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2012 AS-BUILT COMPLETION REPORT
BNSF FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON
CONSENT DECREE NO. 07-2-33672-9 SEA

Submitted by:

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Farallon PN: 683-043

For:

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April 26, 2013

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APPENDICES

1.0 INTRODUCTION

This 2012 As-Built Completion Report (As-Built Report) was prepared pursuant to the requirements of Section 400 of Chapter 173-340 of the Washington Administrative Code (WAC 173-340-400), and describes the 2012 remediation construction activities completed for the BNSF Railway Company (BNSF) Former Maintenance and Fueling Facility in Skykomish, Washington (herein referred to as the Site). Site remediation activities are being conducted in accordance with the Cleanup Action Plan prepared by the Washington State Department of Ecology (Ecology) (2007) dated October 2007 (CAP). The remediation activities completed at the Site in 2012 were undertaken by BNSF pursuant to Consent Decree No. 07-2-33672-9 SEA between BNSF and Ecology and are part of an integrated and comprehensive remedial action for the Skykomish Site. The overall cleanup approach for the Site is described in the Master Engineering Design Report (RETEC Group, Inc. 2008). The remediation activities described in this As-Built Report were performed during the period from August through early September 2012.

This document summarizes the activities that were completed in 2012. The work was originally described in the 2010 Engineering Design Report (AECOM Environment [AECOM] 2010c) (2010 EDR), the 2010 Compliance Monitoring Plan Update (AECOM 2010a) (2010 CMP), and the 2011 Remediation As-Built Completion Report (AECOM 2012). This document also summarizes the monitoring that was completed in 2012, as well as other relevant construction activities.

The remainder of this As-Built Report is organized into the following sections:

- **Section 2**: **Project Management and Organization.** This section describes the roles and responsibilities of BNSF; Farallon Consulting, L.L.C. (Farallon); and the general contractor, Glacier Environmental Services, Inc. (Glacier), and their subcontractors in the completion of the 2012 remediation activities.
- **Section 3: Site Preparation.** This section describes the general Site preparation activities that were completed prior to the start of construction.
- **Section 4**: **Construction Activities.** This section describes the 2012 remediation construction activities, including activities described in the 2010 EDR, the 2010 Construction Plans and Specifications (AECOM 2010b) (2010 CPS), and the 2011 As-Built Remediation Completion Report (AECOM 2012).
- **Section 5**: **Work to be Completed After 2012.** This section describes the remaining remediation activities described in the planning documents that will begin or be completed after 2012.
- **Section 6: Summary and Conclusions.** This section provides an overview of the 2012 remediation activities at the Site and includes a summary of remaining remediation activities.
- **Section 7: References.** This section lists the documents cited in this report.

2.0 PROJECT MANAGEMENT AND ORGANIZATION

As described in the 2010 CPS, AECOM prepared the cleanup action planning documentation pertaining to the excavation of metals-impacted soil on BNSF property at the Site. In 2012, Farallon was selected by BNSF to provide construction observation services for the load-out of stockpiled soil remaining from 2011 remediation activities, and the excavation and load-out of metals-impacted soil in three discrete areas on BNSF property at the Site. In this capacity, Farallon served as liaison for BNSF with contractors, the Town of Skykomish (Town), and local stakeholders. Ecology retained responsibility for regulatory oversight of the remediation project. Brief descriptions of the roles of each contractor, subcontractor, and consultant involved in the 2012 remediation activities are provided below.

2.1 GENERAL CONTRACTOR

Glacier was selected by BNSF to perform the construction activities. The Glacier scope of services included:

- Performing utility locates;
- Performing erosion-control activities as required;
- Loading existing stockpiles of petroleum-contaminated and metals-impacted soil into railcars for transport to an authorized disposal facility;
- Excavating approximately 750 cubic yards of metals-impacted soil from three areas on the BNSF property as designated in the CAP;
- Loading the excavated soil into railcars for transport and disposal at an authorized waste-handling facility; and
- Backfilling and compacting excavated areas with material stockpiled on the Site to restore the affected areas of the BNSF property to pre-construction lines and grades.

2.2 CONSULTANTS AND CONTRACTORS TO BNSF

The following firms provided services to BNSF and Glacier in support of this project:

- Farallon: Construction observation; compliance monitoring in accordance with the 2010 CMP; and BNSF liaison with contractors, the Town, and local stakeholders;
- TestAmerica Laboratories, Inc.: Chemical analysis of soil samples; and
- Republic Services, Inc.: Impacted soil disposal.

3.0 SITE PREPARATION

The following section describes the general site preparation activities that were completed prior to the start of construction for the BNSF stockpile load-out and excavation activities.

3.1 PRE-CONSTRUCTION MEETINGS

A pre-construction meeting was held in Skykomish prior to mobilization. Meeting attendees included representatives of Glacier and Farallon. The key items discussed in the meeting were:

- Roles and responsibilities;
- Communication protocol;
- Site health and safety;
- Daily health and safety briefings;
- Project contacts;
- Submittal procedures; and
- Anticipated construction schedule.

3.2 TEMPORARY FACILITIES AND CONTROLS

This section describes the temporary facilities and controls employed during the project work to control surface water runoff during construction operations and coordinate truck traffic within the BNSF railyard.

3.2.1 Soil Handling Facility

The Soil Handling Facility is located on BNSF property and is covered by asphalt pavement placed over a high-density polyethylene (HDPE) liner (Figure 1). Approximately 1,500 cubic yards of petroleum-contaminated soil and 1,300 cubic yards of metals-impacted soil had been previously stockpiled at this location and was covered with a sheet plastic liner at the beginning of 2012 work. The stockpiled soil in the Soil Handling Facility on BNSF property was material remaining from excavation work performed at the Site during the 2011 construction season.

Soil stockpiled in the Soil Handling Facility during the 2012 work was covered with sheet plastic to prevent rainfall from coming into contact with impacted soils and to prevent wind erosion. The sheet plastic liner material that had been used to cover stockpiles was removed and disposed of with the impacted soil. A portion of the Soil Handling Facility asphalt and HDPE liner were removed to enable metals-impacted soil proximate to this location to be excavated.

3.2.2 Temporary Erosion and Sediment Controls

The existing stockpiles and those resulting from the BNSF property shallow metals excavation effort were covered with sheet plastic liner material to protect against rain and wind erosion. Each of the metals-impacted soil excavations on BNSF property was backfilled by Glacier the

same day the material was excavated so no erosion would occur. No precipitation events occurred during the 2012 excavation activities.

3.2.3 Railroad Flagger Traffic Control

Due to the proximity of construction to mainline railroad tracks, a railroad flagger was required to coordinate truck traffic within the BNSF property with BNSF personnel. The BNSF flagger alerted construction personnel of train traffic and when it was necessary to temporarily stop construction activities.

4.0 CONSTRUCTION ACTIVITIES

The 2012 remediation scope of work included the following activities that were described in the 2010 EDR and 2010 CPS:

- Load-out of impacted soil stockpiles remaining in the Soil Handling Facility from excavation performed during 2011; and
- Excavation and load-out of metals-impacted soil from three designated areas on BNSF property (Figure 1).

Daily field reports documenting this work are provided in Appendix A. Photographs depicting the construction activities are included in Appendix B.

The following subsections describe the 2012 construction activities in detail.

4.1 STOCKPILED SOILS LOAD-OUT AND DISPOSAL

Due to limitations in railcar availability, approximately 1,300 cubic yards of metals-impacted soil and approximately 1,500 cubic yards of petroleum- contaminated soil was not transported off the Site for disposal during the 2011 construction season. This soil remained in covered stockpiles within containment areas in the Soil Handling Facility.

The first work performed in 2012 was the load-out of the stockpiled material for transport off the Site to the Republic Services, Inc. Subtitle D waste disposal facility in Roosevelt, Washington. The soil was loaded into railcars using a front-end loader with an on-board scale. The front-end loader on-board scale enabled the railcar capacity to be maximized without exceeding load limits.

A total of 2,580 tons of petroleum-contaminated soil and 2,228 tons of metals-impacted soil that remained from the 2011 remediation activities was loaded and transported off the Site for disposal.

4.2 METALS-IMPACTED SOIL EXCAVATIONS

As required by the CAP, areas within the BNSF property impacted by lead and arsenic at concentrations greater than the cleanup levels of 250 and 20 milligrams per kilogram (mg/kg), respectively, were to be excavated to a depth of 2 feet below ground surface (bgs) and backfilled with clean fill. The 2011 Remediation As-Built Completion Report (AECOM 2012) identified three areas that still required excavation (Figures 2 through 4):

- The West End of the BNSF Railyard Area;
- The BNSF Operations Trailer Area; and
- The Soil Stockpile Area.

These areas and excavation control points are depicted on Figure 1 and have been designated as Areas A, B, and C, respectively. Excavation of these areas was completed sequentially to facilitate excavation, stockpiling, and backfilling while minimizing the area of open excavation.

Prior to excavation, the locations of each excavation area were staked by completing a Global Positioning System survey using a survey-quality Trimble instrument. Excavation depths were controlled in the field by manually measuring the depth of cut during the excavation. Excavated soil was temporarily stockpiled in the Soil Handling Facility and covered with sheet plastic to prevent erosion until the material could be loaded and transported for disposal.

4.3 EXCAVATION AREA SOIL SAMPLING AND ANALYSIS

In accordance with the 2010 CMP, soil samples were collected at a depth of 1 foot bgs from the excavation sidewalls at approximately 20-foot intervals to document conditions of the final limits of the prescribed excavation areas. The sample locations for the three discrete excavation areas are depicted on Figures 2 through 4. A total of 1,297 tons of metals-impacted soil was removed from the three excavation areas, loaded onto railcars, and transported to the Republic Services, Inc. Subtitle D waste disposal facility in Roosevelt, Washington.

Farallon reviewed the resultant analytical data to ensure that the quality assurance/quality control criteria established in the 2010 CMP were satisfied. The laboratory analytical reports for the samples collected from the final limits of the excavation areas are included in Appendix C.

4.4 STOCKPILED SOIL HANDLING AND DISPOSAL

The impacted soil stockpiled in the Soil Handling Facility was loaded onto railcars and transported off the Site to the Republic Services, Inc. Subtitle D waste disposal facility in Roosevelt, Washington. The metals-impacted soil was loaded into the railcars using a front-end loader with an on-board scale to maximize the quantity of soil loaded into each railcar without exceeding load limits. A total of 3,524 tons of metals-impacted soil and 2,580 tons of petroleum-contaminated soil was transported to the disposal facility.

4.5 BACKFILL

The BNSF property metals-excavation areas were backfilled with 1.25-inch crushed rock from available backfill material stockpiles on the Site. The backfill material had been delivered and stockpiled at the Site during the 2011 construction season. The backfill was compacted using vibratory equipment to an unyielding condition acceptable to BNSF.

5.0 WORK TO BE COMPLETED AFTER 2012

This section describes the remediation activities that were identified in the 2010 EDR and 2010 CPS, but were either not completed during the 2012 construction season or re-scheduled for future years. Subsequent as-built report documentation will describe completion of these activities.

5.1 HYDRAULIC CONTROL AND CONTAINMENT SYSTEM OPERATION

The Hydraulic Control and Containment (HCC) System is operated on a 24-hour basis, 7 days a week in accordance with the *Operations and Maintenance Manual for Hydraulic Control and Containment System* (AECOM 2011). HCC System operations in 2013 will cover the period from January 1 through December 31, 2013. The 2013 HCC System Operations Report will be completed in 2014.

5.2 AIR SPARGING SYSTEM OPERATION

The air sparging system is operated on a 24-hour basis, 7 days a week in accordance with the *Operations and Maintenance Manual for Air Sparge System-Final* (AECOM 2009). BNSF is currently evaluating the performance and status of the air sparging system to determine whether there is a need for continued operation.

5.3 SCHOOLYARD EXCAVATION

During the 2013 construction season, petroleum-contaminated soil and metals-impacted soil will be excavated from the Skykomish Schoolyard, pending access-agreement negotiations with the School District, and Ecology review and approval of plans and specifications. This phase of work will include connecting the School to the Town sewer system, and installing an irrigation system for the Schoolyard. The Schoolyard excavation design package is currently under review by Ecology and the School District. The 2013 remediation schedule can be developed once an access agreement has been signed.

5.4 CLEANUP BENEATH THE SCHOOL BUILDING

Remediation of petroleum-contaminated soil beneath the Skykomish School building is planned to begin in 2014 following the installation of the hot water flushing remediation system. Access-agreement negotiations and development of plans and specifications are ongoing with the School District. The final remediation schedule can be developed once an access agreement has been signed.

5.5 UTILITY AND TOWN RESTORATION

Final Town right-of-way restoration was completed east of the east side of Sixth Street during the 2011 construction season. Permanent storm sewer, water, electrical utilities, permanent roadways, sidewalks, and landscaping were installed east of Sixth Street. Final restoration from Sixth Street westward is anticipated to be completed after the remedial work has been completed at the Skykomish School.

6.0 SUMMARY AND CONCLUSIONS

During 2012, soil excavation, loading, transport, and disposal remediation activities occurred at the BNSF Former Maintenance and Fueling Facility in Skykomish, Washington on behalf of BNSF. The quantities of material removed from the Site and disposed of during the 2012 Skykomish remediation activities included the following:

- 1,297 tons of metals-impacted soil was excavated from three discrete areas on BNSF property and transported to the Republic Services, Inc. Subtitle D landfill in Roosevelt, Washington for disposal.
- 3,524 tons of metals-impacted soil that had been stockpiled at the Soil Handling Facility was transported to the Republic Services, Inc. Subtitle D landfill in Roosevelt, Washington for disposal.
- 2,580 tons of petroleum-contaminated soil that had been stockpiled at the Soil Handling Facility was transported to the Republic Services, Inc. Subtitle D landfill in Roosevelt, Washington for disposal.

Petroleum- and metals-impacted soil stockpiled from the 2011 remediation construction activities at the Site was loaded out from the Soil Handling Facility. No stockpiles of impacted soil remain on the Site at this time.

The remaining areas of metals-impacted soil on BNSF property described in the 2010 CPS were excavated and loaded out for disposal. The only remaining soil requiring excavation and disposal off the Site as described in the 2010 CPS is located in the Skykomish Schoolyard, and likely will be excavated during the 2013 construction season.

Both the HCC system and the air sparging system were operated throughout 2012. The HCC system will continue to be operated in 2013. The air sparging system is continuing operation at this time. However, BNSF is currently evaluating the performance and status of the system to assess the need for continued operation.

The remaining portion of the work described in the 2010 CPS is anticipated to be completed in 2013 and 2014, subject to access negotiations. This work includes excavating impacted soil located in the Skykomish Schoolyard, remediating impacted soil beneath the Skykomish School building, and installing the remaining utilities within and west of Sixth Street. The Skykomish Schoolyard excavation is anticipated to occur during the 2013 construction season, pending access-agreement negotiations.

7.0 REFERENCES

AECOM Environment (AECOM). 2009. *Operations and Maintenance Manual for Air Sparge System-Final*. Prepared for BNSF Railway Company. December 30.

———. 2010a. *2010 Compliance Monitoring Plan Update (DRAFT), BNSF Former Maintenance and Fueling Facility, Skykomish, Washington.* Prepared for the BNSF Railway Company. February.

———. 2010b. *2010 Construction Plans and Specifications, BNSF Former Maintenance and Fueling Facility, Skykomish, Washington.* Prepared for the BNSF Railway Company. March 29.

———. 2010c. *2010 Engineering Design Report, BNSF Former Maintenance and Fueling Facility, Skykomish, Washington.* Prepared for the BNSF Railway Company. May 3.

———. 2011. *Operations and Maintenance Manual for Hydraulic Control and Containment System*. Prepared for BNSF Railway Company. April 8.

———. 2012. *2011 Skykomish Remediation As-Built Completion Report. BNSF Former Maintenance and Fueling Facility, Skykomish, Washington*. Prepared for the BNSF Railway Company. August.

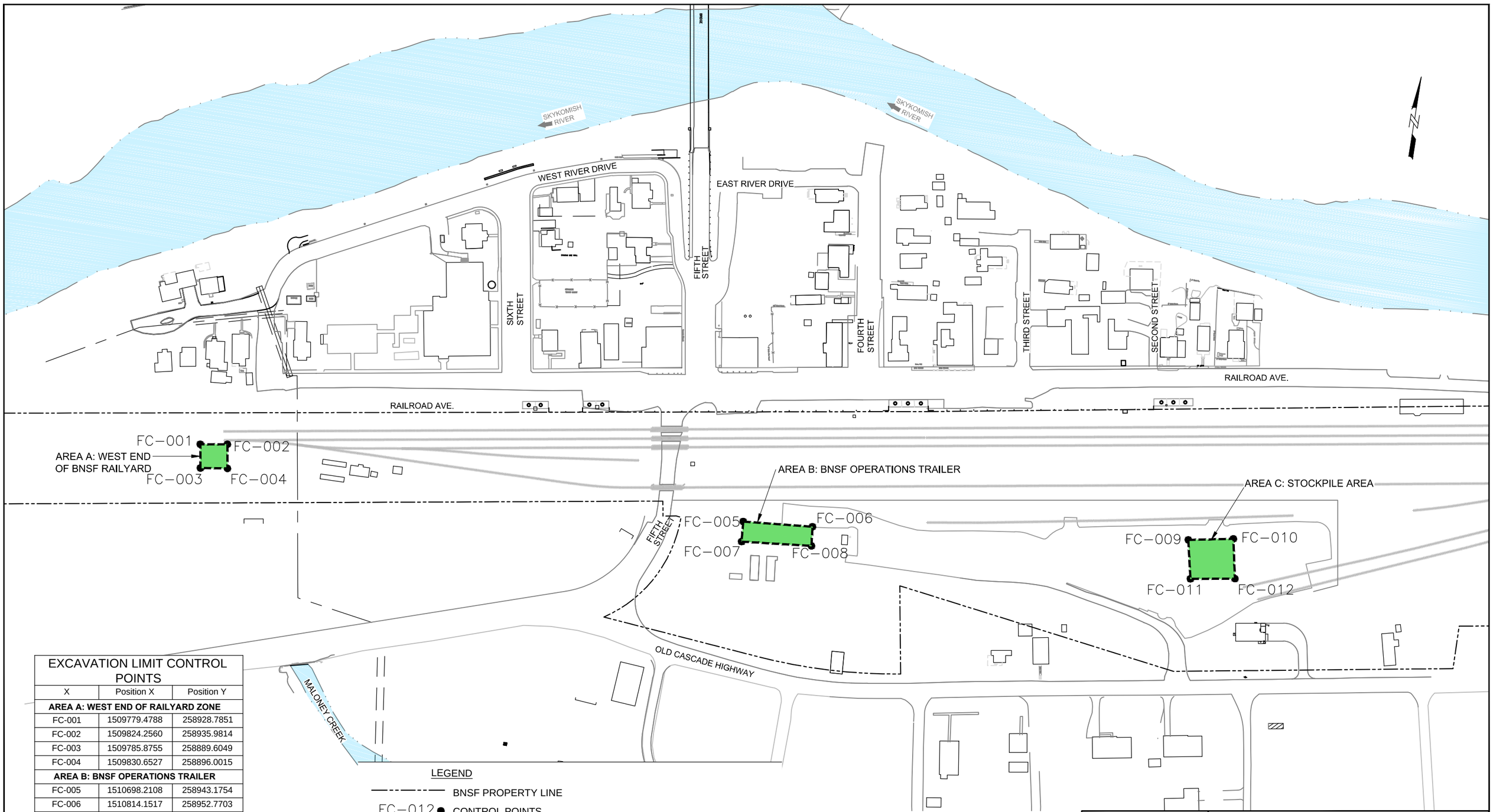
RETEC Group, Inc. 2008. *Master Engineering Design Report; BNSF Former Maintenance and Fueling Facility, Skykomish, Washington*. Prepared for the BNSF Railway Company. January.

Washington State Department of Ecology (Ecology). 2007. *Cleanup Action Plan for BNSF Former Maintenance and Fueling Facility, Skykomish, Washington*. Prepared for BNSF Railway Company. October.

FIGURES

2012 AS-BUILT COMPLETION REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043



EXCAVATION LIMIT CONTROL POINTS		
X	Position X	Position Y
AREA A: WEST END OF RAILYARD ZONE		
FC-001	1509779.4788	258928.7851
FC-002	1509824.2560	258935.9814
FC-003	1509785.8755	258889.6049
FC-004	1509830.6527	258896.0015
AREA B: BNSF OPERATIONS TRAILER		
FC-005	1510698.2108	258943.1754
FC-006	1510814.1517	258952.7703
FC-007	1510700.6095	258909.5924
FC-008	1510817.3501	258920.7864
AREA C: STOCKPILE AREA		
FC-009	1511439.4332	259029.5298
FC-010	1511513.7953	259043.1228
FC-011	1511453.0263	258965.5621
FC-012	1511526.5888	258977.5559

LEGEND

BNSF PROPERTY LINE

FC-012 CONTROL POINTS

METALS EXCAVATION AREA

HORIZONTAL AND VERTICAL CONTROL

1. HORIZONTAL DATUM: NAD 83/91
2. VERTICAL DATUM: NAVD 88
3. BENCHMARK: KING COUNTY MONUMENT STAMPED "1995 GPS 8823" WITH A PUBLISHED ELEVATION OF 931.73. (CP #117 ON C-100.)

100 0 200

SCALE IN FEET

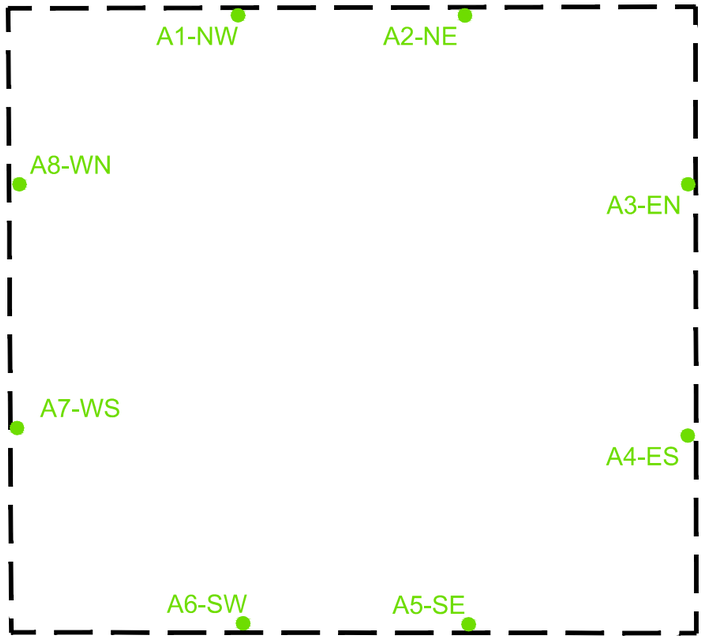
FARALLON CONSULTING
975 5th Avenue Northwest
Issaquah, WA 98027

FIGURE 1

BNSF PROPERTY REMEDIATION
METALS EXCAVATION AREAS
BNSF FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

FARALLON PN: 683-043

Drawn By: DEW	Checked By: RM	Date: 3/20/13	Disk Reference: 683043



LEGEND

EXTENT OF SOIL EXCAVATION

A5-SE EXCAVATION SAMPLE LOCATION

N

5 0 10

SCALE IN FEET

FARALLON CONSULTING
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Issaquah, WA 98027

FIGURE 2

AREA A: WEST END OF BNSF RAILYARD
FINAL EXCAVATION LIMITS AND
SAMPLING LOCATIONS
BNSF FORMER MAINTENANCE AND
FUELING FACILITY
SKYKOMISH, WASHINGTON
FARALLON PN: 683-043

Drawn By: DEW	Checked By: RM	Date: 3/20/13	Disk Reference: 683043

B1-NW
B4-N
B5-N
B6-NE
B1-WS
B7-EN
B1-WS
B8-ES
B12-SW
B11-5
B10-S
B9-SE

LEGEND

EXTENT OF SOIL EXCAVATION

B3-NW EXCAVATION SAMPLE LOCATION

N

5 0 10

SCALE IN FEET

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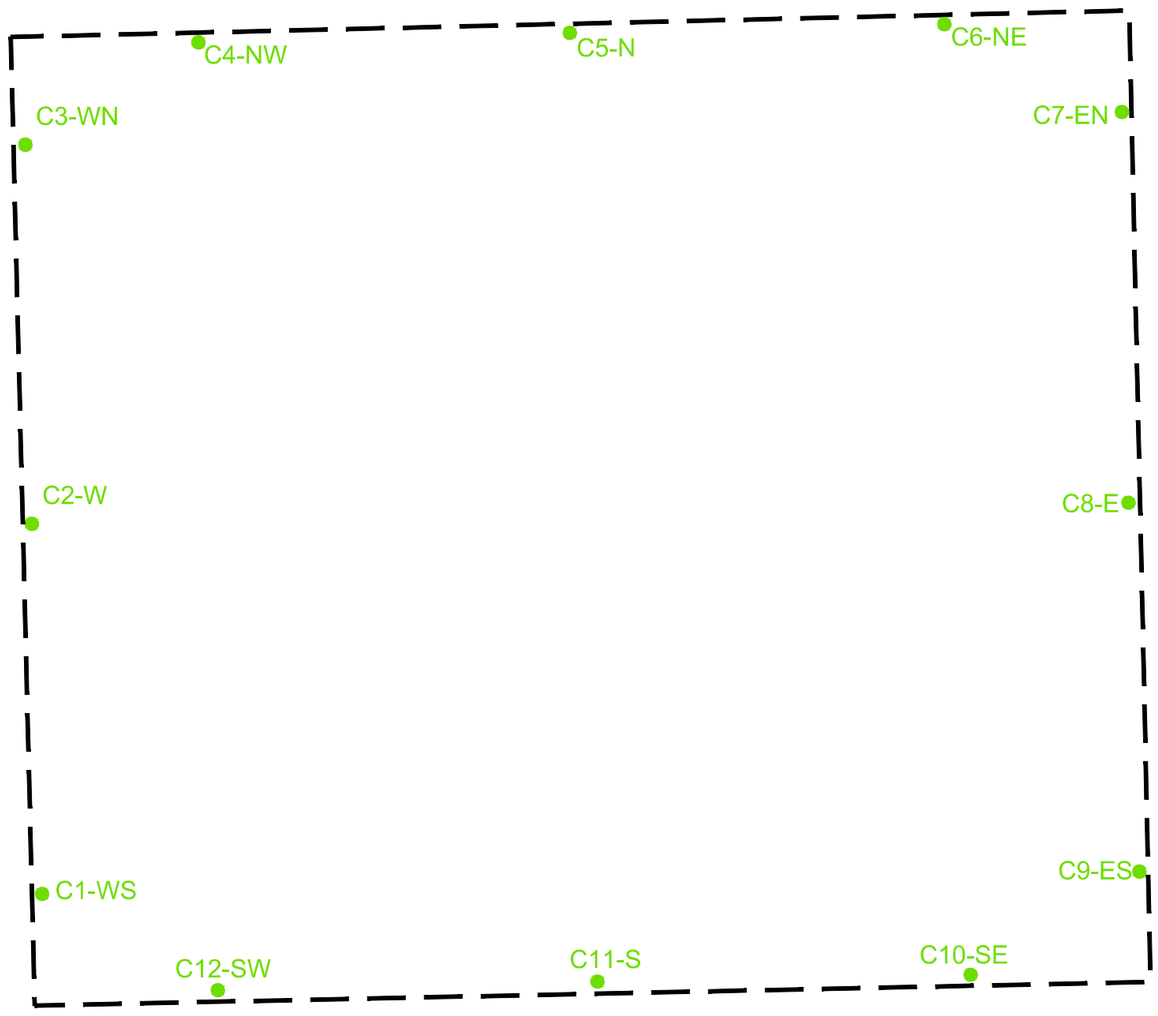
Issaquah, WA 98027

FIGURE 3

AREA B: BNSF PROPERTY OPERATIONS TRAILER
FINAL EXCAVATION LIMITS AND
SAMPLING LOCATIONS
BNSF FORMER MAINTENANCE AND
FUELING FACILITY
SKYKOMISH, WASHINGTON
FARALLON PN: 683-043

Drawn By: DEW	Checked By: RM	Date: 3/20/13	Disk Reference: 683043



LEGEND

EXTENT OF SOIL EXCAVATION

C1-WS EXCAVATION SAMPLE LOCATION

N

5 0 10

SCALE IN FEET

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Issaquah, WA 98027

FIGURE 4

AREA C: PROPERTY SOIL STOCKPILE AREA
FINAL EXCAVATION LIMITS AND
SAMPLING LOCATIONS
BNSF FORMER MAINTENANCE AND
FUELING FACILITY
SKYKOMISH, WASHINGTON
FARALLON PN: 683-043

Drawn By: DEW	Checked By: RM	Date: 3/20/13	Disk Reference: 683043

TABLE

2012 AS-BUILT COMPLETION REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043

Table 1
Metals Excavation Areas Soil Analytical Data
2012 As-Built Completion Report
Skykomish, Washington
Farallon PN: 683-043

Excavation Area Location	Sample Identification	Sample Date	Sample Depth (feet) [1]	Arsenic (mg/kg)	Lead (mg/kg)
Area A:West End of RYZ	A1-NW	09/05/12	1	**46**	240
	A2-NE	09/05/12	1	**30**	**250**
	A3-EN	09/05/12	1	11	240
	A4-ES	09/05/12	1	16	**850**
	A5-SE	09/05/12	1	**120**	49
	A6-SW	09/05/12	1	**100**	42
	A7-WS	09/05/12	1	13	48
	A8-WN	09/05/12	1	11	21
	A-DUP-1	09/05/12	1	8.7	200
Area B: BNSF Operations Trailer	B1-WS	09/06/12	1	4.1	5.0
	B2-WN	09/06/12	1	8.3	8.0
	B3-NW	09/06/12	1	3.5	3.2
	B4-N	09/06/12	1	8.2	51
	B5-N	09/06/12	1	7.7	4.5
	B6-NE	09/06/12	1	3.5	130
	B7-EN	09/06/12	1	8.7	59
	B8-ES	09/06/12	1	5.5	5.6
	B9-SE	09/06/12	1	6.5	5.2
	B10-S	09/06/12	1	5.0	5.5
	B11-S	09/06/12	1	2.7	11
	B12-SW	09/06/12	1	3.9	4.0
	B-DUP-1	09/06/12	1	3.2	74
	B-DUP-2	09/06/12	1	3.4	4.1

Table 1
Metals Excavation Areas Soil Analytical Data
2012 As-Built Completion Report
Skykomish, Washington
Farallon PN: 683-043

Excavation Area Location	Sample Identification	Sample Date	Sample Depth (feet) [1]	Arsenic (mg/kg)	Lead (mg/kg)
Area C: Metals-Impacted Soil Stockpile	C1-WS	09/07/12	1	7.3	47
	C2-W	09/07/12	1	13	80
	C3-WN	09/07/12	1	6.4	98
	C12-SW	09/07/12	1	5.7	99
	C 11-S	09/10/12	1	4.2	7.2
	C10-SE	09/10/12	1	3.1	3.4
	C4-NW	09/10/12	1	2.5	2.4
	C5-N	09/10/12	1	8.0	85
	C6-NE	09/10/12	1	7.9	**310**
	C7-EN	09/10/12	1	8.3	160
	C8-E	09/10/12	1	8.6	76
	C9-ES	09/10/12	1	7.0	62
	C-DUP-1	09/07/12	1	7.5	43
	C-DUP-2	09/10/12	1	8.9	190
MTCA Method A Cleanup Levels for Soil [3]				**20**	**250**

NOTES:

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

mg/kg = milligrams per kilogram

[1]Depth in feet below ground surface.

[2]Analyzed by U.S. Environmental Protection Agency Methods 6000/6010/7000 Series.

[3]Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as amended November 2007.

APPENDIX A
2012 DAILY FIELD NOTES

2012 AS-BUILT COMPLETION REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043

FARALLON consulting

FIELD REPORT

Page 1 of 1

Date: 8-29-12 **Project #:** 683-043 **Task #:** 002

Project: BNSF METALS EXCAVATION **Site Address:** SKYKOMISH, WA

Client: _____ **Contractor:** GLACIER

Weather: OVERCAST **Temp:** 78°

Equipment Used: PID, GPS

Hours: _____ 2.6 *Contractor* *Staff* **Mileage:** 130 **Project Manager:** JERRY PORTELE

Prepared By: ANDREW VINING **Reviewed By:** _____

Comments:

11:50 ARRIVE ONSITE. MEET THANE FROM GLACIER, WHO IS INSPECTING WELL PUMPS.

12:00 MAP OUT CENTRAL EXCAVATION USING GPS. ALL POINTS ARE MARKED EXCEPT NE CORNER, WHICH IS BENEATH A BUILDING FOOTING.

12:45 CONFIRM GPS ACCURACY ON TREATMENT SYSTEM BUILDING. WITH 12 SATELLITES GPS APPEARS TO HAVE 2'-3' ACCURACY. MARK OUT EAST EXCAVATION.

13:15 MARK OUT WEST EXCAVATION. PICK UP NAILS FROM BILL AT BNSF TO MARK CORNERS IN ASPHALT.

13:30 STAKE ALL EXCAVATION CORNERS, EXCEPT EASTERN WHICH IS ON ASPHALT.

14:30 LEAVE SITE.

FARALLON consulting

FIELD REPORT

Page 1 of 1

Date: 9/5/12 **Project #:** 653-043 **Task #:**

Project: BNSF Sky Metal Excav. **Site Address:** Skykomish

Client: BNSF **Contractor:** Glacier

Weather: Sunny **Temp:**

Equipment Used:

Hours: _____ _____ **Mileage:** _____ **Project Manager:** Jonny Berkele

Contractor Staff

Prepared By: David Johnson **Reviewed By:**

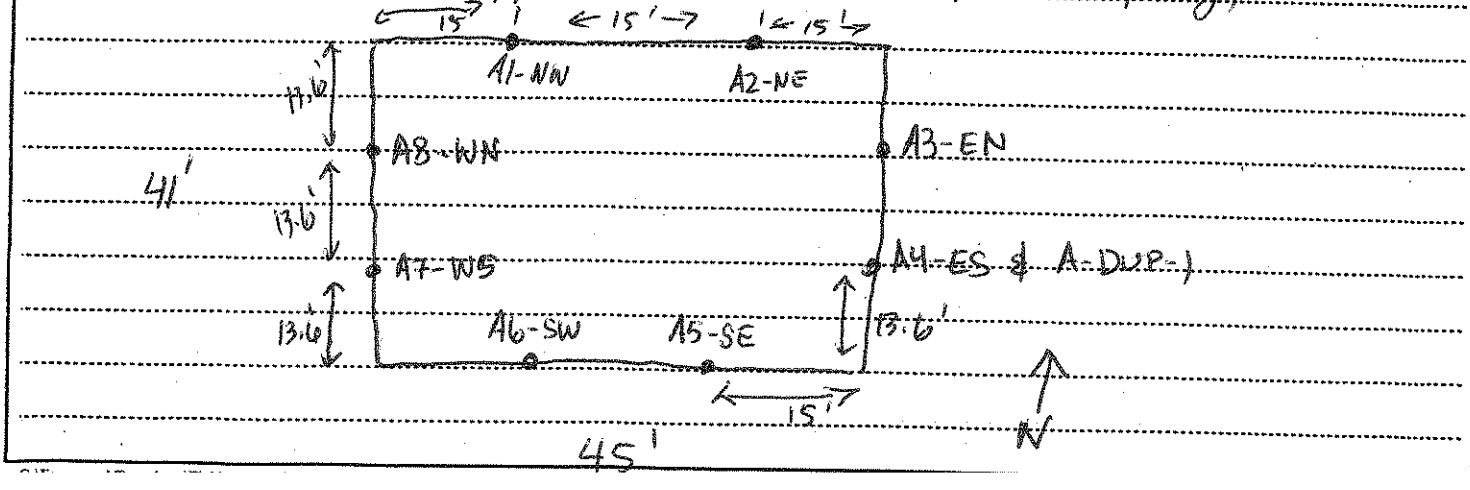
Comments:

0700 - Arrive onsite; Put on PPE; Meet w/ Stacy & Robbie from Glacier Exc. BNSF Flagger shows up; Brief health & safety meeting. Excavation begins on Far West area = Area A; Excav. Area = 45 ft x 41 ft. Thayne Wastman arrives from Glacier; Soil to be stockpiled in paved stockpile area & too be covered if left overnight.

0834 - BNSF Flagger states that Excavation Area should be fenced w/ orange mesh - high vis. Excavation Area B is 114 ft by 35 ft; South-west corner of Area B is underneath Depot building w/ new foundation; Excav. Area C is 73' x 64' & East section is into ecology Block ramp.

0900 - Glacier is excavating Area A to 2 ft bgs; Black material appears to be ~~[illegible]~~ filled to approx 2 ft bgs; See site photos.

1023 - Area A is approx 1/2 done; Begin sampling.



FARALLON consulting

FIELD REPORT (continued)

Project: Skykomish Metal Excavation **Date:** 9/5/12 **Project #:** 683-043 **Task #:**

1225 - Area A is 75% complete; All samples taken except 3 remaining. All sample taken approx 1 ft bgs; Sidewall samples taken in what appears as cinder material; approx 0.5 - 1.5 ft bgs the soil is black with charcoal, coal, cinder material. Cinder material is continued beyond excavation sidewalls. Duplicate sample taken at A4-ES location; Cinder material extends beyond 2 ft bgs in South-west Corner of excavation; 15 railcars onsite w/ 2 containers each; each container can hold 30 tons; Each railcar will hold 60 tons; Soil is being stockpiled in paved stockpile area; SE corner of stockpile area.

1350 - Final sidewall sample taken; Glacier will finish excavation & then backfill Area A today. Take final site photos prior to backfill

1420 - DS. OFFSITE TO Farallon office

9/5/12

SOIL SAMPLE DATA

PROJECT NAME:	PROJECT NO:	SHEET OF
PROJECT LOCATION:		
PID MODEL & SERIAL NO:	CALIBRATION DATE/STANDARD:	

HEADSPACE CONTAINER: ☐ 16 OZ GLASS ☐ 8 OZ GLASS ☐ 4 OZ GLASS ■ ZIP-LOC

SAMPLE METHOD: ☐ SONIC ☐ HAND AUGER ☐ HOLLOW STEM ☐ SPLIT SPOON ☐ GEOPROBE ☐ BACKHOE BUCKET

EQUIP DECON: ☐ TAP WATER WASH ☐ DIST/DEION 1 RINSE ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE

■ ALCONOX WASH ☐ LIQUINOX WASH ☐ DIST/DEION 2 RINSE ☐ OTHER SOLVENT ☐ DIST/DEION FINAL RINSE ☐ AIR DRY

LOCATION	DATE	SAMPLE NAME/ NUMBER OF CONTAINERS	DEPTH	TIME	STAINING	ODOR	PID	SHEEN	LITHOLOGIC DESCRIPTION REMARKS
	9/5/12	A1-NW	1	1030					Cinder like material, black
		A2-NE	1	1045					Coal like, charcoal, Rocky
		A3-EN	1	1120					Sandy; gravelly sand.
		A4-ES	1	1120					Some Red Orange material
		A5-SE	1	1220					
		A6-SW	1	1345					
		A7-WS	1	1350					
		A8-WN	1	1305					
		A-DUP-1	1	1120					

PREPARED BY:

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: TEST AMERICA
Project Manager: KEIS Allen
Address: [illegible]
Phone:
City/State/ZIP:
Fax:

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WA
Project City: SKYKOMISH
BNSF Project Name: SKYKOMISH METALS EXCAVATION
BNSF Contact:
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: Farallon Consulting
Address: ~~[illegible]~~ 975 5TH AVE NE
City/State/ZIP: Issaquah, WA 98027
Project Number: 1653-048
Project Manager: Jenny Parkle
Email:
Phone: 425-295-0800 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

EPA 6020 (Pb, As)

SAMPLE INFORMATION

	Sample identification	Containers	Sample Collection Date	Sample Collection Time	Sample Collection Sampler	Filtered Y/N	Type (Comp/ Grab)	Matrix	EPA 6020 (Pb, As)	COMMENTS	LAB USE
1	A1-NW	1	9/5/12	1030			G	S	X		
2	A2-NE	1	9/5/12	1045			G	S	X		
3	A3-EN	1	9/5/12	1120			G	S	X		
4	A4-ES	1	9/5/12	1120			G	S	X		
5	A5-SE	1	9/5/12	1220			G	S	X		
6	A6-SW	1	9/5/12	1345			G	S	X		
7	A7-WS	1	9/5/12	1350			G	S	X		
8	A8-WN	1	9/5/12	1305			G	S	X		
9	A-DUP-1	1	9/5/12	1120			G	S	X		
10											
11											
12											
13											
14											
15											

Relinquished By:	Date/Time: 9/6/12 1725	Received By:	Date/Time:	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 (06/08)

FARALLON consulting

FIELD REPORT

Page 1 of ___

Date: 9/6/12 **Project #:** 683-043 **Task #:** ___

Project: Sky Metals Excav. **Site Address:** Skykomish, WA

Client: BNSF **Contractor:** Glacier Env.

Weather: Sunny **Temp:** 75°

Equipment Used: ___

Hours: ___ ___ **Mileage:** ___ **Project Manager:** ___

Contractor Staff

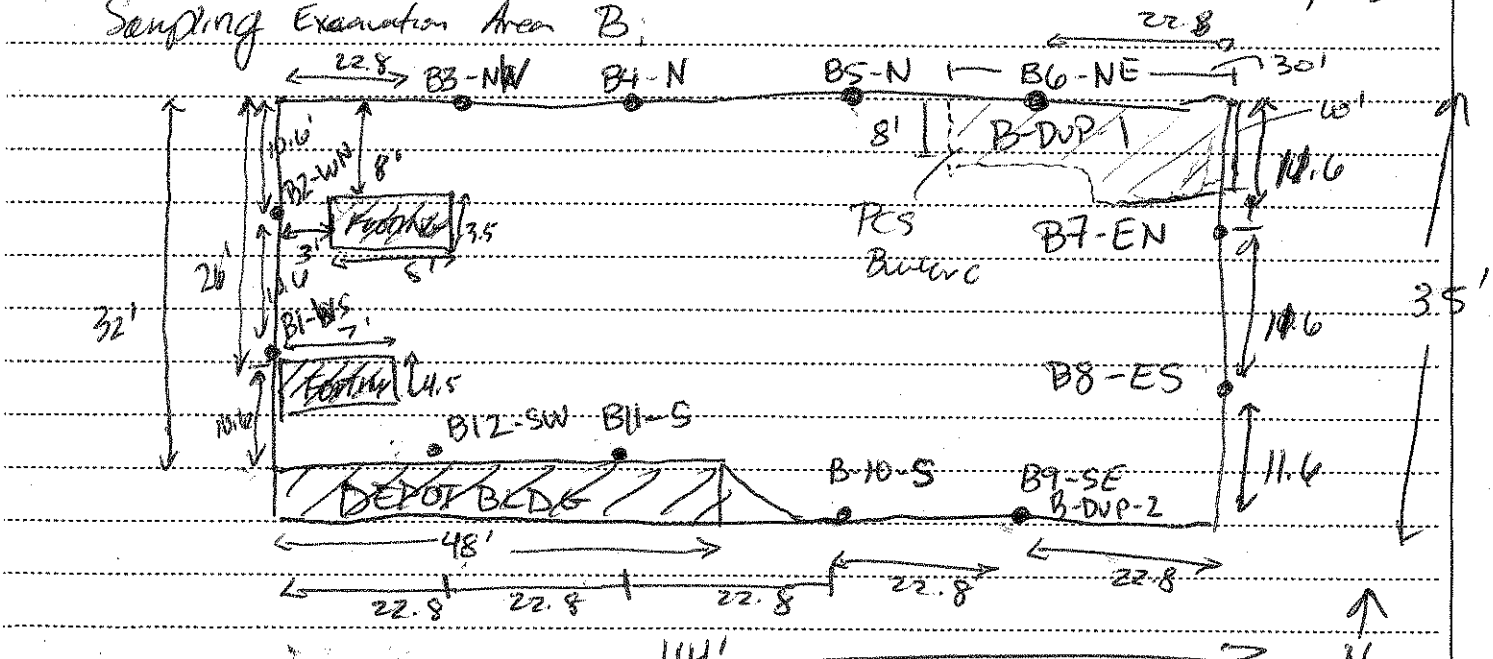
Prepared By: David J. **Reviewed By:** ___

Comments:

0704 - Arrive onsite; Met w/ Stacy & Robbie from Glacier Env. Health & Safety Meting sign in; BNSF Flagger arrives; Glacier begins to finish Backfill & compaction of Excavation Area A; Far west Area.

0945 - Two large footings discovered in the Excavation Area B (middle Area). Both ~~are~~ near western excav. Boundary. Northern most footing is approx 3.5 x 8 ft; Southern most footing is 4.5 x 7 ft (closest to Depot Bldg). Both extend beyond 2 ft bgs

1243 - Check in on Excavation; 60% complete for Area B; Begin Sampling Excavation Area B:



FARALLON consulting

FIELD REPORT (continued)

Page ___ of ___

Project: _____ Date: 9/6/12 Project #: _____ Task #: _____

1528 - Excavation Area B is 95% completely excavated NE corner of excavation ~~extends~~ contains bunker C like oil material; black in color; sticky, & area limited to NE corner

1630 - Excavation of Area B Complete; Backfill of Area now being undertaken w/ existg 1'6" crushed rock.

1650 - DS. OFFSITE

9/6/12

SOIL SAMPLE DATA

PROJECT NAME: SKY METALS EXCAVATION	PROJECT NO: 683-043	SHEET OF
PROJECT LOCATION: SKYKOMISH		
PID MODEL & SERIAL NO:	CALIBRATION DATE/STANDARD:	

HEADSPACE CONTAINER: ☐ 16 OZ GLASS ☒ 8 OZ GLASS ☐ 4 OZ GLASS ■ ZIP-LOC

SAMPLE METHOD: ☐ SONIC ☐ HAND AUGER ☐ HOLLOW STEM ☐ SPLIT SPOON ☐ GEOPROBE ☐ BACKHOE BUCKET

EQUIP DECON: ☒ TAP WATER WASH ☐ DIST/DEION 1 RINSE ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE

■ ALCONOX WASH ☐ LIQUINOX WASH ☐ DIST/DEION 2 RINSE ☐ OTHER SOLVENT ☐ DIST/DEION FINAL RINSE ☐ AIR DRY

LOCATION	DATE	SAMPLE NAME/ NUMBER OF CONTAINERS	DEPTH	TIME	STAINING	ODOR	PID	SHEEN	LITHOLOGIC DESCRIPTION / REMARKS
Side-wall	9/6/12	B1-WS	1	1309					Rocky, backfill like, grey brown sandy
		B2-WN	1	1320					" " "
		B3-NW		1358					" " "
		B4-N		1410					" " "
		B5-NE		1415					Sandy; light colored
		B6-NE		1449					Black, grey,
		B7-EN		1551					Sandy, gravelly
		B8-ES		~~1449~~	1551				
		B9-SE		1449					
		B10-S		~~1448~~	1445				
		B11-S		~~1450~~	1440				Fill like material; Rocky-Sandy
		B12-SW		~~1449~~	1434				Grey-Brown " "
		B-DUP-1		1449					
		B-DUP-2		1449					

PREPARED BY:

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: TEST AMERICA — Project Manager: KRISTIN 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
Address: 975 5th Avenue Northwest
City/State/ZIP: Issaquah, WA 98027
Project Number: 683-043
Project Manager: Jerry Portele
Email:
Phone: 425-295-0800 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? ______

SAMPLE INFORMATION

	Sample identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	METHODS FOR ANALYSIS: EPA 6020 Pb, As							COMMENTS	LAB USE
1	B1-WS	1	9/10/12	1309			G	S	X								
2	B2-WN	1	↓	1320			G	S	X								
3	B3-NW	1	↓	1358			G	S	X								
4	B4-N	1	↓	1410			G	S	X								
5	B5-N	1	↓	1415			G	S	X								
6	B6-NE	1	↓	1449			G	S	X								
7	B7-EN	1	↓	1551			G	S	X								
8	B8-ES	1	↓	1551			G	S	X								
9	B9-SE	1	↓	1449			G	S	X								
10	B10-S	1	↓	1445			G	S	X								
11	B11-S	1	↓	1410			G	S	X								
12	B12-SW	1	↓	1434			G	S	X								
13	B-DUP-1	1	↓	1449			G	S	X								
14	B-DUP-2	1	↓	1449			G	S	X								
15																	

Relinquished By: David Johnson	Date/Time: 9/10/12 19:25	Received By:	Date/Time:
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

FARALLON consulting

FIELD REPORT

Page ___ of ___

Date: 9/7/12 **Project #:** 683-043 **Task #:** _____

Project: Sky Metals Excavation **Site Address:** Skykomish

Client: BNSF **Contractor:** Glacier Env.

Weather: Sunny. **Temp:** _____

Equipment Used: _____

Hours: _____ _____ **Mileage:** _____ **Project Manager:** _____

Contractor Staff

Prepared By: David Johnson **Reviewed By:** _____

Comments:

0705 - Arrive onsite; PJ on PPE; Excavation Area B (middle by Depot) is backfilled & compacted.

0815 - Verified all field Excavation control Coordinates; Map on Trimble has slightly off control points; Excavation areas marked to exact Coordinates given. Glacier is completing backfill material at Excavation Areas A & B;

1045 - Ecology blocks moved from ramp area to South area; staked; ~~Ramp is being dug~~

Soil from ramp area is being moved to allow access to excavation area beneath. soil

1330 - Glacier begins Excavation of Area C. Ramp is moved back to allow access beneath the west portion of ramp / East portion of Excav. Area C.

1545 - Area C is 15% complete, Glacier to rob offsite; Excavation Area is marked off w/ delineators;

CAR # 7 SOLID TOP 1105 West end. 14 loaded

CAR # 8 1/2 SOLID TOP

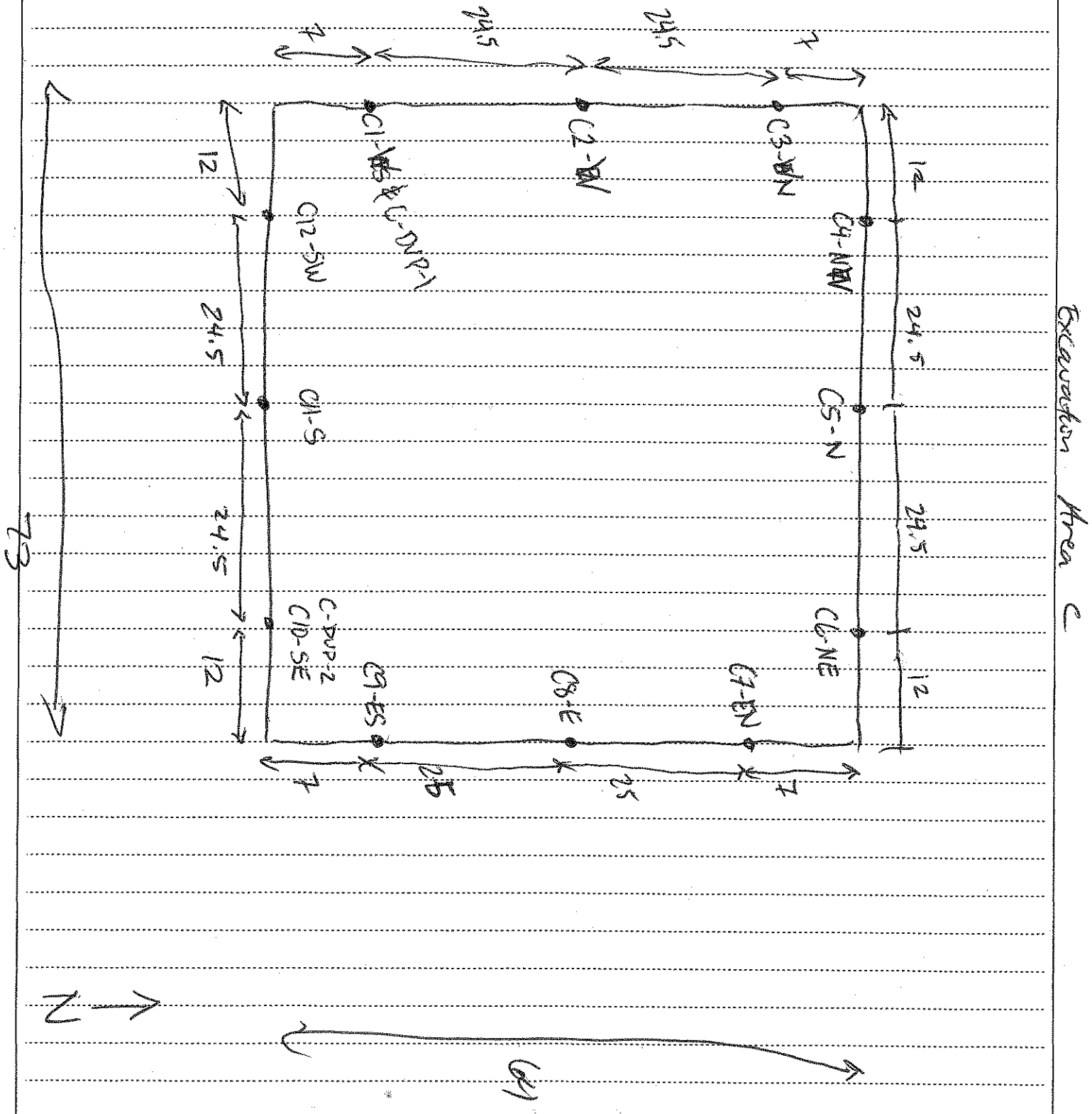
9/7 & 9/10

FARALLON consulting

FIELD REPORT (continued)

Page ___ of ___

Project: _____ **Date:** _____ **Project #:** _____ **Task #:** _____



SOIL SAMPLE DATA

9/7/12 & 9/10/12

PROJECT NAME:	PROJECT NO:	SHEET OF
PROJECT LOCATION:		
PID MODEL & SERIAL NO:		CALIBRATION DATE/STANDARD:

HEADSPACE CONTAINER: ☐ 16 OZ GLASS ☐ 8 OZ GLASS ☐ 4 OZ GLASS ■ ZIP-LOC

SAMPLE METHOD: ☐ SONIC ☐ HAND AUGER ☐ HOLLOW STEM ☐ SPLIT SPOON ☐ GEOPROBE ☐ BACKHOE BUCKET

EQUIP DECON: ☐ TAP WATER WASH ☐ DIST/DEION 1 RINSE ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE

■ ALCONOX WASH ☐ LIQUINOX WASH ☐ DIST/DEION 2 RINSE ☐ OTHER SOLVENT ☐ DIST/DEION FINAL RINSE ☐ AIR DRY

LOCATION	DATE	SAMPLE NAME/ NUMBER OF CONTAINERS	DEPTH	TIME	STAINING	ODOR	PID	SHEEN	LITHOLOGIC DESCRIPTION REMARKS
	9/7/12	C1-WS	1	1412					gravel, grey brown
	9/7	C-DUP-1	1	1412					
	9/7	C2-W	1	1412					Dark, black; small gravel, sand, clay
	9/7	C3-WN	1	1412					Black; dark, gravel, Sand, clay balls
	9/7	C12-SW	1	1510					Black, gravely, sand,
	9/10/12	C11-S	1	1358					grey, Black, moist from rain; gravelly Sand
	9/10/12	C10-SE	1	1358					
	9/10/12	C-DUP-2	1	1358					
	9/10/12	C4-NW	1	1410					Dark gravely, reddish layers,
	9/10/12	C5-N	1	1410					gravelly, grey
	9/10/12	C6-NE	1	1410					gravelly, grey
	9/10/12	C7-EN	1	1530					grey, rocky, sandy
	9/10/12	C8-E	1	1618					
	9/10/12	C9-ES	1	1640					

PREPARED BY:

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

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

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

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

CONSULTANT INFORMATION

Company: Farallon Consulting
Address: 975 NE 51st AVENUE
City/State/ZIP: Issaquah, WA 98027
Project Number: 653-043
Project Manager: Jerry Portele
Email:
Phone: 425-295-0800
Fax:

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 2- 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

EPA 6020 PAHs

SAMPLE INFORMATION

	Sample identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/ Grab)	Matrix	EPA 6020	PAHs							COMMENTS	LAB USE
1	C1-WS	1	9/7/12	1412			G	S	X									
2	C-DUP-1	1	9/7/12	1412			G	S	X									
3	C2-W	1	9/7/12	1412			G	S	X									
4	C3-WN	1	9/7/12	1412			G	S	X									
5	C12-SW	1	9/7/12	1510			G	S	X									
6	C11-S	1	9/10/12	1358			G	S	X									
7	C10-SE	1	9/10/12	1358			G	S	X									
8	C-DUP-2	1	9/10/12	1358			G	S	X									
9	C4-NW	1	9/10/12	1410			G	S	X									
10	C5-N	1	9/10/12	1410			G	S	X									
11	C6-NE	1	9/10/12	1410			G	S	X									
12	C7-EN	1	9/10/12	1530			G	S	X									
13	C8-E	1	9/10/12	1618			G	S	X									
14	C9-ES	1	9/10/12	1640			G	S	X									
15																		

Relinquished By:	Date/Time: 9/10/12 1925	Received By:	Date/Time:	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 (06/08)

FARALLON consulting

FIELD REPORT

Page ___ of ___

Date: 9/10/12 **Project #:** 683-043 **Task #:** _____

Project: Sky Metals Excav. **Site Address:** Skykomish

Client: BNSF **Contractor:** Glacier ENV.

Weather: Rainy / Overcast **Temp:** _____

Equipment Used: _____

Hours: _____ _____ **Mileage:** _____ **Project Manager:** _____

Contractor Staff

Prepared By: David Johnson **Reviewed By:** _____

Comments:

0705 - Arrive onsite; Put on Level D PPE; Location of the stockpiled Areas; Car #7 from West has soil on TOP on Container Cars; Car #8 has ½ containers w/ soil on TOP; CAR #15 only Rail car left W/ a load. 3 containers had soil on top. Excavation Area C is 30% complete; Make call to have 5 additional Rail cars brought up.

0830 Excavation at Area C begins; Soil sampling of Sidewalls continues;

1700 - Excavation Area C wrapped up; Excavation to remain open overnight; Backfilled on 9/11/12.

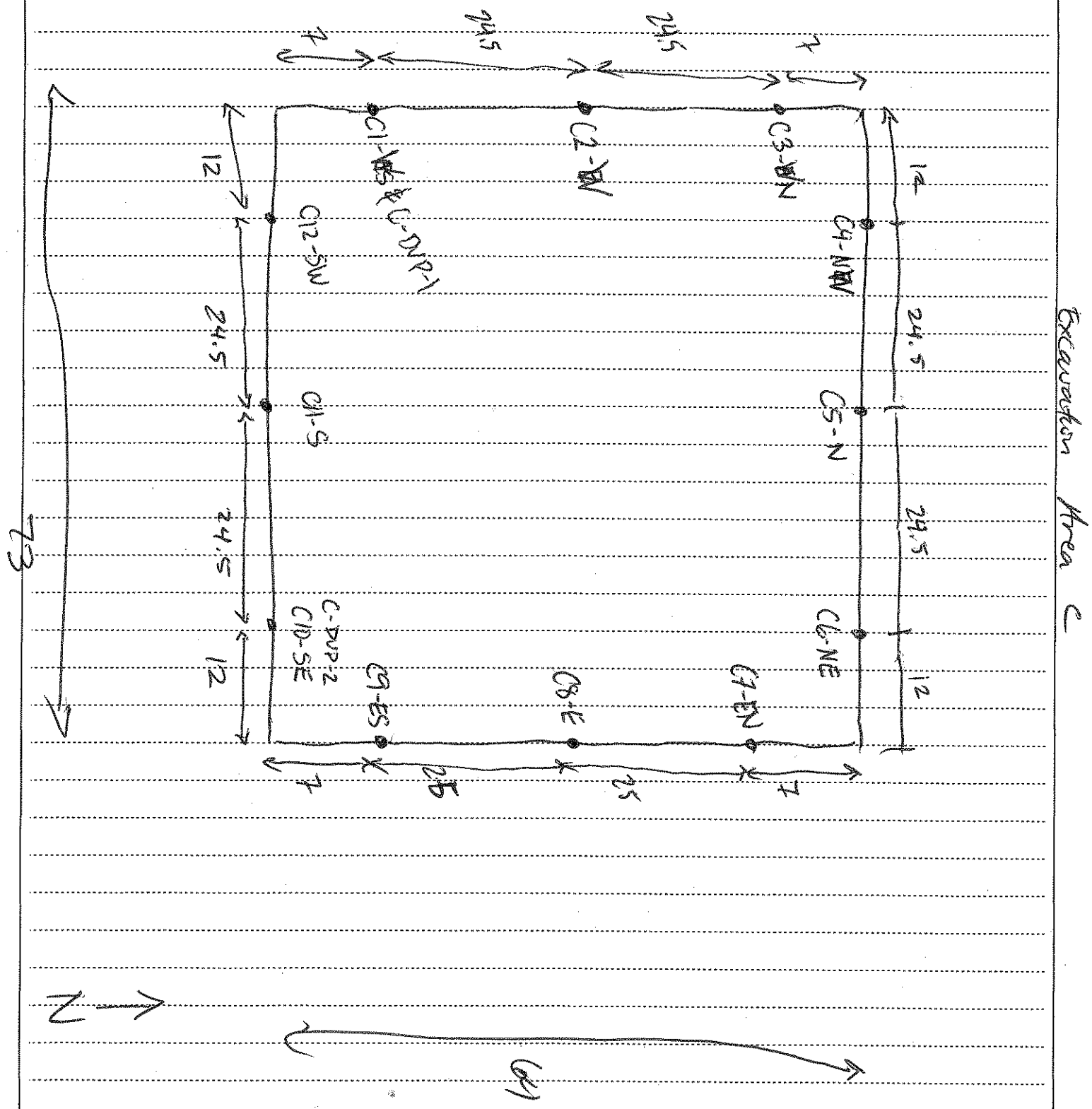
1730 - DJ offsite to Farallon office.

9/7 & 9/10

FARALLON consulting

FIELD REPORT (continued)

Project: _____ **Date:** _____ **Project #:** _____ **Task #:** _____



SOIL SAMPLE DATA

9/7/12 & 9/10/12

PROJECT NAME:	PROJECT NO:	SHEET OF
PROJECT LOCATION:		
PID MODEL & SERIAL NO:	CALIBRATION DATE/STANDARD:	

HEADSPACE CONTAINER: ☐ 16 OZ GLASS ☐ 8 OZ GLASS ☐ 4 OZ GLASS ■ ZIP-LOC

SAMPLE METHOD: ☐ SONIC ☐ HAND AUGER ☐ HOLLOW STEM ☐ SPLIT SPOON ☐ GEOPROBE ☐ BACKHOE BUCKET

EQUIP DECON: ☐ TAP WATER WASH ☐ DIST/DEION 1 RINSE ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE

■ ALCONOX WASH ☐ LIQUINOX WASH ☐ DIST/DEION 2 RINSE ☐ OTHER SOLVENT ☐ DIST/DEION FINAL RINSE ☐ AIR DRY

LOCATION	DATE	SAMPLE NAME/ NUMBER OF CONTAINERS	DEPTH	TIME	STAINING	ODOR	PID	SHEEN	LITHOLOGIC DESCRIPTION REMARKS
	9/7/12	C1-WS	1	1412					gravel, grey brown
	9/7	C-DUP-1	1	1412					
	9/7	C2-W	1	1412					Dark, black; small gravel, sand, clay Brn
	9/7	C3-WN	1	1412					Black; Dark, gravel, Sand, clay balls
	9/7	C12-SW	1	1510					Black, gravely, Sand,
	9/10/12	C11-S	1	1358					grey, Black, moist from rain; gravelly Sand
	9/10/12	C10-SE	1	1358					
	9/10/12	C-DUP-2	1	1358					
	9/10/12	C4-NW	1	1410					Dark gravely, reddish layers,
	9/10/12	C5-N	1	1410					gravelly, grey
	9/10/12	C6-NE	1	1410					gravelly, grey
	9/10/12	C7-EN	1	1530					grey, rocky, sandy
	9/10/12	C8-E	1	1618					
	9/10/12	C9-ES	1	1640					

PREPARED BY:

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: TEST AMERICA
Project Manager: KRISTINE 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: Skykomish
BNSF Project Name:
BNSF Contact:
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: Farallon Consulting
Address: 975 NE 51st AVENUE
City/State/ZIP: Issaquah, WA 98027
Project Number: 683-043
Project Manager: Jenny Portele
Email:
Phone: 425-295-0800
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)
- [ ] Other Deliverables?
- [ ] Level III
- [ ] EDD Req, Format?
- [ ] Level IV

METHODS FOR ANALYSIS

EPA 8020 TPHG

SAMPLE INFORMATION

	Sample identification	Containers	Sample Collection Date	Sample Collection Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	EPA 8020 TPHG								COMMENTS	LAB USE
1	C1-WS	1	9/7/12	1412			G	S	X									
2	C-DUP-1	1	9/7/12	1412			G	S	X									
3	C2-W	1	9/7/12	1412			G	S	X									
4	C3-WN	1	9/7/12	1412			G	S	X									
5	C12-SW	1	9/7/12	1510			G	S	X									
6	C11-S	1	9/10/12	1358			G	S	X									
7	C10-SE	1	9/10/12	1358			G	S	X									
8	C-DUP-2	1	9/10/12	1358			G	S	X									
9	C4-NW	1	9/10/12	1410			G	S	X									
10	C5-N	1	9/10/12	1410			G	S	X									
11	C6-NE	1	9/10/12	1410			G	S	X									
12	C7-EN	1	9/10/12	1530			G	S	X									
13	C8-E	1	9/10/12	1618			G	S	X									
14	C9-ES	1	9/10/12	1640			G	S	X									
15																		

Relinquished By:	Date/Time: 9/10/12 1925	Received By:	Date/Time:	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 (06/08)

APPENDIX B
SITE PHOTOGRAPHS

2012 AS-BUILT COMPLETION REPORT
BNSF Former Maintenance and Fueling Facility
Skykomish, Washington
Consent Decree No. 07-2-33672-9 SEA

Farallon PN: 683-043

SITE PHOTOGRAPHS

2012 As-Built Completion Report
Skykomish, Washington
Farallon PN: 683-043

Photograph 1: Area A: View from FC-001 looking southeast at final excavation limits.

Photograph 2: Area A: View from A1-NW sample point looking north at excavation wall soil profile.

Photograph 3: Area A: View from FC-004 looking northwest following compaction of backfill aggregate.

Photograph 4: Area B: View from FC-005 looking southeast at building footings encountered during excavation.

Photograph 5: Area B: View from FC-006 looking west at final excavation limits.

Photograph 6: Area B: View from FC-008 looking northwest at final excavation limits.

Photograph 7: Area B: View from FC-007 looking east following compaction of backfill aggregate.

Photograph 8: Area C: View from FC-009 looking east during excavation.

Photograph 9: Area C: View from FC-012 looking east at metals-impacted soil stockpiled in soil-handling facility.

Photograph 10: Area C: View from FC-012 looking northwest at final excavation limits.

Photograph 11: Loadout: View from soil-handling facility looking east at railcars being loaded with impacted soil.

Photograph 12: Loadout: View from FC-009 looking southwest at stockpile of impacted soil excavated during 2011 remediation.

Photograph 1: Area A: View from FC-001 looking southeast at final excavation limits.

Photograph 2: Area A: View from A1-NW sample point looking north at excavation wall soil profile.

Photograph 3: Area A: View from FC-004 looking northwest following compaction of backfill aggregate.

Photograph 4: Area B: View from FC-005 looking southeast at building footings encountered during excavation.

Photograph 5: Area B: View from FC-006 looking west at final excavation limits.

Photograph 6: Area B: View from FC-008 looking northwest at final excavation limits.

Photograph 7: Area B: View from FC-007 looking east following compaction of backfill aggregate.

Photograph 8: Area C: View from FC-009 looking east during excavation.

Photograph 9: Area C: View from FC-012 looking east at metals-impacted soil stockpiled in soil-handling facility.

Photograph 10: Area C: View from FC-012 looking northwest at final excavation limits.

Photograph 11: Loadout: View from soil-handling facility looking east at railcars being loaded with impacted soil.

Photograph 12: Loadout: View from FC-009 looking southwest at stockpile of impacted soil excavated during 2011 remediation.

APPENDIX C
LABORATORY ANALYTICAL REPORTS

2012 AS-BUILT COMPLETION 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: 580-34879-1
Client Project/Site: Skykomish Metals Excavation

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

Attn: Gerald Portele

Kristine D. Allen

Authorized for release by:
9/18/2012 1:04:34 PM

Kristine Allen
Project Manager I
kristine.allen@testamericainc.com

Table of Contents

Job ID: 580-34879-1

Laboratory: TestAmerica Seattle

Narrative

Receipt

The samples were received on 9/11/2012 3:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 1.1º C.

Metals

No analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Qualifiers

Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
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 Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: A1-NW
Date Collected: 09/05/12 10:30
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-1
Matrix: Solid
Percent Solids: 79.6

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	46		0.61		mg/Kg	☼	09/13/12 12:31	09/14/12 13:10	10
Lead	240		0.24		mg/Kg	☼	09/13/12 12:31	09/14/12 13:10	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80		0.10		%			09/17/12 11:06	1
Percent Moisture	20		0.10		%			09/17/12 11:06	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: A2-NE
Date Collected: 09/05/12 10:45
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-2
Matrix: Solid
Percent Solids: 80.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	30		0.59		mg/Kg	☼	09/13/12 12:31	09/14/12 13:42	10
Lead	250		0.24		mg/Kg	☼	09/13/12 12:31	09/14/12 13:42	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80		0.10		%			09/17/12 11:06	1
Percent Moisture	20		0.10		%			09/17/12 11:06	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: A3-EN
Date Collected: 09/05/12 11:20
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-3
Matrix: Solid
Percent Solids: 84.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		0.53		mg/Kg	☼	09/13/12 12:31	09/14/12 13:46	10
Lead	240		0.21		mg/Kg	☼	09/13/12 12:31	09/14/12 13:46	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84		0.10		%			09/17/12 11:06	1
Percent Moisture	16		0.10		%			09/17/12 11:06	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: A4-ES
Date Collected: 09/05/12 11:20
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-4
Matrix: Solid
Percent Solids: 80.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16		0.53		mg/Kg	☼	09/13/12 12:31	09/14/12 13:50	10
Lead	850		0.21		mg/Kg	☼	09/13/12 12:31	09/14/12 13:50	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80		0.10		%			09/17/12 11:30	1
Percent Moisture	20		0.10		%			09/17/12 11:30	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: A5-SE
Date Collected: 09/05/12 12:20
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-5
Matrix: Solid
Percent Solids: 67.6

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	120		0.57		mg/Kg	☼	09/13/12 12:31	09/14/12 13:53	10
Lead	49		0.23		mg/Kg	☼	09/13/12 12:31	09/14/12 13:53	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	68		0.10		%			09/17/12 11:30	1
Percent Moisture	32		0.10		%			09/17/12 11:30	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: A6-SW
Date Collected: 09/05/12 13:45
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-6
Matrix: Solid
Percent Solids: 91.7

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	100		0.49		mg/Kg	☼	09/13/12 12:31	09/14/12 13:57	10
Lead	42		0.19		mg/Kg	☼	09/13/12 12:31	09/14/12 13:57	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92		0.10		%			09/17/12 11:30	1
Percent Moisture	8.3		0.10		%			09/17/12 11:30	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: A7-WS
Date Collected: 09/05/12 13:50
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-7
Matrix: Solid
Percent Solids: 62.6

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		0.68		mg/Kg	☼	09/13/12 12:31	09/14/12 14:00	10
Lead	48		0.27		mg/Kg	☼	09/13/12 12:31	09/14/12 14:00	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	63		0.10		%			09/17/12 11:30	1
Percent Moisture	37		0.10		%			09/17/12 11:30	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: A8-WN
Date Collected: 09/05/12 13:05
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-8
Matrix: Solid
Percent Solids: 65.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		0.65		mg/Kg	☼	09/13/12 12:31	09/14/12 14:04	10
Lead	21		0.26		mg/Kg	☼	09/13/12 12:31	09/14/12 14:04	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	66		0.10		%			09/17/12 11:30	1
Percent Moisture	34		0.10		%			09/17/12 11:30	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: A-DUP-1
Date Collected: 09/05/12 11:20
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-9
Matrix: Solid
Percent Solids: 73.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.7		0.65		mg/Kg	☼	09/13/12 12:31	09/14/12 14:07	10
Lead	200		0.26		mg/Kg	☼	09/13/12 12:31	09/14/12 14:07	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	73		0.10		%			09/17/12 11:30	1
Percent Moisture	27		0.10		%			09/17/12 11:30	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: B1-WS
Date Collected: 09/06/12 13:09
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-10
Matrix: Solid
Percent Solids: 96.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.1		0.42		mg/Kg	☼	09/13/12 12:31	09/14/12 14:11	10
Lead	5.0		0.17		mg/Kg	☼	09/13/12 12:31	09/14/12 14:11	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97		0.10		%			09/17/12 11:30	1
Percent Moisture	3.5		0.10		%			09/17/12 11:30	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: B2-WN
Date Collected: 09/06/12 13:20
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-11
Matrix: Solid
Percent Solids: 77.7

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.3		0.56		mg/Kg	☼	09/13/12 12:31	09/14/12 14:14	10
Lead	8.0		0.22		mg/Kg	☼	09/13/12 12:31	09/14/12 14:14	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78		0.10		%			09/17/12 11:30	1
Percent Moisture	22		0.10		%			09/17/12 11:30	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: B3-NW
Date Collected: 09/06/12 13:58
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-12
Matrix: Solid
Percent Solids: 92.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.5		0.45		mg/Kg	☼	09/13/12 12:31	09/14/12 14:25	10
Lead	3.2		0.18		mg/Kg	☼	09/13/12 12:31	09/14/12 14:25	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93		0.10		%			09/17/12 11:30	1
Percent Moisture	7.2		0.10		%			09/17/12 11:30	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: B4-N
Date Collected: 09/06/12 14:10
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-13
Matrix: Solid
Percent Solids: 94.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.2		0.48		mg/Kg	☼	09/13/12 12:31	09/14/12 14:29	10
Lead	51		0.19		mg/Kg	☼	09/13/12 12:31	09/14/12 14:29	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10		%			09/17/12 11:30	1
Percent Moisture	5.2		0.10		%			09/17/12 11:30	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: B5-N
Date Collected: 09/06/12 14:15
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-14
Matrix: Solid
Percent Solids: 93.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.7		0.46		mg/Kg	☼	09/13/12 12:31	09/14/12 14:33	10
Lead	4.5		0.18		mg/Kg	☼	09/13/12 12:31	09/14/12 14:33	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93		0.10		%			09/17/12 11:30	1
Percent Moisture	6.5		0.10		%			09/17/12 11:30	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: B6-NE
Date Collected: 09/06/12 14:49
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-15
Matrix: Solid
Percent Solids: 90.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.5		0.55		mg/Kg	☼	09/13/12 12:31	09/14/12 14:36	10
Lead	130		0.22		mg/Kg	☼	09/13/12 12:31	09/14/12 14:36	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90		0.10		%			09/17/12 11:30	1
Percent Moisture	9.9		0.10		%			09/17/12 11:30	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: B7-EN
Date Collected: 09/06/12 15:51
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-16
Matrix: Solid
Percent Solids: 90.7

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.7		0.50		mg/Kg	☼	09/13/12 12:31	09/14/12 14:40	10
Lead	59		0.20		mg/Kg	☼	09/13/12 12:31	09/14/12 14:40	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91		0.10		%			09/17/12 11:30	1
Percent Moisture	9.3		0.10		%			09/17/12 11:30	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: B8-ES
Date Collected: 09/06/12 15:51
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-17
Matrix: Solid
Percent Solids: 97.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.5		0.49		mg/Kg	☼	09/13/12 12:31	09/14/12 14:43	10
Lead	5.6		0.20		mg/Kg	☼	09/13/12 12:31	09/14/12 14:43	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97		0.10		%			09/17/12 11:30	1
Percent Moisture	2.9		0.10		%			09/17/12 11:30	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: B9-SE
Date Collected: 09/06/12 14:49
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-18
Matrix: Solid
Percent Solids: 97.2

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.5		0.48		mg/Kg	☼	09/13/12 12:31	09/14/12 14:47	10
Lead	5.2		0.19		mg/Kg	☼	09/13/12 12:31	09/14/12 14:47	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97		0.10		%			09/17/12 11:30	1
Percent Moisture	2.8		0.10		%			09/17/12 11:30	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: B10-S
Date Collected: 09/06/12 14:45
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-19
Matrix: Solid
Percent Solids: 95.2

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0		0.50		mg/Kg	☼	09/17/12 07:28	09/17/12 11:15	10
Lead	5.5		0.20		mg/Kg	☼	09/17/12 07:28	09/17/12 11:15	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10		%			09/17/12 11:30	1
Percent Moisture	4.8		0.10		%			09/17/12 11:30	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: B11-S
Date Collected: 09/06/12 14:40
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-20
Matrix: Solid
Percent Solids: 83.3

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7		0.52		mg/Kg	☼	09/17/12 07:28	09/17/12 11:40	10
Lead	11		0.21		mg/Kg	☼	09/17/12 07:28	09/17/12 11:40	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83		0.10		%			09/17/12 11:30	1
Percent Moisture	17		0.10		%			09/17/12 11:30	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: B12-SW
Date Collected: 09/06/12 14:34
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-21
Matrix: Solid
Percent Solids: 95.7

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.9		0.48		mg/Kg	☼	09/17/12 07:28	09/17/12 11:44	10
Lead	4.0		0.19		mg/Kg	☼	09/17/12 07:28	09/17/12 11:44	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96		0.10		%			09/17/12 11:30	1
Percent Moisture	4.3		0.10		%			09/17/12 11:30	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: B-DUP-1
Date Collected: 09/06/12 14:49
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-22
Matrix: Solid
Percent Solids: 72.6

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.2		0.63		mg/Kg	☼	09/17/12 07:28	09/17/12 11:47	10
Lead	74		0.25		mg/Kg	☼	09/17/12 07:28	09/17/12 11:47	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	73		0.10		%			09/17/12 11:30	1
Percent Moisture	27		0.10		%			09/17/12 11:30	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: B-DUP-2
Date Collected: 09/06/12 14:49
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-23
Matrix: Solid
Percent Solids: 84.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.4		0.48		mg/Kg	☼	09/17/12 07:28	09/17/12 11:51	10
Lead	4.1		0.19		mg/Kg	☼	09/17/12 07:28	09/17/12 11:51	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84		0.10		%			09/17/12 11:30	1
Percent Moisture	16		0.10		%			09/17/12 11:30	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: C1-WS
Date Collected: 09/07/12 14:12
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-24
Matrix: Solid
Percent Solids: 93.7

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.3		0.43		mg/Kg	☼	09/17/12 07:28	09/17/12 11:54	10
Lead	47		0.17		mg/Kg	☼	09/17/12 07:28	09/17/12 11:54	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94		0.10		%			09/17/12 12:15	1
Percent Moisture	6.3		0.10		%			09/17/12 12:15	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: C-DUP-1
Date Collected: 09/07/12 14:12
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-25
Matrix: Solid
Percent Solids: 93.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		0.46		mg/Kg	☼	09/17/12 07:28	09/17/12 11:58	10
Lead	43		0.18		mg/Kg	☼	09/17/12 07:28	09/17/12 11:58	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94		0.10		%			09/17/12 12:15	1
Percent Moisture	6.2		0.10		%			09/17/12 12:15	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: C2-W
Date Collected: 09/07/12 14:12
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-26
Matrix: Solid
Percent Solids: 89.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		0.51		mg/Kg	☼	09/17/12 07:28	09/17/12 12:02	10
Lead	80		0.20		mg/Kg	☼	09/17/12 07:28	09/17/12 12:02	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90		0.10		%			09/17/12 12:15	1
Percent Moisture	10		0.10		%			09/17/12 12:15	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: C3-WN
Date Collected: 09/07/12 14:12
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-27
Matrix: Solid
Percent Solids: 93.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.4		0.49		mg/Kg	☼	09/17/12 07:28	09/17/12 12:05	10
Lead	98		0.20		mg/Kg	☼	09/17/12 07:28	09/17/12 12:05	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93		0.10		%			09/17/12 12:15	1
Percent Moisture	6.9		0.10		%			09/17/12 12:15	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: C12-SW
Date Collected: 09/07/12 15:10
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-28
Matrix: Solid
Percent Solids: 94.2

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		0.47		mg/Kg	☼	09/17/12 07:28	09/17/12 12:09	10
Lead	62		0.19		mg/Kg	☼	09/17/12 07:28	09/17/12 12:09	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94		0.10		%			09/17/12 12:15	1
Percent Moisture	5.8		0.10		%			09/17/12 12:15	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: C11-S
Date Collected: 09/10/12 13:58
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-29
Matrix: Solid
Percent Solids: 85.9

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.6		0.54		mg/Kg	☼	09/17/12 07:28	09/17/12 12:52	10
Lead	76		0.21		mg/Kg	☼	09/17/12 07:28	09/17/12 12:52	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86		0.10		%			09/17/12 12:15	1
Percent Moisture	14		0.10		%			09/17/12 12:15	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: C10-SE
Date Collected: 09/10/12 13:58
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-30
Matrix: Solid
Percent Solids: 91.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.3		0.49		mg/Kg	☼	09/17/12 07:28	09/17/12 12:23	10
Lead	160		0.20		mg/Kg	☼	09/17/12 07:28	09/17/12 12:23	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91		0.10		%			09/17/12 12:15	1
Percent Moisture	8.5		0.10		%			09/17/12 12:15	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: C-DUP-2
Date Collected: 09/10/12 13:58
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-31
Matrix: Solid
Percent Solids: 91.3

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.9		0.47		mg/Kg	☼	09/17/12 07:28	09/17/12 12:27	10
Lead	190		0.19		mg/Kg	☼	09/17/12 07:28	09/17/12 12:27	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91		0.10		%			09/17/12 12:15	1
Percent Moisture	8.7		0.10		%			09/17/12 12:15	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: C4-NW
Date Collected: 09/10/12 14:10
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-32
Matrix: Solid
Percent Solids: 85.7

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.7		0.58		mg/Kg	☼	09/17/12 07:28	09/17/12 12:30	10
Lead	99		0.23		mg/Kg	☼	09/17/12 07:28	09/17/12 12:30	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86		0.10		%			09/17/12 12:15	1
Percent Moisture	14		0.10		%			09/17/12 12:15	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: C5-N
Date Collected: 09/10/12 14:10
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-33
Matrix: Solid
Percent Solids: 93.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2		0.46		mg/Kg	☼	09/17/12 07:28	09/17/12 12:34	10
Lead	7.2		0.18		mg/Kg	☼	09/17/12 07:28	09/17/12 12:34	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93		0.10		%			09/17/12 12:15	1
Percent Moisture	6.9		0.10		%			09/17/12 12:15	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: C6-NE
Date Collected: 09/10/12 14:10
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-34
Matrix: Solid
Percent Solids: 95.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		0.48		mg/Kg	☼	09/17/12 07:28	09/17/12 12:38	10
Lead	3.4		0.19		mg/Kg	☼	09/17/12 07:28	09/17/12 12:38	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10		%			09/17/12 12:15	1
Percent Moisture	5.0		0.10		%			09/17/12 12:15	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: C7-EN
Date Collected: 09/10/12 15:30
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-35
Matrix: Solid
Percent Solids: 95.7

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.5		0.47		mg/Kg	☼	09/17/12 07:28	09/17/12 12:41	10
Lead	2.4		0.19		mg/Kg	☼	09/17/12 07:28	09/17/12 12:41	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96		0.10		%			09/17/12 12:15	1
Percent Moisture	4.3		0.10		%			09/17/12 12:15	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: C8-E
Date Collected: 09/10/12 16:18
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-36
Matrix: Solid
Percent Solids: 88.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.0		0.48		mg/Kg	☼	09/17/12 07:28	09/17/12 12:45	10
Lead	85		0.19		mg/Kg	☼	09/17/12 07:28	09/17/12 12:45	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89		0.10		%			09/17/12 12:15	1
Percent Moisture	11		0.10		%			09/17/12 12:15	1

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: C9-ES
Date Collected: 09/10/12 16:40
Date Received: 09/11/12 15:35

Lab Sample ID: 580-34879-37
Matrix: Solid
Percent Solids: 92.3

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.9		0.50		mg/Kg	☼	09/17/12 07:28	09/17/12 12:48	10
Lead	310		0.20		mg/Kg	☼	09/17/12 07:28	09/17/12 12:48	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92		0.10		%			09/17/12 12:15	1
Percent Moisture	7.7		0.10		%			09/17/12 12:15	1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 580-119991/22-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120157 — **Prep Batch: 119991**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.50		mg/Kg		09/13/12 12:31	09/14/12 13:03	10
Lead	ND		0.20		mg/Kg		09/13/12 12:31	09/14/12 13:03	10

Lab Sample ID: LCS 580-119991/23-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120157 — **Prep Batch: 119991**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	200	195		mg/Kg		98	80 - 120
Lead	50.0	48.2		mg/Kg		96	80 - 120

Lab Sample ID: LCSD 580-119991/24-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120157 — **Prep Batch: 119991**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	200	198		mg/Kg		99	80 - 120	1	20
Lead	50.0	48.5		mg/Kg		97	80 - 120	1	20

Lab Sample ID: 580-34879-1 MS — **Client Sample ID: A1-NW**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120157 — **Prep Batch: 119991**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	46		250	295		mg/Kg	☼	99	80 - 120
Lead	240		62.5	296		mg/Kg	☼	87	80 - 120

Lab Sample ID: 580-34879-1 MSD — **Client Sample ID: A1-NW**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120157 — **Prep Batch: 119991**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	46		242	330		mg/Kg	☼	117	80 - 120	11	20
Lead	240		60.5	335	F	mg/Kg	☼	155	80 - 120	12	20

Lab Sample ID: 580-34879-1 DU — **Client Sample ID: A1-NW**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120157 — **Prep Batch: 119991**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	46		49.0		mg/Kg	☼	6	20
Lead	240		256		mg/Kg	☼	6	20

Lab Sample ID: MB 580-120106/23-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120278 — **Prep Batch: 120106**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.50		mg/Kg		09/17/12 07:28	09/17/12 11:00	10
Lead	ND		0.20		mg/Kg		09/17/12 07:28	09/17/12 11:00	10

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-120106/24-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120278 — **Prep Batch: 120106**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	200	207		mg/Kg		104	80 - 120
Lead	50.0	49.5		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 580-120106/25-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120278 — **Prep Batch: 120106**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	200	207		mg/Kg		104	80 - 120	0	20
Lead	50.0	49.9		mg/Kg		100	80 - 120	1	20

Lab Sample ID: 580-34879-19 MS — **Client Sample ID: B10-S**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120278 — **Prep Batch: 120106**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5.0		199	229		mg/Kg	☼	112	80 - 120
Lead	5.5		49.8	59.2		mg/Kg	☼	108	80 - 120

Lab Sample ID: 580-34879-19 MSD — **Client Sample ID: B10-S**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120278 — **Prep Batch: 120106**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	5.0		195	227		mg/Kg	☼	114	80 - 120	1	20
Lead	5.5		48.8	59.5		mg/Kg	☼	111	80 - 120	1	20

Lab Sample ID: 580-34879-19 DU — **Client Sample ID: B10-S**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120278 — **Prep Batch: 120106**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	5.0		4.99		mg/Kg	☼	0.8	20
Lead	5.5		5.41		mg/Kg	☼	0.9	20

Method: D 2216 - Percent Moisture

Lab Sample ID: 580-34965-A-13 DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120206

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	79		79		%		0.6	20
Percent Moisture	21		21		%		2	20

Lab Sample ID: 580-34879-4 DU — **Client Sample ID: A4-ES**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120210

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	80		77		%		4	20

Method: D 2216 - Percent Moisture (Continued)

Lab Sample ID: 580-34879-4 DU
Matrix: Solid
Analysis Batch: 120210

Client Sample ID: A4-ES
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	20			23		%				15	20

Lab Sample ID: 580-34879-24 DU
Matrix: Solid
Analysis Batch: 120216

Client Sample ID: C1-WS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	94			95		%				0.9	20
Percent Moisture	6.3			5.5		%				14	20

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: A1-NW

Lab Sample ID: 580-34879-1

Date Collected: 09/05/12 10:30
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			119991	09/13/12 12:31	ZF	TAL SEA
Total/NA	Analysis	6020		10	120157	09/14/12 13:10	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120206	09/17/12 11:06	RS	TAL SEA

Client Sample ID: A2-NE

Lab Sample ID: 580-34879-2

Date Collected: 09/05/12 10:45
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			119991	09/13/12 12:31	ZF	TAL SEA
Total/NA	Analysis	6020		10	120157	09/14/12 13:42	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120206	09/17/12 11:06	RS	TAL SEA

Client Sample ID: A3-EN

Lab Sample ID: 580-34879-3

Date Collected: 09/05/12 11:20
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			119991	09/13/12 12:31	ZF	TAL SEA
Total/NA	Analysis	6020		10	120157	09/14/12 13:46	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120206	09/17/12 11:06	RS	TAL SEA

Client Sample ID: A4-ES

Lab Sample ID: 580-34879-4

Date Collected: 09/05/12 11:20
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			119991	09/13/12 12:31	ZF	TAL SEA
Total/NA	Analysis	6020		10	120157	09/14/12 13:50	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120210	09/17/12 11:30	RS	TAL SEA

Client Sample ID: A5-SE

Lab Sample ID: 580-34879-5

Date Collected: 09/05/12 12:20
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 67.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			119991	09/13/12 12:31	ZF	TAL SEA
Total/NA	Analysis	6020		10	120157	09/14/12 13:53	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120210	09/17/12 11:30	RS	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: A6-SW

Lab Sample ID: 580-34879-6

Date Collected: 09/05/12 13:45
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			119991	09/13/12 12:31	ZF	TAL SEA
Total/NA	Analysis	6020		10	120157	09/14/12 13:57	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120210	09/17/12 11:30	RS	TAL SEA

Client Sample ID: A7-WS

Lab Sample ID: 580-34879-7

Date Collected: 09/05/12 13:50
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 62.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			119991	09/13/12 12:31	ZF	TAL SEA
Total/NA	Analysis	6020		10	120157	09/14/12 14:00	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120210	09/17/12 11:30	RS	TAL SEA

Client Sample ID: A8-WN

Lab Sample ID: 580-34879-8

Date Collected: 09/05/12 13:05
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 65.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			119991	09/13/12 12:31	ZF	TAL SEA
Total/NA	Analysis	6020		10	120157	09/14/12 14:04	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120210	09/17/12 11:30	RS	TAL SEA

Client Sample ID: A-DUP-1

Lab Sample ID: 580-34879-9

Date Collected: 09/05/12 11:20
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 73.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			119991	09/13/12 12:31	ZF	TAL SEA
Total/NA	Analysis	6020		10	120157	09/14/12 14:07	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120210	09/17/12 11:30	RS	TAL SEA

Client Sample ID: B1-WS

Lab Sample ID: 580-34879-10

Date Collected: 09/06/12 13:09
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			119991	09/13/12 12:31	ZF	TAL SEA
Total/NA	Analysis	6020		10	120157	09/14/12 14:11	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120210	09/17/12 11:30	RS	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: B2-WN

Lab Sample ID: 580-34879-11

Date Collected: 09/06/12 13:20
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			119991	09/13/12 12:31	ZF	TAL SEA
Total/NA	Analysis	6020		10	120157	09/14/12 14:14	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120210	09/17/12 11:30	RS	TAL SEA

Client Sample ID: B3-NW

Lab Sample ID: 580-34879-12

Date Collected: 09/06/12 13:58
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			119991	09/13/12 12:31	ZF	TAL SEA
Total/NA	Analysis	6020		10	120157	09/14/12 14:25	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120210	09/17/12 11:30	RS	TAL SEA

Client Sample ID: B4-N

Lab Sample ID: 580-34879-13

Date Collected: 09/06/12 14:10
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			119991	09/13/12 12:31	ZF	TAL SEA
Total/NA	Analysis	6020		10	120157	09/14/12 14:29	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120210	09/17/12 11:30	RS	TAL SEA

Client Sample ID: B5-N

Lab Sample ID: 580-34879-14

Date Collected: 09/06/12 14:15
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			119991	09/13/12 12:31	ZF	TAL SEA
Total/NA	Analysis	6020		10	120157	09/14/12 14:33	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120210	09/17/12 11:30	RS	TAL SEA

Client Sample ID: B6-NE

Lab Sample ID: 580-34879-15

Date Collected: 09/06/12 14:49
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			119991	09/13/12 12:31	ZF	TAL SEA
Total/NA	Analysis	6020		10	120157	09/14/12 14:36	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120210	09/17/12 11:30	RS	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: B7-EN

Lab Sample ID: 580-34879-16

Date Collected: 09/06/12 15:51
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			119991	09/13/12 12:31	ZF	TAL SEA
Total/NA	Analysis	6020		10	120157	09/14/12 14:40	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120210	09/17/12 11:30	RS	TAL SEA

Client Sample ID: B8-ES

Lab Sample ID: 580-34879-17

Date Collected: 09/06/12 15:51
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			119991	09/13/12 12:31	ZF	TAL SEA
Total/NA	Analysis	6020		10	120157	09/14/12 14:43	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120210	09/17/12 11:30	RS	TAL SEA

Client Sample ID: B9-SE

Lab Sample ID: 580-34879-18

Date Collected: 09/06/12 14:49
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			119991	09/13/12 12:31	ZF	TAL SEA
Total/NA	Analysis	6020		10	120157	09/14/12 14:47	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120210	09/17/12 11:30	RS	TAL SEA

Client Sample ID: B10-S

Lab Sample ID: 580-34879-19

Date Collected: 09/06/12 14:45
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120106	09/17/12 07:28	RL	TAL SEA
Total/NA	Analysis	6020		10	120278	09/17/12 11:15	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120210	09/17/12 11:30	RS	TAL SEA

Client Sample ID: B11-S

Lab Sample ID: 580-34879-20

Date Collected: 09/06/12 14:40
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120106	09/17/12 07:28	RL	TAL SEA
Total/NA	Analysis	6020		10	120278	09/17/12 11:40	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120210	09/17/12 11:30	RS	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: B12-SW

Lab Sample ID: 580-34879-21

Date Collected: 09/06/12 14:34
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120106	09/17/12 07:28	RL	TAL SEA
Total/NA	Analysis	6020		10	120278	09/17/12 11:44	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120210	09/17/12 11:30	RS	TAL SEA

Client Sample ID: B-DUP-1

Lab Sample ID: 580-34879-22

Date Collected: 09/06/12 14:49
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 72.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120106	09/17/12 07:28	RL	TAL SEA
Total/NA	Analysis	6020		10	120278	09/17/12 11:47	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120210	09/17/12 11:30	RS	TAL SEA

Client Sample ID: B-DUP-2

Lab Sample ID: 580-34879-23

Date Collected: 09/06/12 14:49
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120106	09/17/12 07:28	RL	TAL SEA
Total/NA	Analysis	6020		10	120278	09/17/12 11:51	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120210	09/17/12 11:30	RS	TAL SEA

Client Sample ID: C1-WS

Lab Sample ID: 580-34879-24

Date Collected: 09/07/12 14:12
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120106	09/17/12 07:28	RL	TAL SEA
Total/NA	Analysis	6020		10	120278	09/17/12 11:54	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120216	09/17/12 12:15	RS	TAL SEA

Client Sample ID: C-DUP-1

Lab Sample ID: 580-34879-25

Date Collected: 09/07/12 14:12
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120106	09/17/12 07:28	RL	TAL SEA
Total/NA	Analysis	6020		10	120278	09/17/12 11:58	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120216	09/17/12 12:15	RS	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: C2-W

Lab Sample ID: 580-34879-26

Date Collected: 09/07/12 14:12
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120106	09/17/12 07:28	RL	TAL SEA
Total/NA	Analysis	6020		10	120278	09/17/12 12:02	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120216	09/17/12 12:15	RS	TAL SEA

Client Sample ID: C3-WN

Lab Sample ID: 580-34879-27

Date Collected: 09/07/12 14:12
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120106	09/17/12 07:28	RL	TAL SEA
Total/NA	Analysis	6020		10	120278	09/17/12 12:05	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120216	09/17/12 12:15	RS	TAL SEA

Client Sample ID: C12-SW

Lab Sample ID: 580-34879-28

Date Collected: 09/07/12 15:10
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120106	09/17/12 07:28	RL	TAL SEA
Total/NA	Analysis	6020		10	120278	09/17/12 12:09	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120216	09/17/12 12:15	RS	TAL SEA

Client Sample ID: C11-S

Lab Sample ID: 580-34879-29

Date Collected: 09/10/12 13:58
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120106	09/17/12 07:28	RL	TAL SEA
Total/NA	Analysis	6020		10	120278	09/17/12 12:52	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120216	09/17/12 12:15	RS	TAL SEA

Client Sample ID: C10-SE

Lab Sample ID: 580-34879-30

Date Collected: 09/10/12 13:58
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120106	09/17/12 07:28	RL	TAL SEA
Total/NA	Analysis	6020		10	120278	09/17/12 12:23	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120216	09/17/12 12:15	RS	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: C-DUP-2

Lab Sample ID: 580-34879-31

Date Collected: 09/10/12 13:58
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120106	09/17/12 07:28	RL	TAL SEA
Total/NA	Analysis	6020		10	120278	09/17/12 12:27	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120216	09/17/12 12:15	RS	TAL SEA

Client Sample ID: C4-NW

Lab Sample ID: 580-34879-32

Date Collected: 09/10/12 14:10
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120106	09/17/12 07:28	RL	TAL SEA
Total/NA	Analysis	6020		10	120278	09/17/12 12:30	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120216	09/17/12 12:15	RS	TAL SEA

Client Sample ID: C5-N

Lab Sample ID: 580-34879-33

Date Collected: 09/10/12 14:10
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120106	09/17/12 07:28	RL	TAL SEA
Total/NA	Analysis	6020		10	120278	09/17/12 12:34	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120216	09/17/12 12:15	RS	TAL SEA

Client Sample ID: C6-NE

Lab Sample ID: 580-34879-34

Date Collected: 09/10/12 14:10
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 95.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120106	09/17/12 07:28	RL	TAL SEA
Total/NA	Analysis	6020		10	120278	09/17/12 12:38	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120216	09/17/12 12:15	RS	TAL SEA

Client Sample ID: C7-EN

Lab Sample ID: 580-34879-35

Date Collected: 09/10/12 15:30
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120106	09/17/12 07:28	RL	TAL SEA
Total/NA	Analysis	6020		10	120278	09/17/12 12:41	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120216	09/17/12 12:15	RS	TAL SEA

Lab Chronicle

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Client Sample ID: C8-E

Lab Sample ID: 580-34879-36

Date Collected: 09/10/12 16:18
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120106	09/17/12 07:28	RL	TAL SEA
Total/NA	Analysis	6020		10	120278	09/17/12 12:45	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120216	09/17/12 12:15	RS	TAL SEA

Client Sample ID: C9-ES

Lab Sample ID: 580-34879-37

Date Collected: 09/10/12 16:40
Matrix: Solid
Date Received: 09/11/12 15:35
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120106	09/17/12 07:28	RL	TAL SEA
Total/NA	Analysis	6020		10	120278	09/17/12 12:48	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	120216	09/17/12 12:15	RS	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 Metals Excavation

TestAmerica Job ID: 580-34879-1

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	03-04-13
California	NELAC	9	1115CA	01-31-13
L-A-B	DoD ELAP		L2236	01-19-13
L-A-B	ISO/IEC 17025		L2236	01-19-13
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAC	10	WA100007	11-06-12
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-13

Sample Summary

Client: Farallon Consulting LLC
Project/Site: Skykomish Metals Excavation

TestAmerica Job ID: 580-34879-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-34879-1	A1-NW	Solid	09/05/12 10:30	09/11/12 15:35
580-34879-2	A2-NE	Solid	09/05/12 10:45	09/11/12 15:35
580-34879-3	A3-EN	Solid	09/05/12 11:20	09/11/12 15:35
580-34879-4	A4-ES	Solid	09/05/12 11:20	09/11/12 15:35
580-34879-5	A5-SE	Solid	09/05/12 12:20	09/11/12 15:35
580-34879-6	A6-SW	Solid	09/05/12 13:45	09/11/12 15:35
580-34879-7	A7-WS	Solid	09/05/12 13:50	09/11/12 15:35
580-34879-8	A8-WN	Solid	09/05/12 13:05	09/11/12 15:35
580-34879-9	A-DUP-1	Solid	09/05/12 11:20	09/11/12 15:35
580-34879-10	B1-WS	Solid	09/06/12 13:09	09/11/12 15:35
580-34879-11	B2-WN	Solid	09/06/12 13:20	09/11/12 15:35
580-34879-12	B3-NW	Solid	09/06/12 13:58	09/11/12 15:35
580-34879-13	B4-N	Solid	09/06/12 14:10	09/11/12 15:35
580-34879-14	B5-N	Solid	09/06/12 14:15	09/11/12 15:35
580-34879-15	B6-NE	Solid	09/06/12 14:49	09/11/12 15:35
580-34879-16	B7-EN	Solid	09/06/12 15:51	09/11/12 15:35
580-34879-17	B8-ES	Solid	09/06/12 15:51	09/11/12 15:35
580-34879-18	B9-SE	Solid	09/06/12 14:49	09/11/12 15:35
580-34879-19	B10-S	Solid	09/06/12 14:45	09/11/12 15:35
580-34879-20	B11-S	Solid	09/06/12 14:40	09/11/12 15:35
580-34879-21	B12-SW	Solid	09/06/12 14:34	09/11/12 15:35
580-34879-22	B-DUP-1	Solid	09/06/12 14:49	09/11/12 15:35
580-34879-23	B-DUP-2	Solid	09/06/12 14:49	09/11/12 15:35
580-34879-24	C1-WS	Solid	09/07/12 14:12	09/11/12 15:35
580-34879-25	C-DUP-1	Solid	09/07/12 14:12	09/11/12 15:35
580-34879-26	C2-W	Solid	09/07/12 14:12	09/11/12 15:35
580-34879-27	C3-WN	Solid	09/07/12 14:12	09/11/12 15:35
580-34879-28	C12-SW	Solid	09/07/12 15:10	09/11/12 15:35
580-34879-29	C11-S	Solid	09/10/12 13:58	09/11/12 15:35
580-34879-30	C10-SE	Solid	09/10/12 13:58	09/11/12 15:35
580-34879-31	C-DUP-2	Solid	09/10/12 13:58	09/11/12 15:35
580-34879-32	C4-NW	Solid	09/10/12 14:10	09/11/12 15:35
580-34879-33	C5-N	Solid	09/10/12 14:10	09/11/12 15:35
580-34879-34	C6-NE	Solid	09/10/12 14:10	09/11/12 15:35
580-34879-35	C7-EN	Solid	09/10/12 15:30	09/11/12 15:35
580-34879-36	C8-E	Solid	09/10/12 16:18	09/11/12 15:35
580-34879-37	C9-ES	Solid	09/10/12 16:40	09/11/12 15:35

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: TEST AMERICA | Project Manager: KRIS Allen
Address: | Phone:
City/State/ZIP: | Fax:

LAB WORK ORDER: 34879

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WA
Project City: SKYKOMISH
BNSF Project Name: SKYKOMISH METALS EXCAVATION
BNSF Contact:
BNSF Work Order No.:

CONSULTANT INFORMATION

Company: Foraillon Consulting
Address: ~~Issaquah~~ 975 5TH AVE NE
City/State/ZIP: Issaquah, WA 98027
Project Number: 653-043
Project Manager: Jerry Parkle
Email:
Phone: 425-295-0800 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	EPA 6020 Pb, As	COMMENTS	LAB USE
1	A1-NW	1	9/5/12	1030			G	S	X		
2	A2-NE	1	9/5/12	1045			G	S	X		
3	A3-EN	1	9/5/12	1120			G	S	X		
4	A4-ES	1	9/5/12	1120			G	S	X		
5	A5-SE	1	9/5/12	1220			G	S	X		
6	A6-SW	1	9/5/12	1345			G	S	X		
7	A7-WS	1	9/5/12	1350			G	S	X		
8	A8-WN	1	9/5/12	1305			G	S	X		
9	A-DUP-1	1	9/5/12	1120			G	S	X		
10											
11											
12											
13											
14											
15											

Cooler/TB Dig/IR cor 1.1 °C unc 1.2 °C
Cooler Dsc Intact/wb @ Lab 1535
Wet/Packs Packing Bubble
w/ice

Relinquished By:	Date/Time: 9/10/12 1925	Received By:	Date/Time: 9/11/12 1535
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 (06/08)

9/18/2012

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

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

LAB WORK ORDER: 34879

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

BNSF PROJECT INFORMATION

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

CONSULTANT INFORMATION

Company: Farallon Consulting
Address: 975 5th Avenue Northwest
City/State/ZIP: Issaquah, WA 98027
Project Number: 683-043
Project Manager: Jenny Partelo
Email:
Phone: 425-295-0800 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: EPA 6020 Pb, As	COMMENTS	LAB USE
10	1 B1-WS	1	9/6/12	1309			G	S	X		
11	2 B2-WN	1		1320			G	S	X		
12	3 B3-NW	1		1358			G	S	X		
13	4 B4-N	1		1410			G	S	X		
14	5 B5-N	1		1415			G	S	X		
15	6 B6-NE	1		1449			G	S	X		
16	7 B7-EN	1		1551			G	S	X		
17	8 B8-ES	1		1551			G	S	X		
18	9 B9-SE	1		1449			G	S	X		
19	10 B10-S	1		1445			G	S	X		
20	11 B11-S	1		1440			G	S	X		
21	12 B12-SW	1		1434			G	S	X		
22	13 B-DUP-1	1		1449			G	S	X		
23	14 B-DUP-2	1	▽	1449			G	S	X		
	15										

Relinquished By: Paul Johnson	Date/Time: 9/10/12 9:25	Received By:	Date/Time: 9/11/12 1535	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 (06/08)

9/18/2012

BNSF RAILWAY

CHAIN OF CUSTODY

LAB WORK ORDER: 34879

LABORATORY INFORMATION

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

SHIPMENT INFORMATION

Shipment Method:
Tracking Number:

9/18/2012

BNSF PROJECT INFORMATION

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

CONSULTANT INFORMATION

Company: Farallon Consulting
Project Number: 683-043
Project Manager: Jerry Portele
Address: 975 NE 54TH AVENUE
Email:
City/State/ZIP: Issaquah, WA 98027
Phone: 425-295-0800
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

EPA 6020 RCRA's

SAMPLE INFORMATION

	Sample Identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	EPA 6020 RCRA's	COMMENTS	LAB USE
24	1 C1-WS	1	9/7/12	1412			G	S	X		
25	2 C-DUP-1	1	9/7/12	1412			G	S	X		
26	3 C2-W	1	9/7/12	1412			G	S	X		
27	4 C3-WN	1	9/7/12	1412			G	S	X		
28	5 C12-SW	1	9/7/12	1510			G	S	X		
29	6 C11-S	1	9/10/12	1358			G	S	X		
30	7 C10-SE	1	9/10/12	1358			G	S	X		
31	8 C-DUP-2	1	9/10/12	1358			G	S	X		
32	9 C4-NW	1	9/10/12	1410			G	S	X		
33	10 C5-N	1	9/10/12	1410			G	S	X		
34	11 C6-NE	1	9/10/12	1410			G	S	X		
35	12 C7-EN	1	9/10/12	1530			G	S	X		
36	13 C8-E	1	9/10/12	1618			G	S	X		
37	14 C9-ES	1	9/10/12	1640			G	S	X		
	15										

Relinquished By:	Date/Time: 9/10/12 1925	Received By:	Date/Time: 9/11/12 1535	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 (06/08)

Login Sample Receipt Checklist

Client: Farallon Consulting LLC

Job Number: 580-34879-1

Login Number: 34879

List Source: TestAmerica Seattle

List Number: 1

Creator: Riley, Nicole

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	This information is not filled out on the 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.