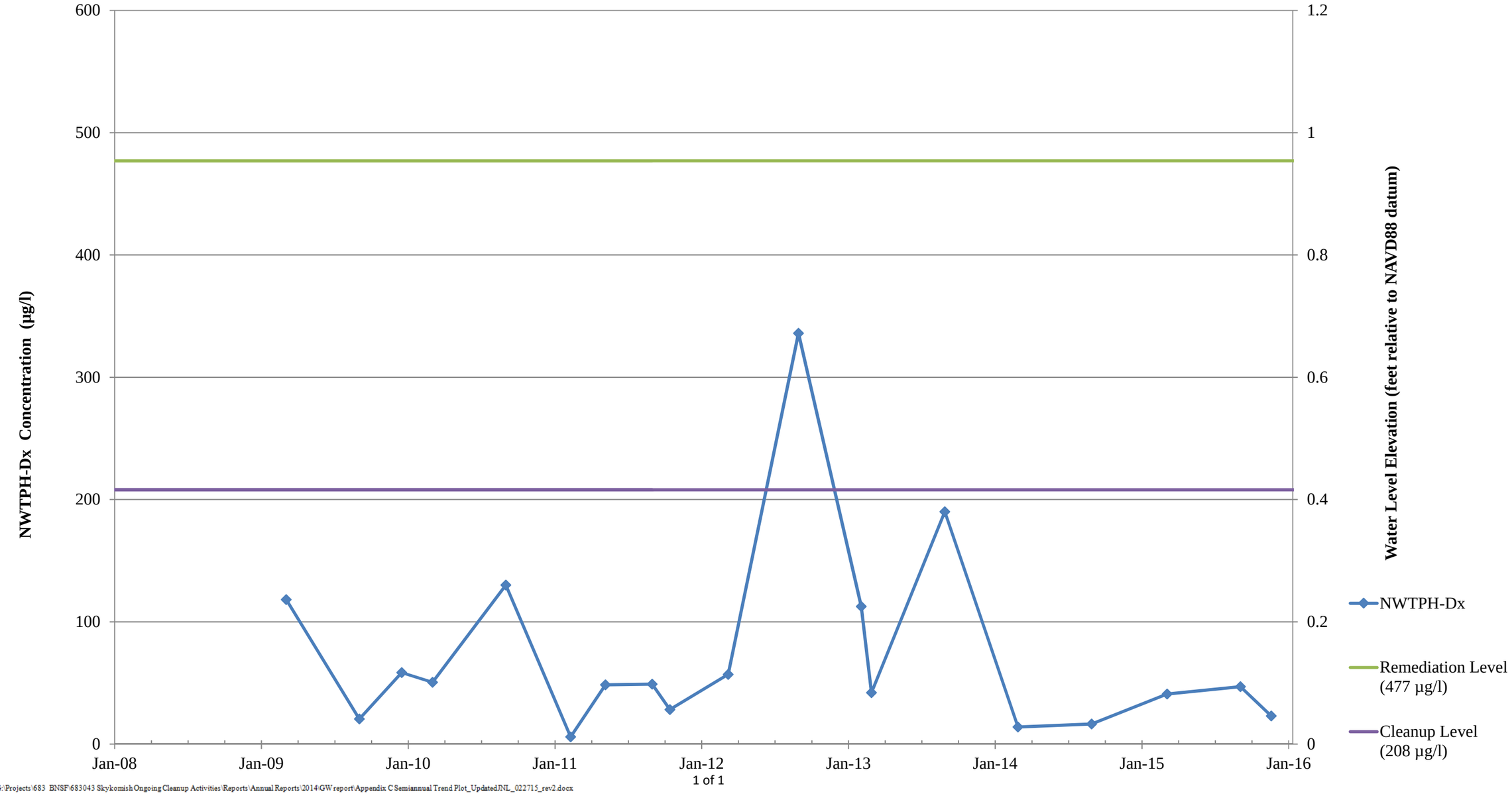
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S4-CD



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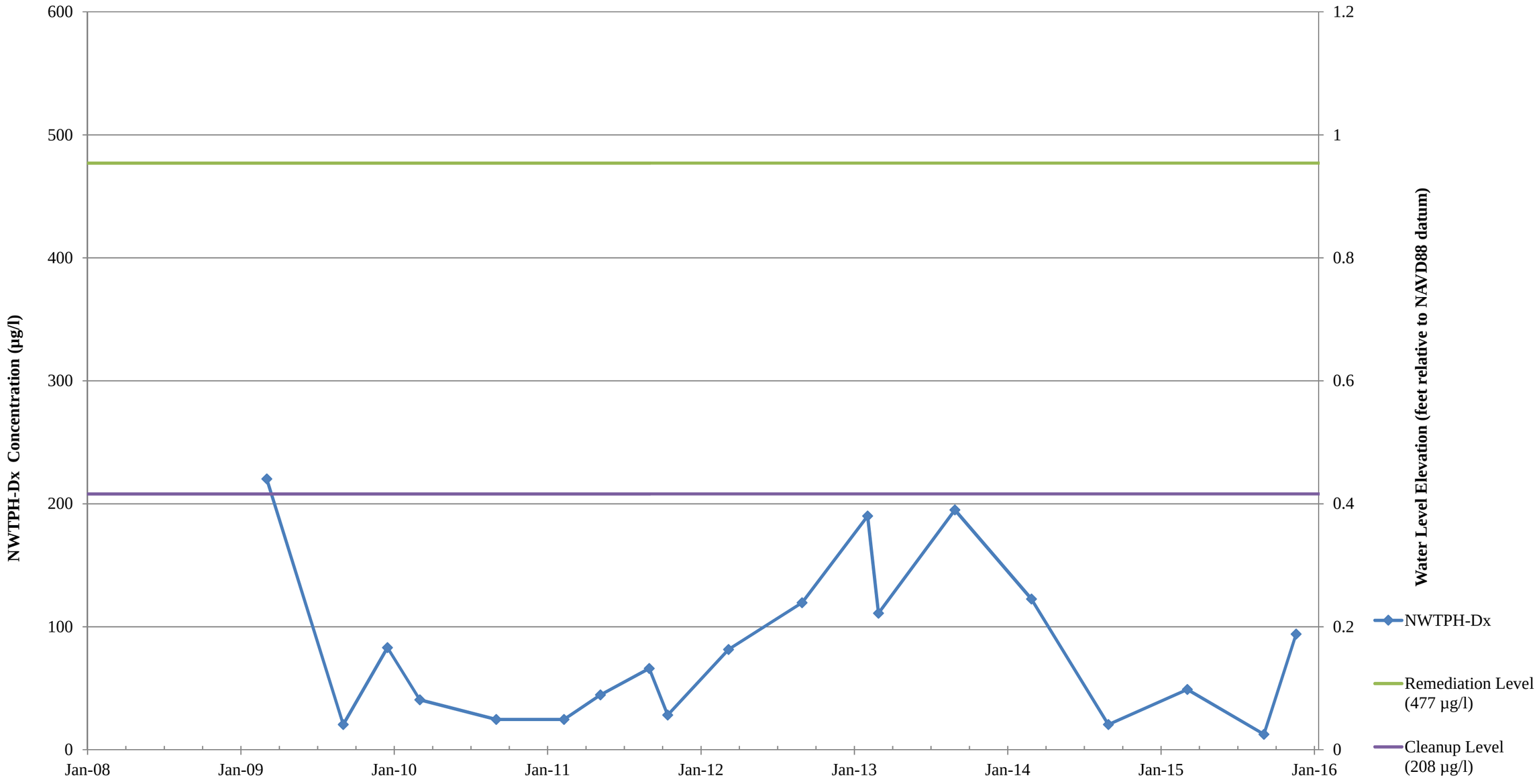
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
S4-CU



Levee Zone

NWTPH-Dx Trend Plot
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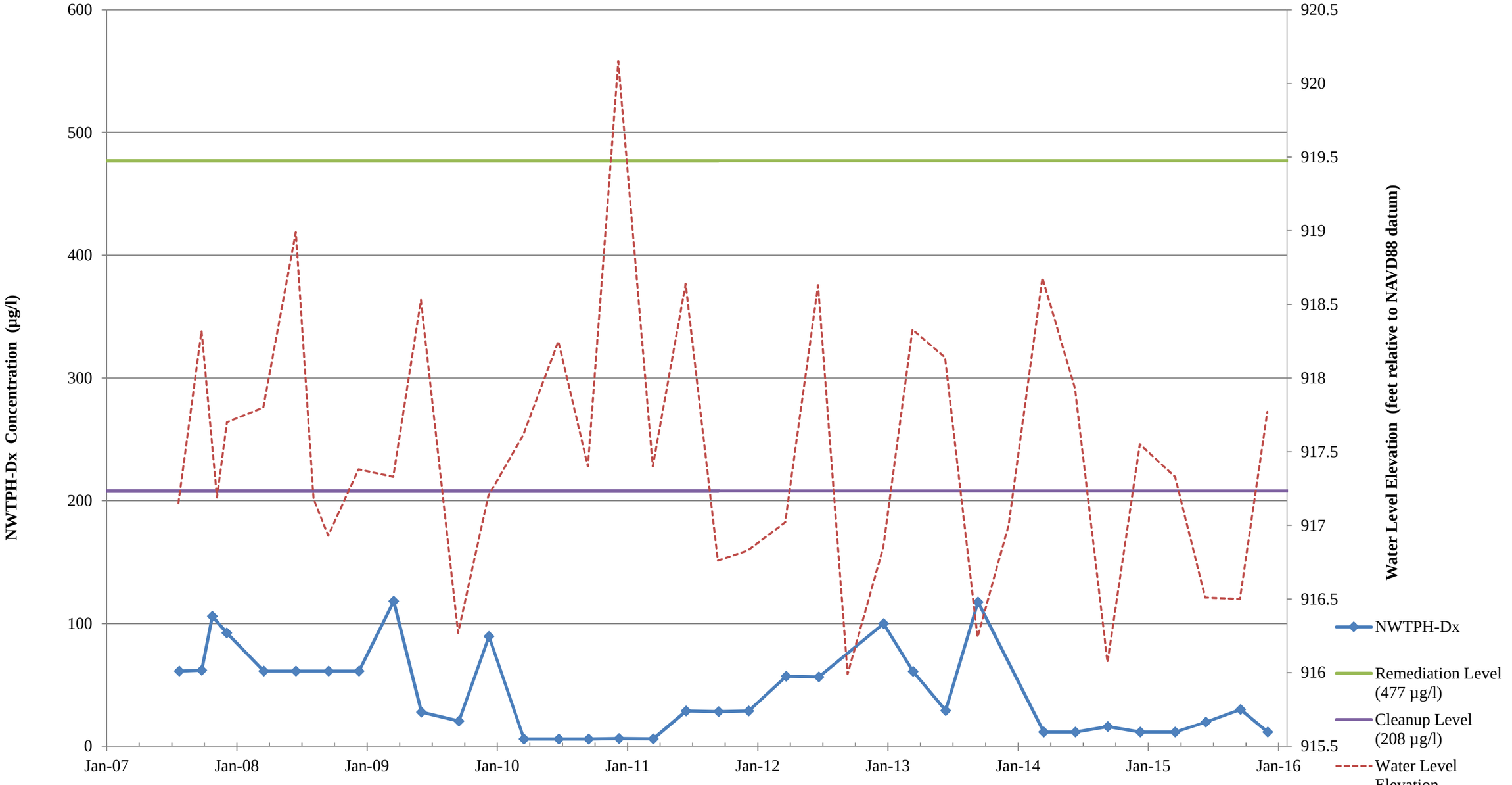
Skykomish, Washington
Farallon PN: 683-043
5-W-14



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Skykomish, Washington
Farallon PN: 683-043
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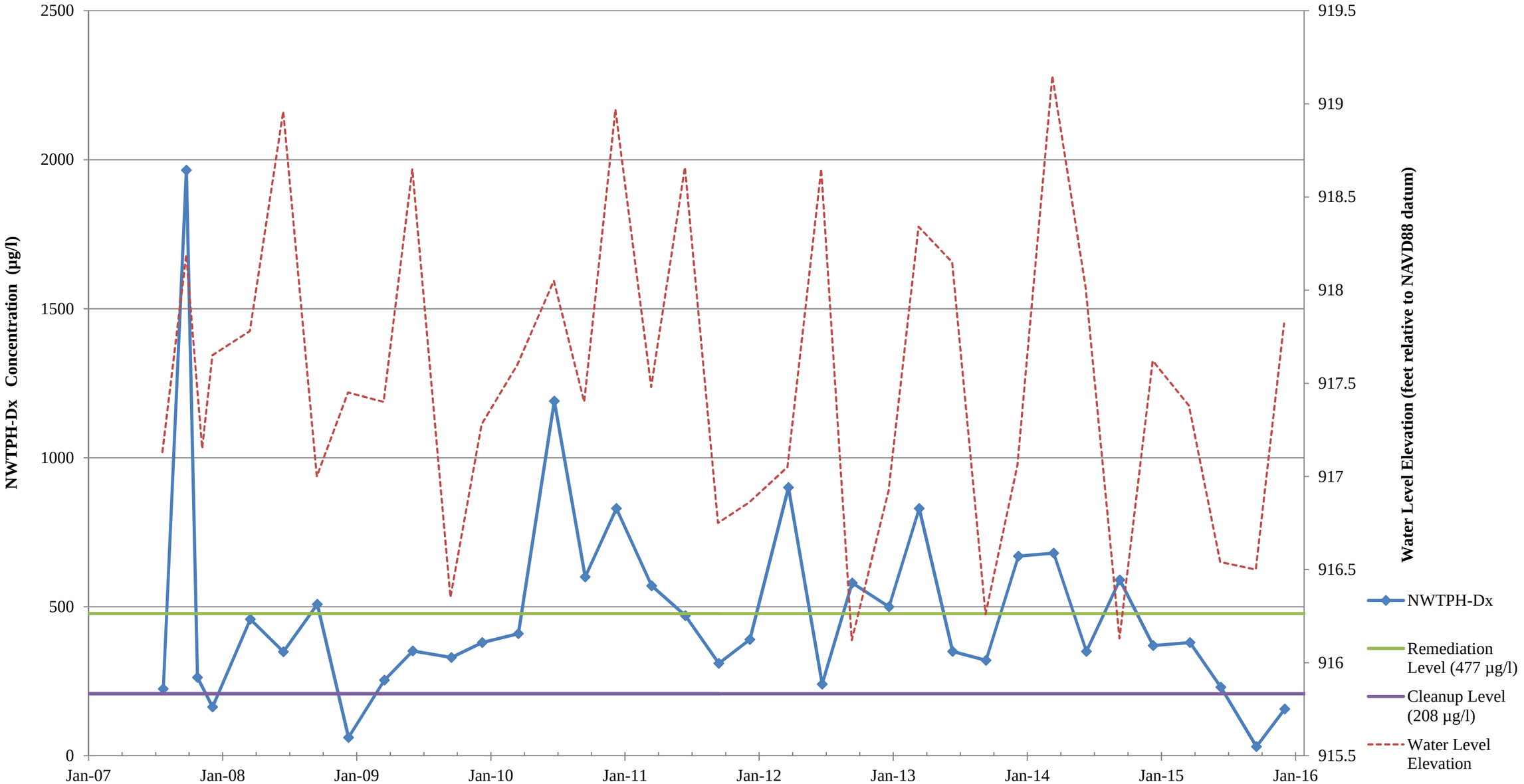

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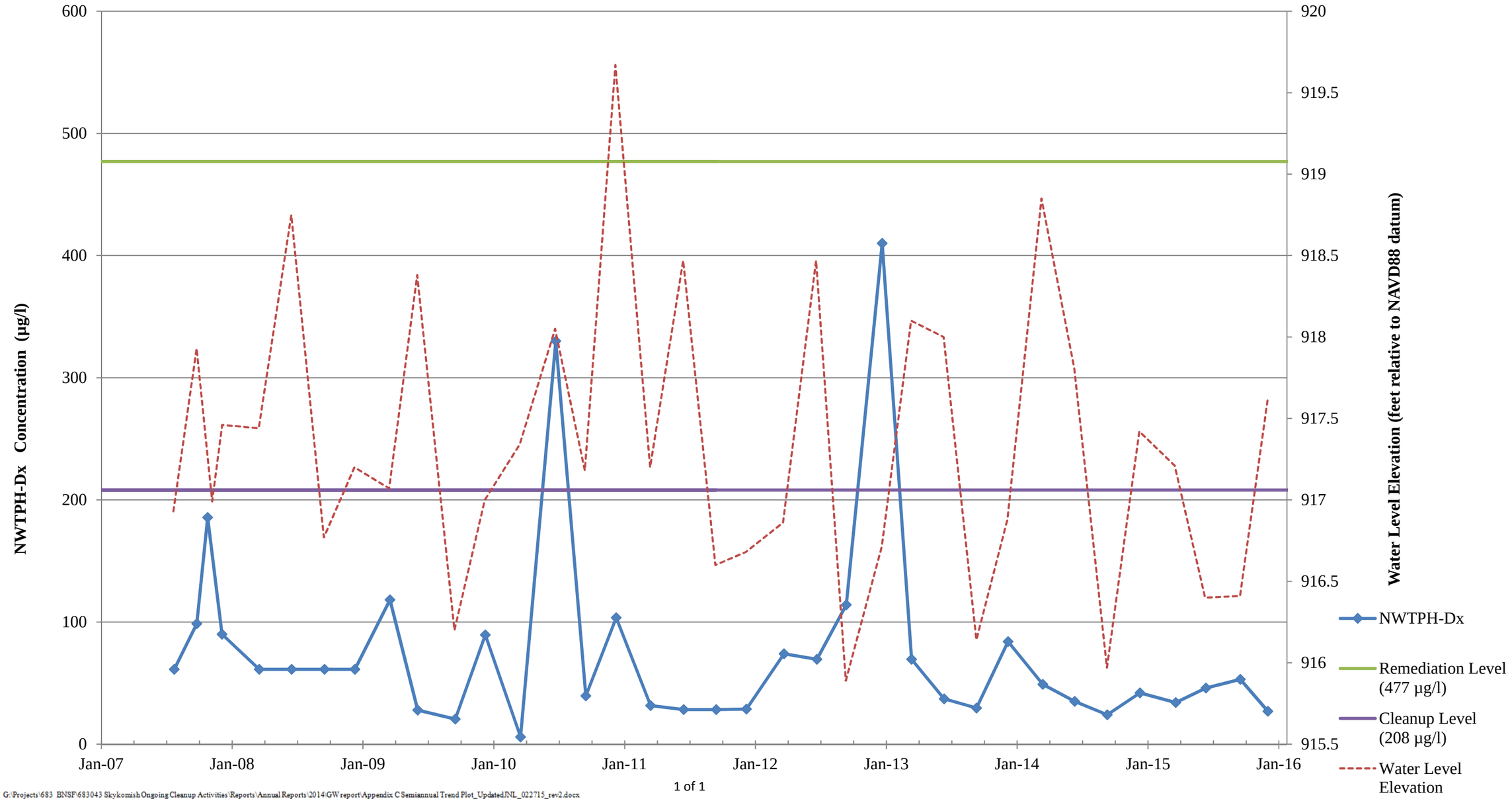
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
5-W-16



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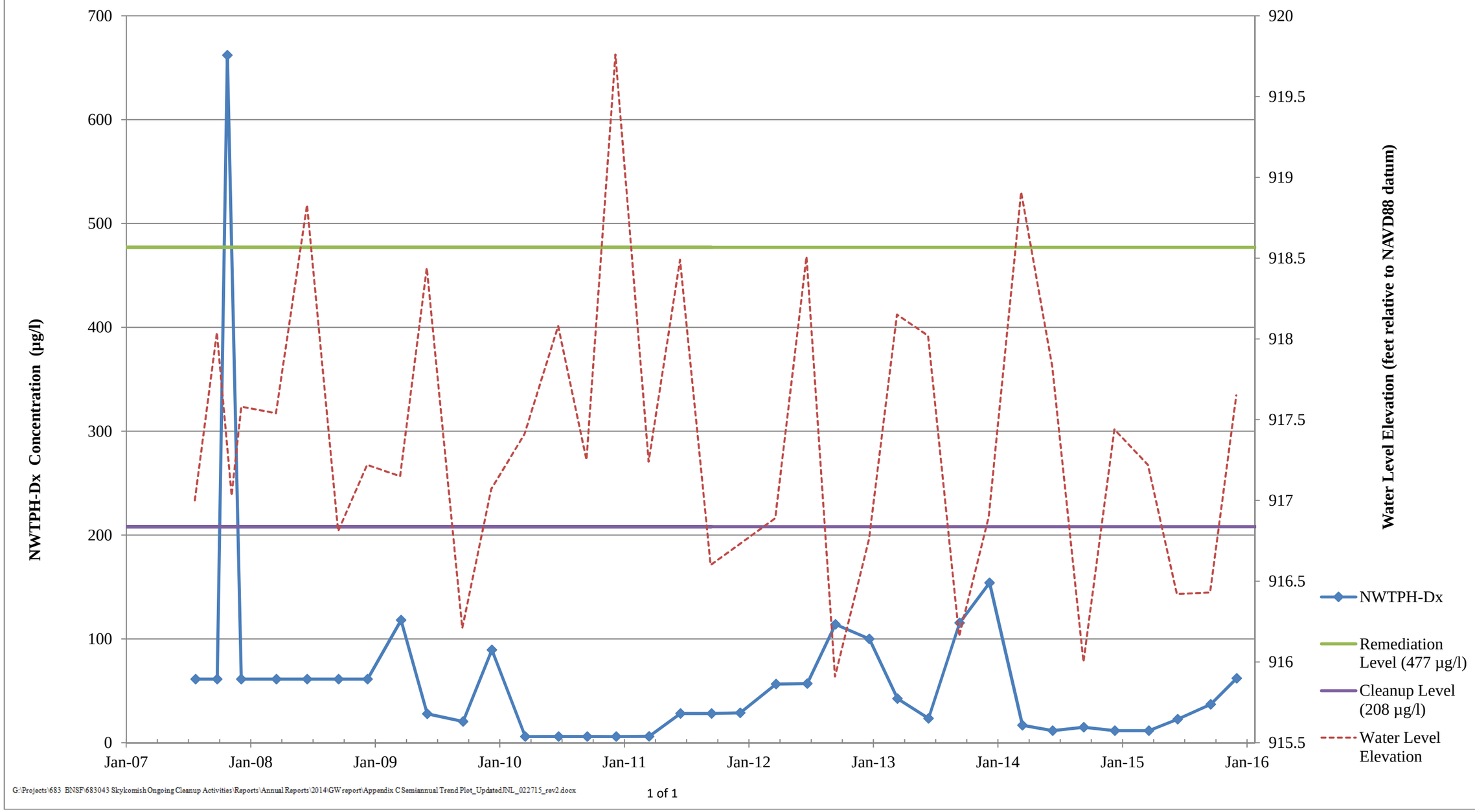
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
5-W-17



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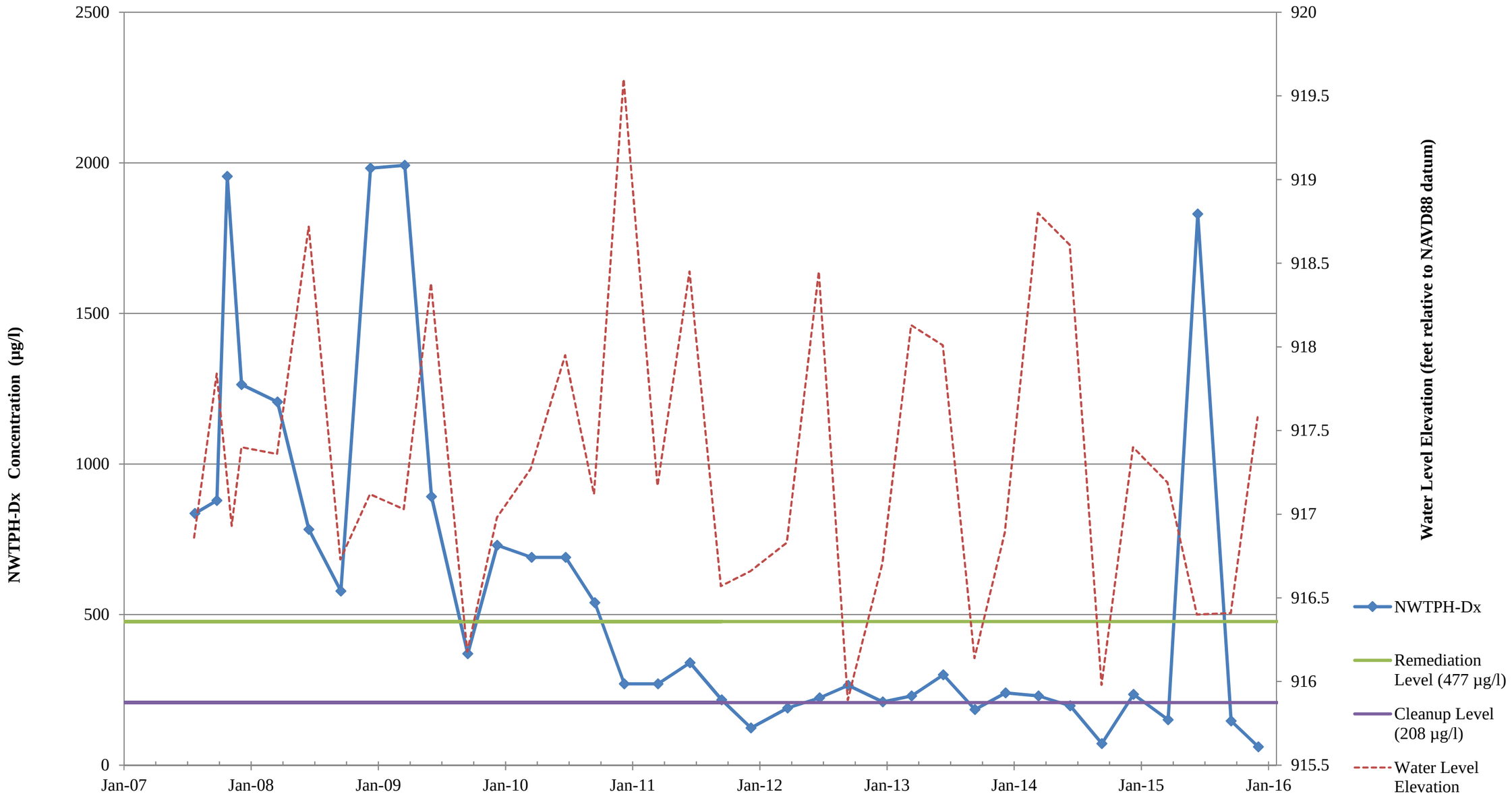

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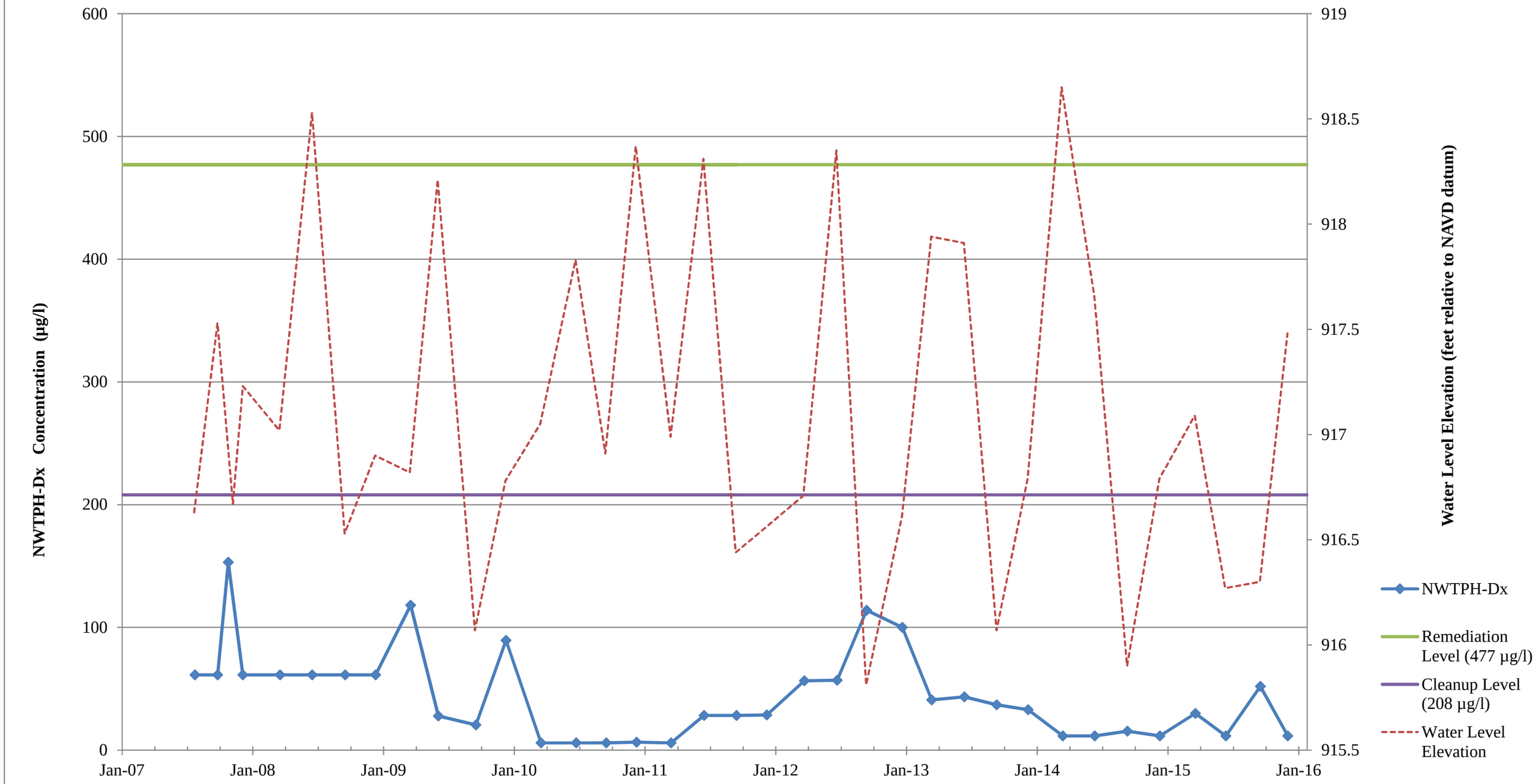
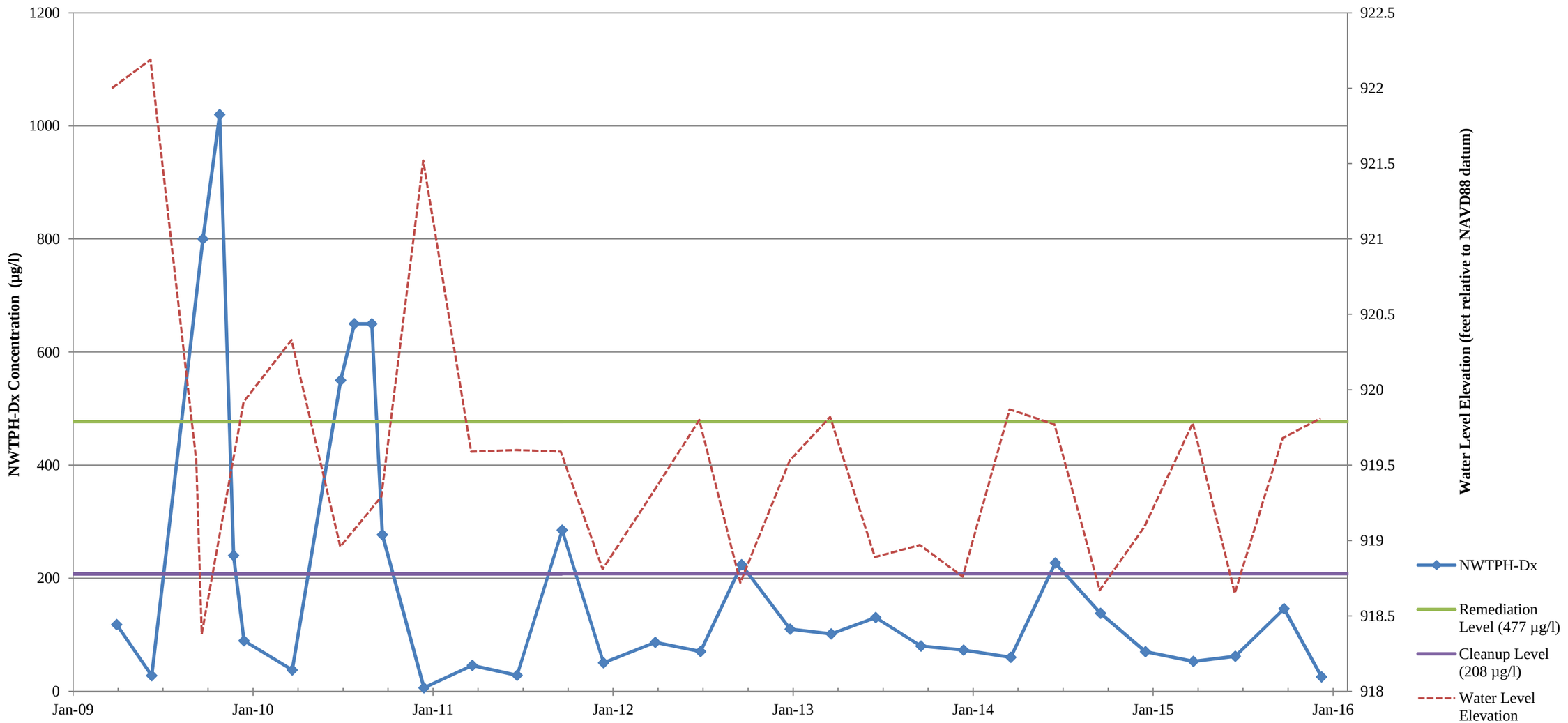
Skykomish, Washington
Farallon PN: 683-043
5-W-19



Down-Gradient of HCC

NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
1B-W-23



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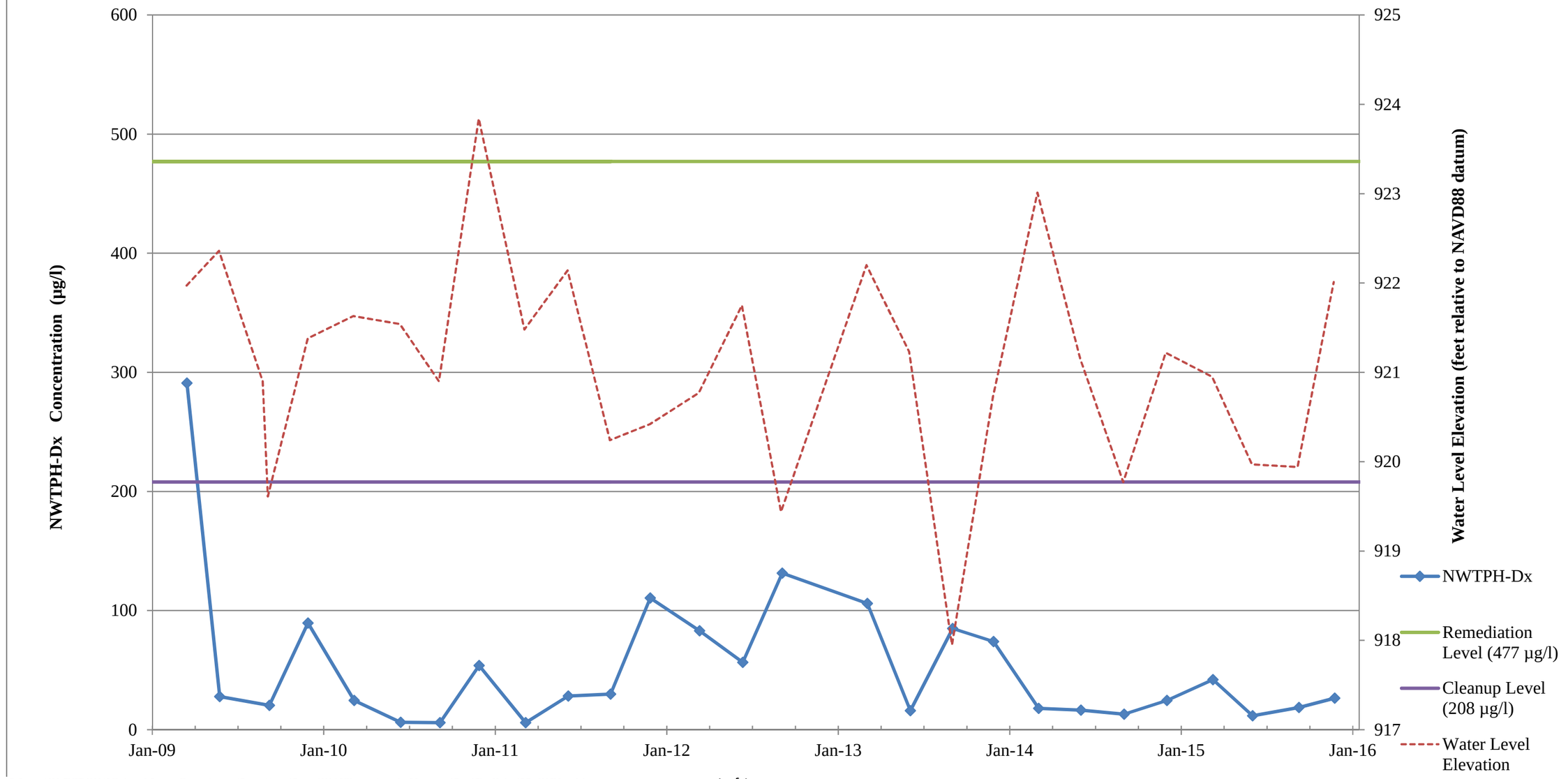
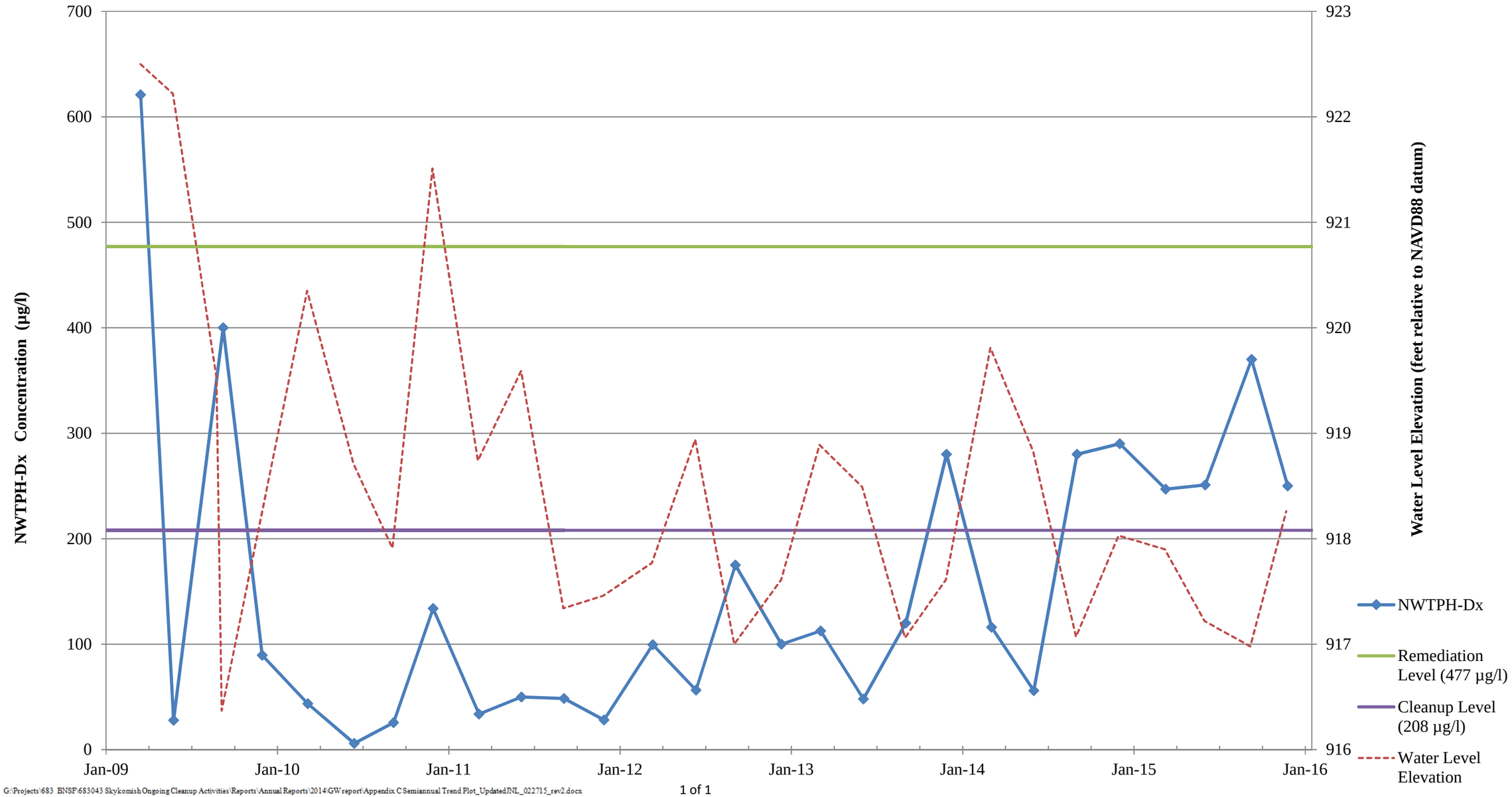
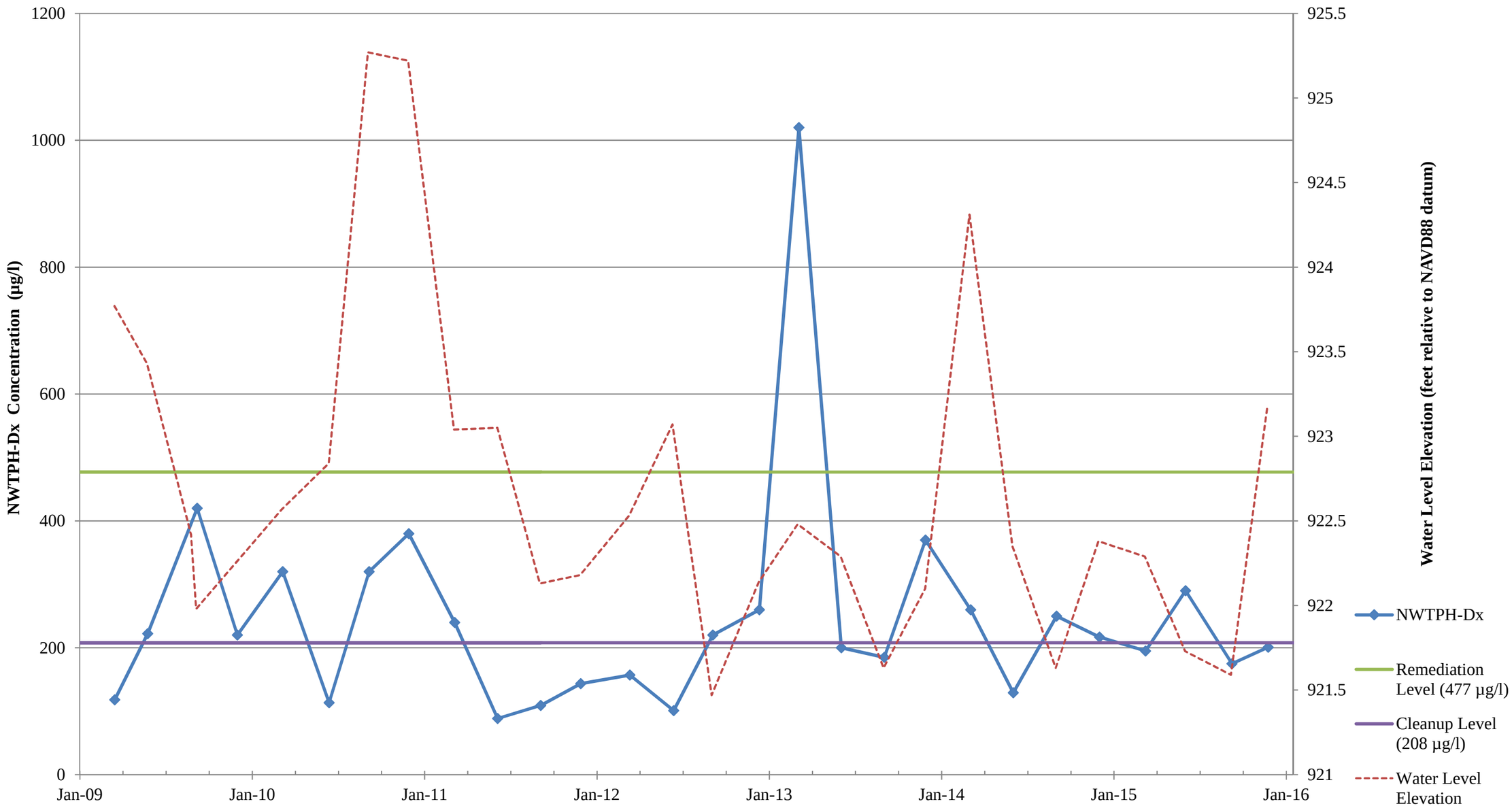
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
2A-W-40



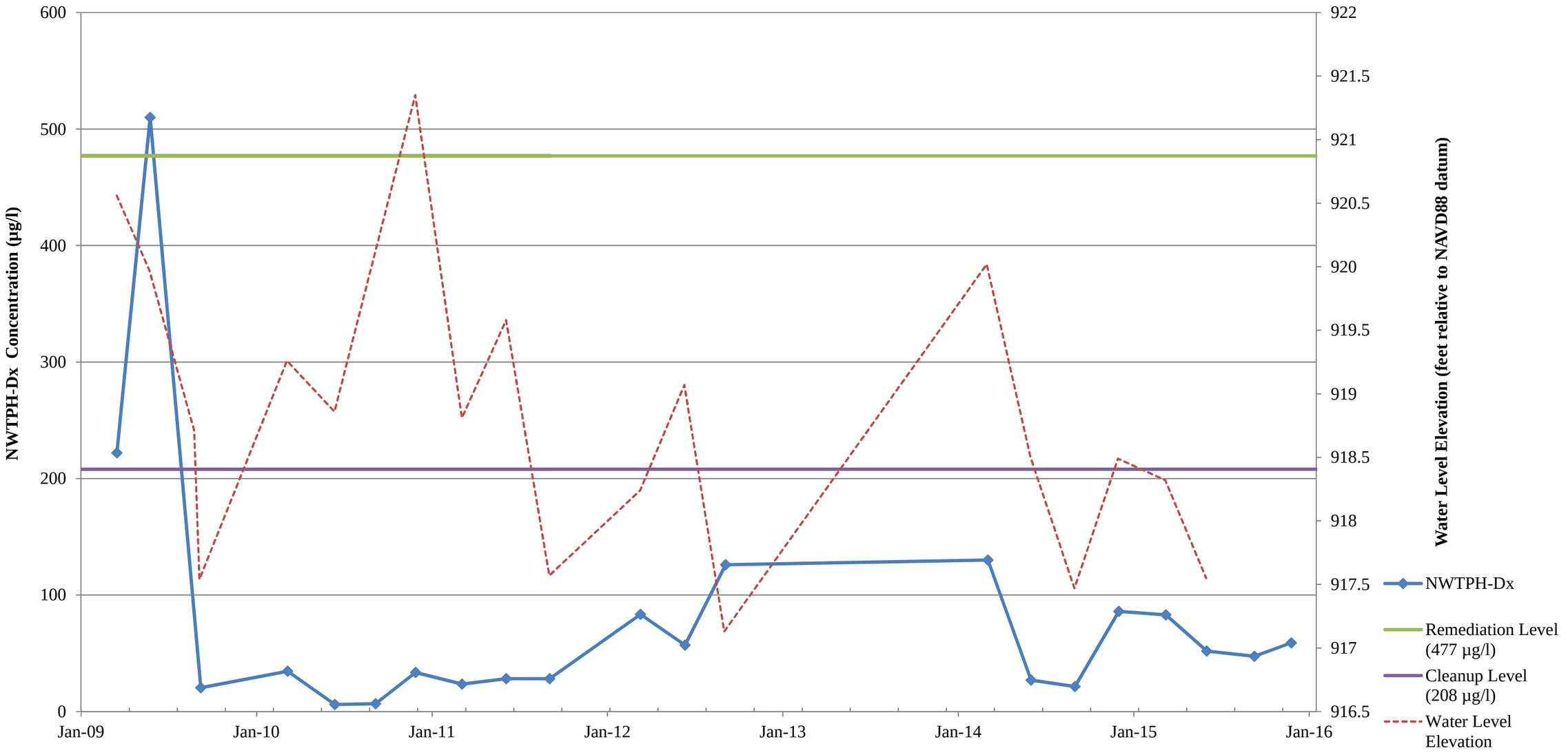
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
2A-W-41



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
2A-W-42



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
5-W-43



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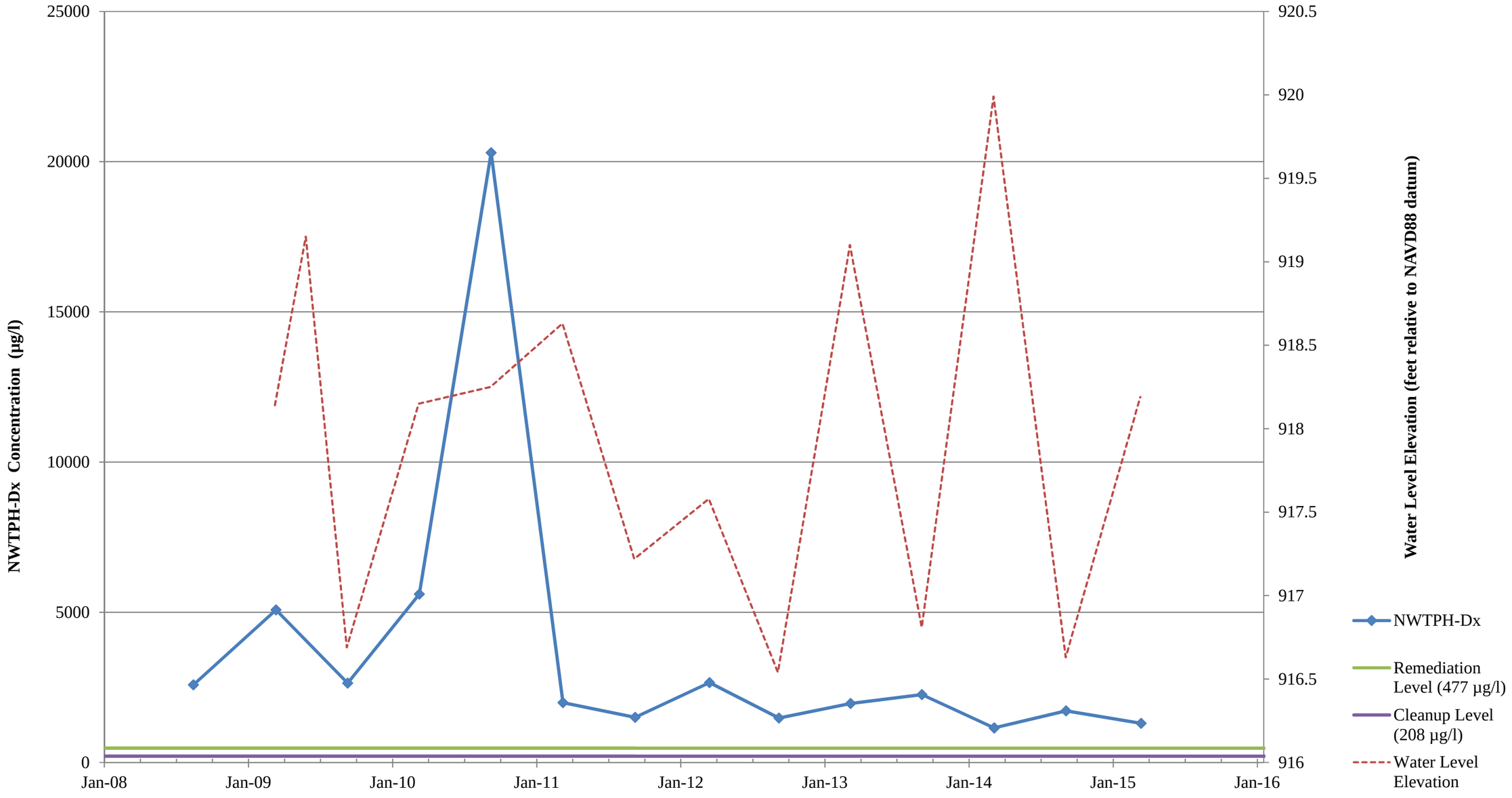
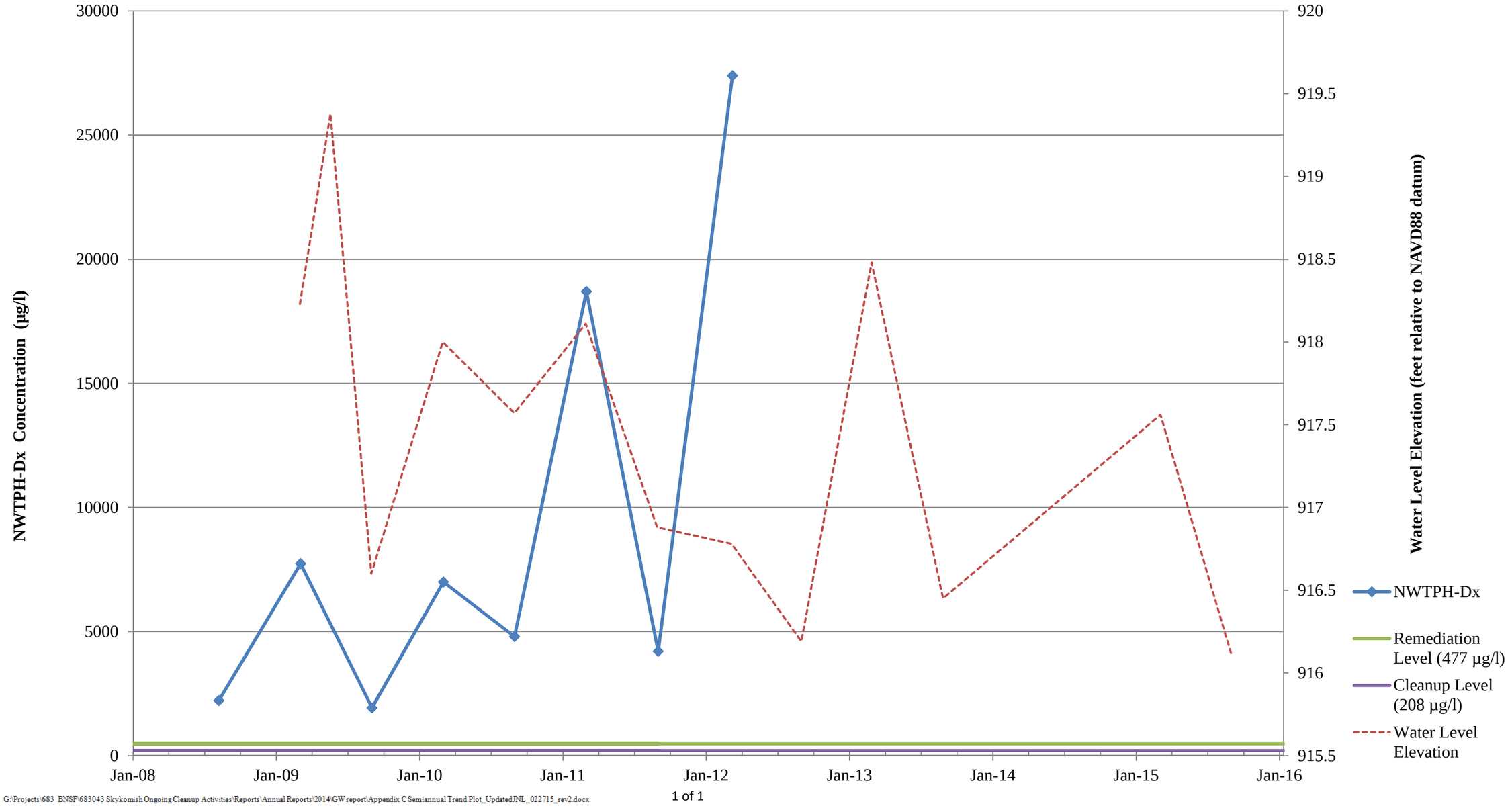
Schoolyard

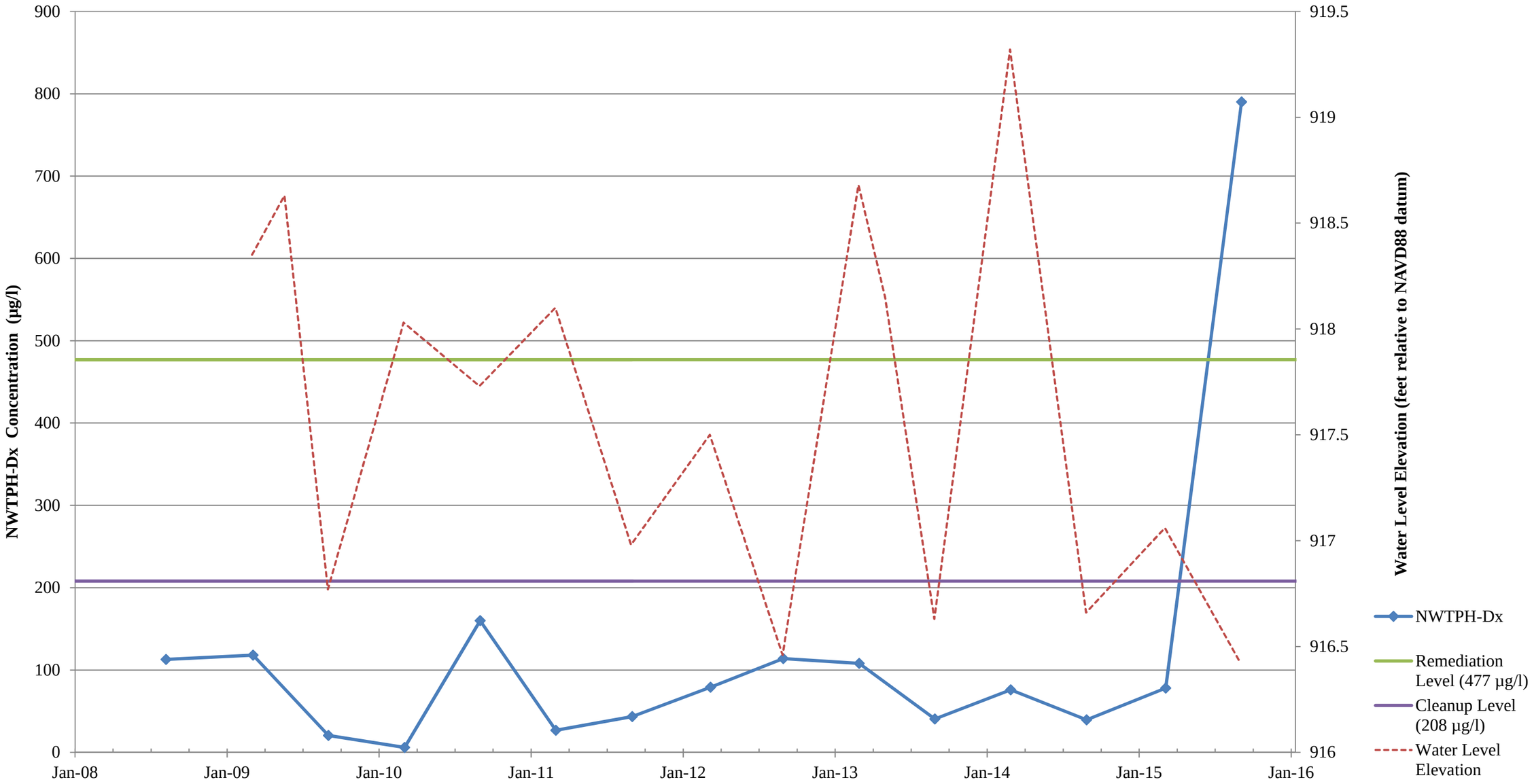
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
5-W-50



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
5-W-51



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
5-W-54



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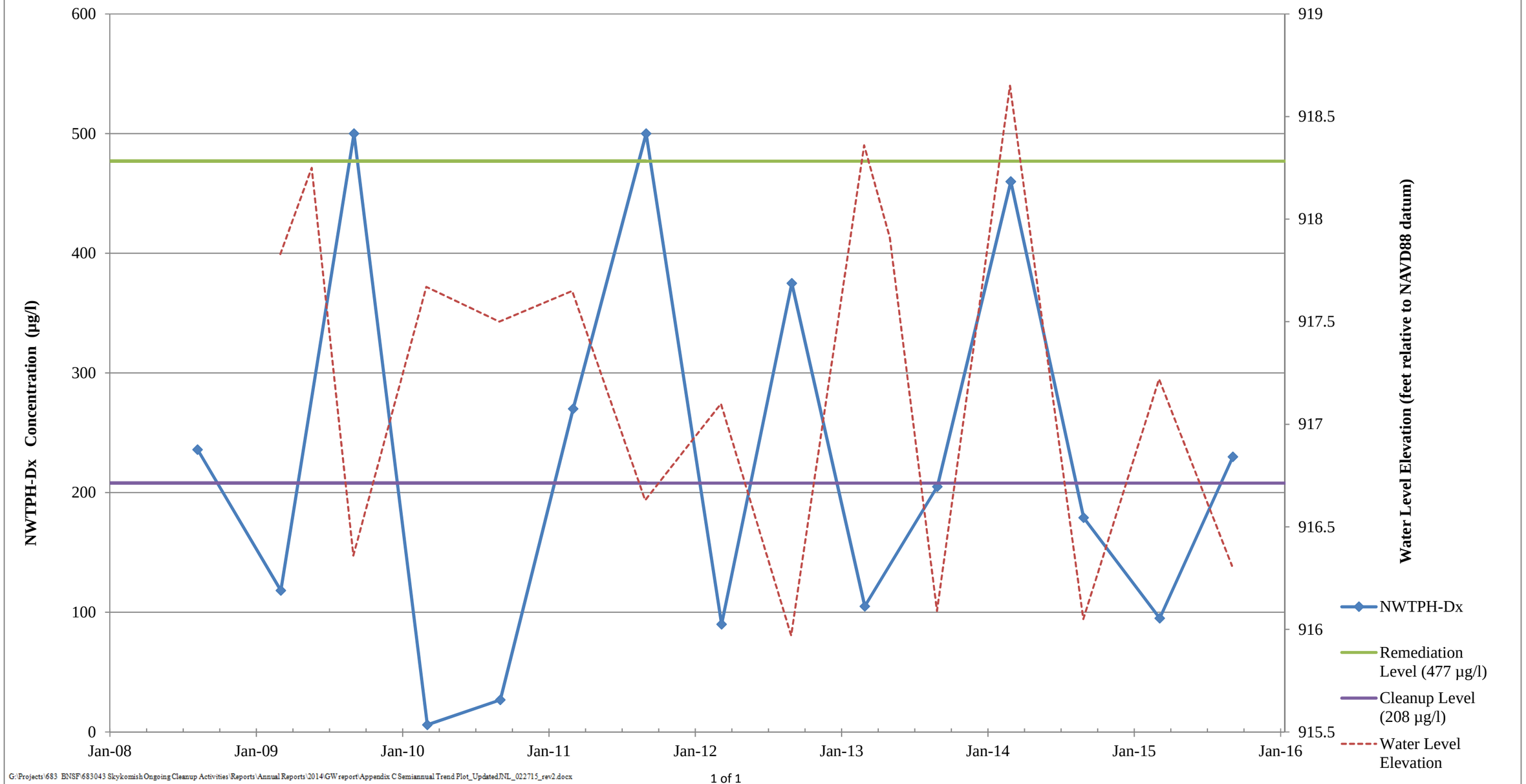
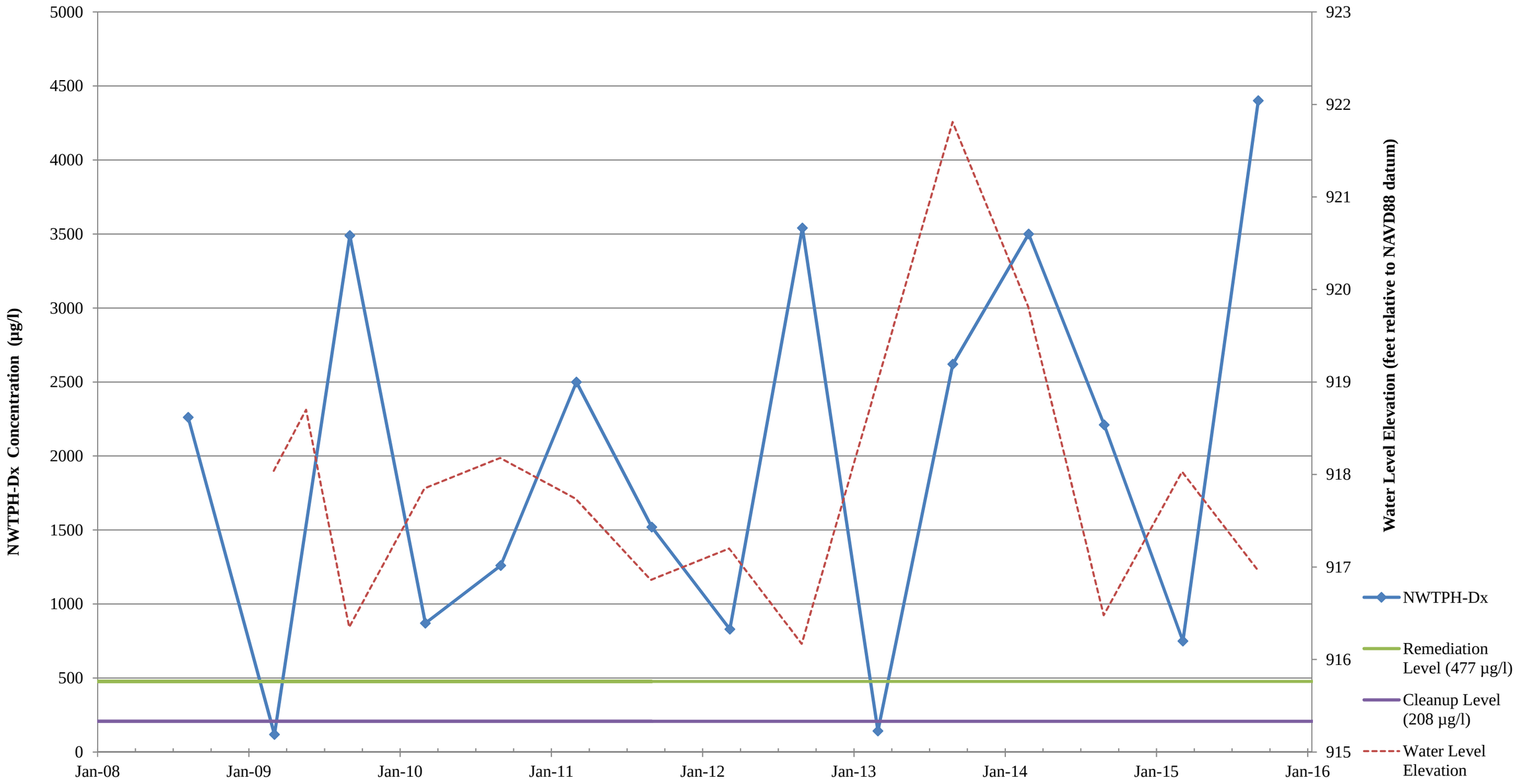
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
5-W-55

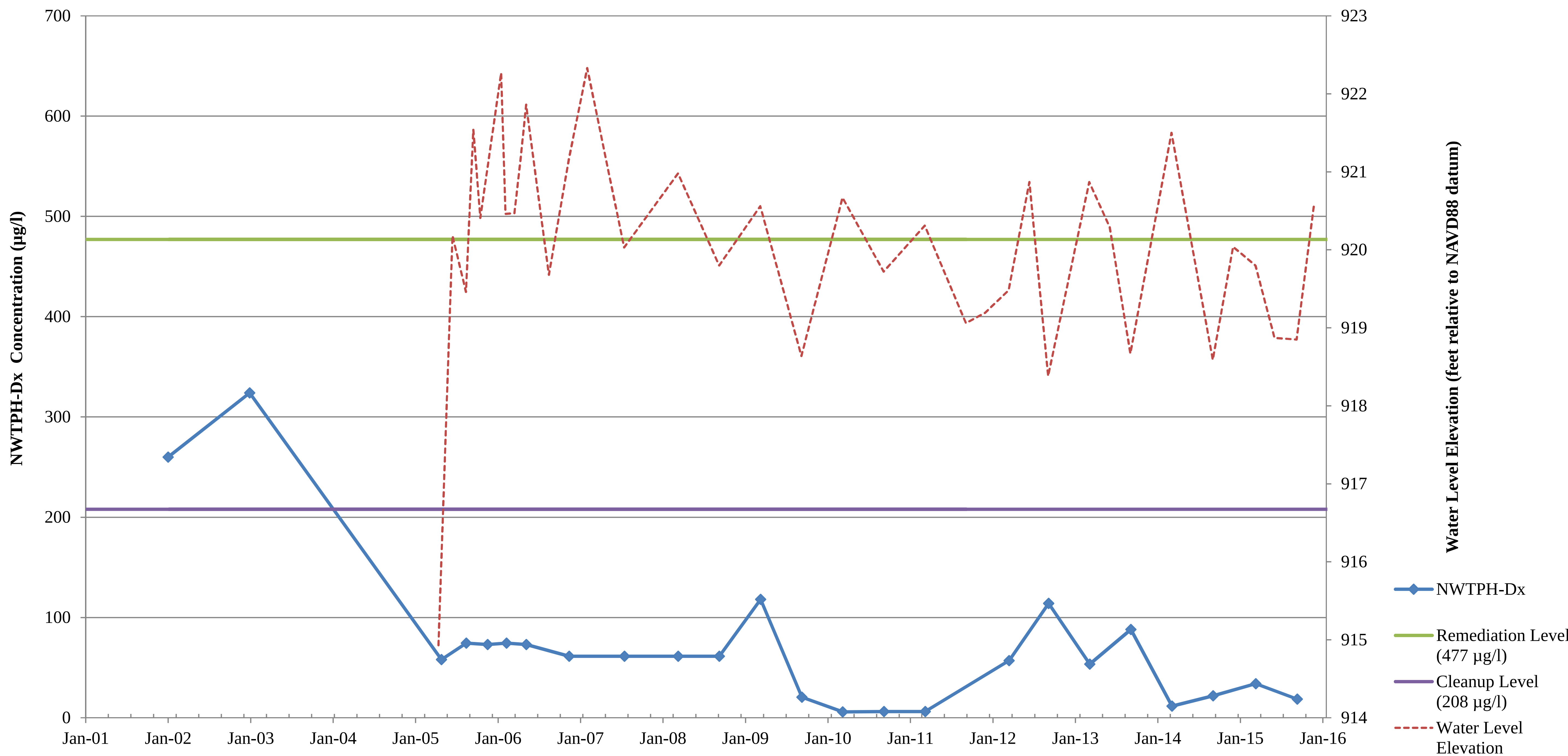


NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
5-W-56

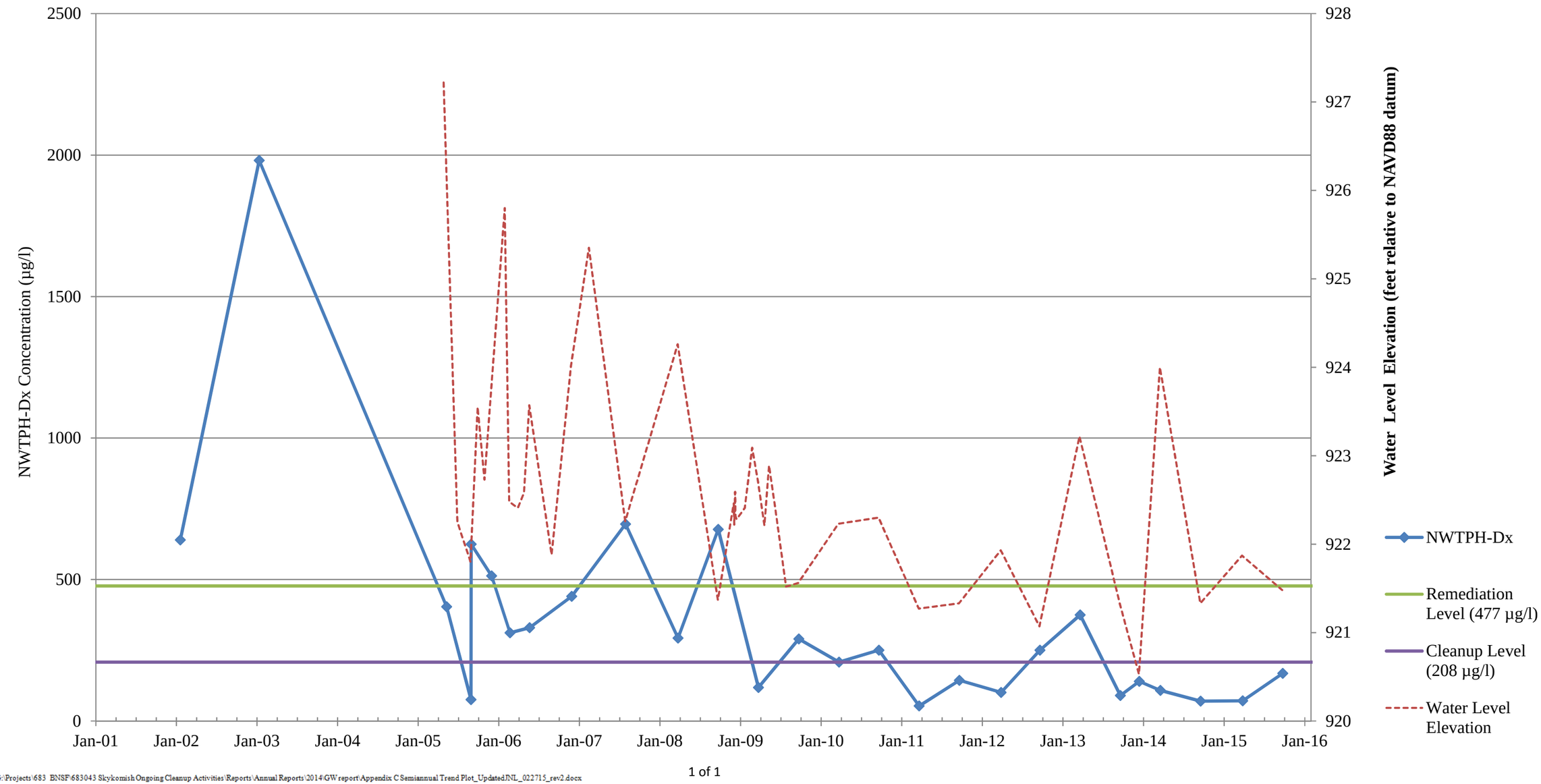


Site-Wide Locations

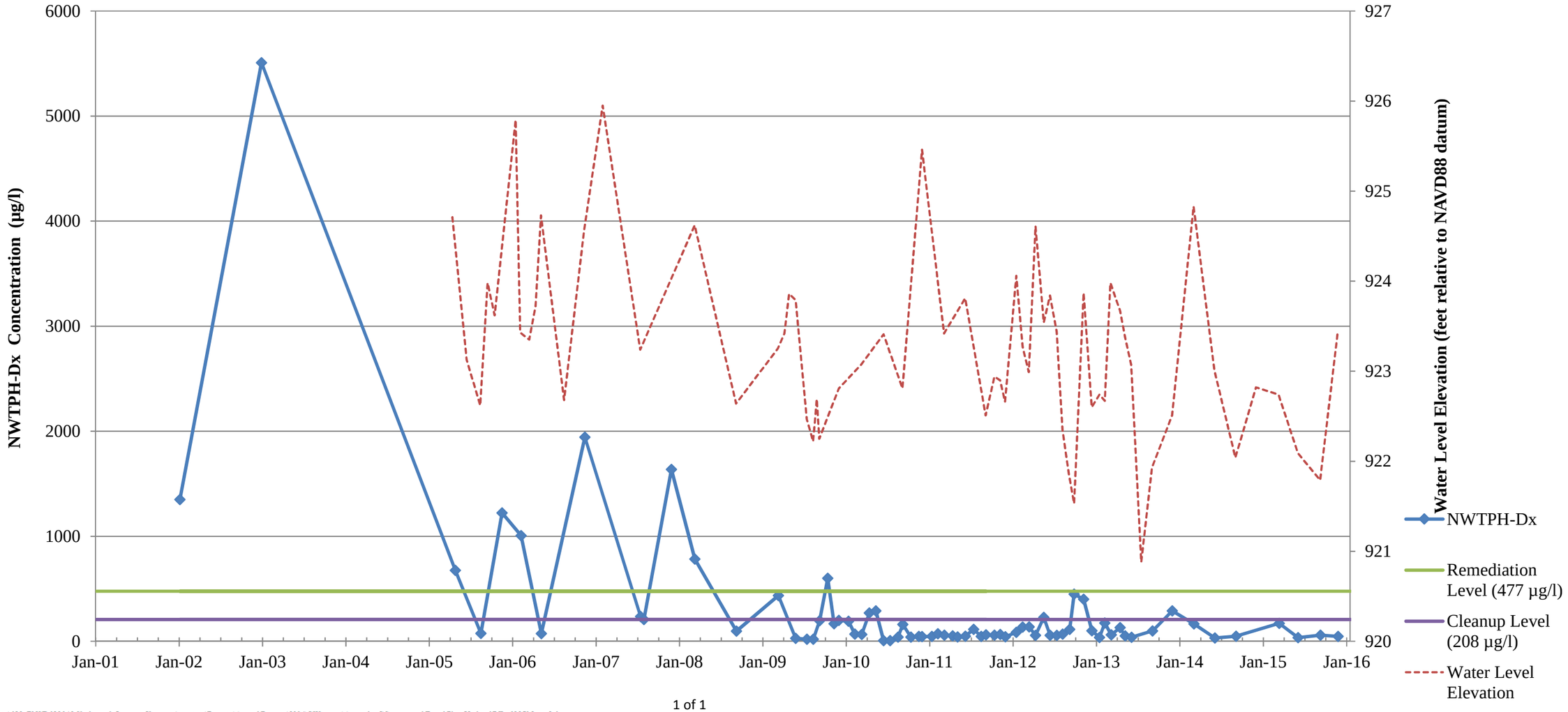
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
1A-W-4



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
1B-W-2



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
1C-W-1



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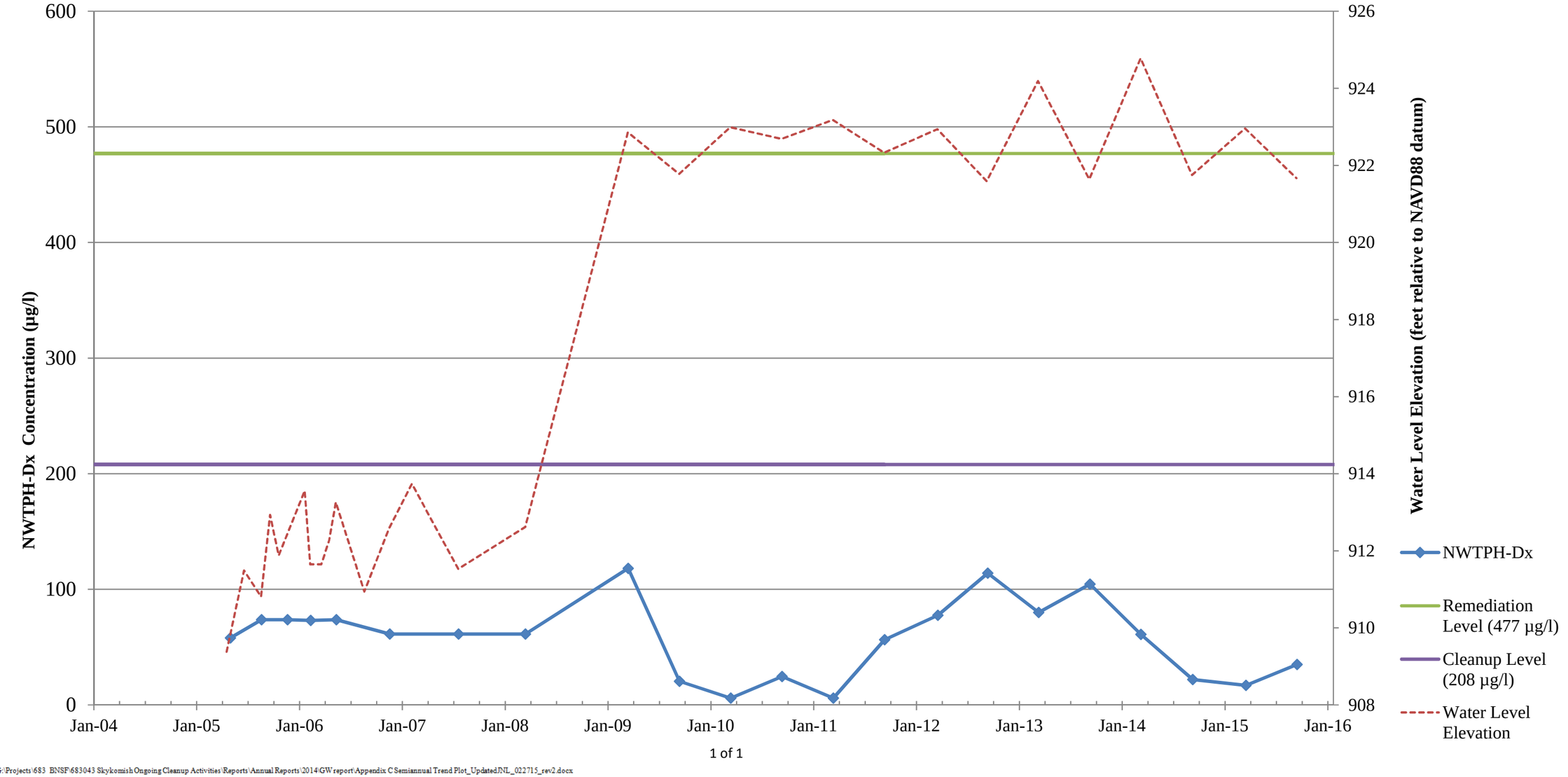
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
1C-W-3



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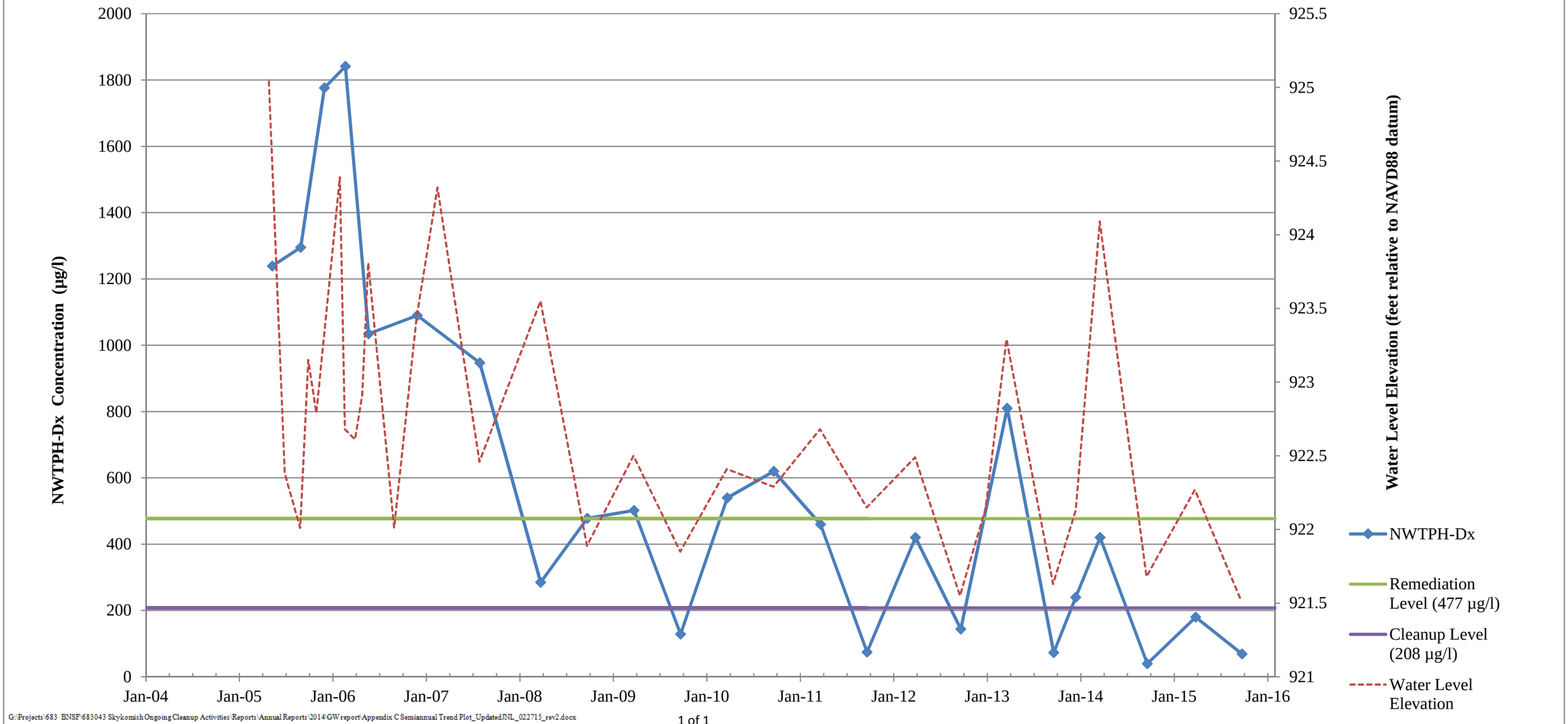
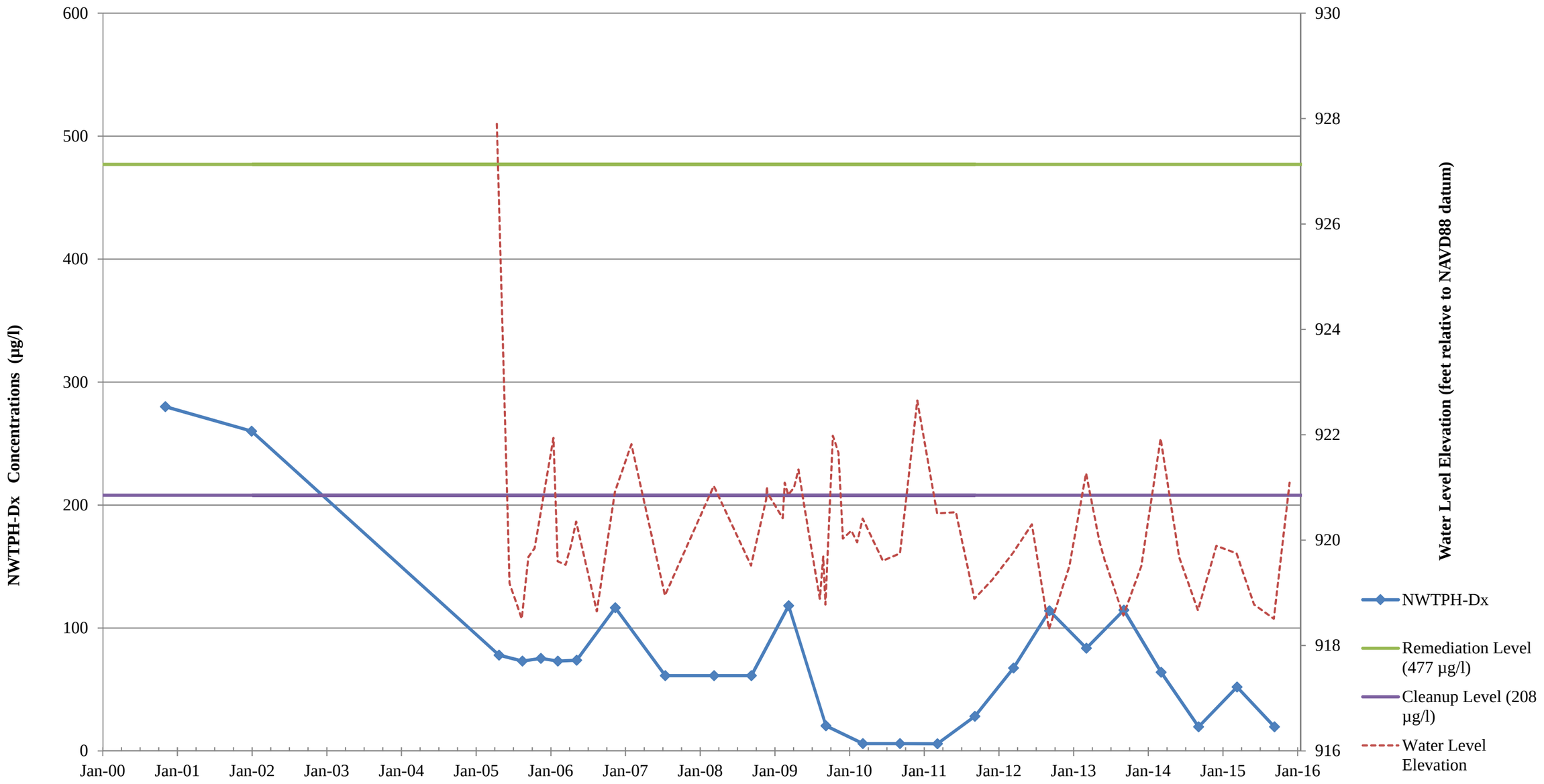
NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
1C-W-4



NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
MW-16



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NWTPH-Dx Trend Plot
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Farallon PN: 683-043
MW-38R