

CLEANUP ACTION SUMMARY REPORT

**ED'S TRANSMISSIONS
10226 STATE AVENUE
MARYSVILLE, WASHINGTON**

**Submitted by:
Farallon Consulting, L.L.C.
975 5th Avenue Northwest
Issaquah, Washington 98027
Farallon PN: 1160-001**

**For:
Mr. Richard O. Matson
R.O.M. Holdings
4203 81st Place Northeast
Marysville, Washington 98271**

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Prepared by:



Javan Ruark, G.I.T.
Project Geologist

Reviewed by:



Jeffrey Kaspar, L.G., L.H.G.
Senior Project Manager



Peter Jewett L.G., L.E.G.
Principal Engineering Geologist



TABLE OF CONTENTS

1.0	INTRODUCTION.....	1-1
1.1	ORGANIZATION	1-1
2.0	PROPERTY DESCRIPTION AND BACKGROUND.....	2-1
2.1	PROPERTY LOCATION AND DESCRIPTION	2-1
2.2	GEOLOGY AND HYDROGEOLOGY	2-1
2.3	PREVIOUS ENVIRONMENTAL INVESTIGATIONS	2-2
2.3.1	Snohomish Health District—1999	2-2
2.3.2	Farallon Consulting—2012.....	2-2
3.0	CLEANUP STANDARDS.....	3-1
3.1	CONSTITUENT OF CONCERN.....	3-1
3.2	MEDIUM OF CONCERN.....	3-1
3.3	CLEANUP STANDARDS	3-1
3.3.1	Cleanup Level	3-2
3.3.2	Point of Compliance	3-2
3.3.3	Terrestrial Ecological Evaluation	3-2
4.0	CLEANUP ACTION	4-1
4.1	PROJECT PLANNING	4-1
4.2	CLEANUP ACTION	4-1
4.3	TERRESTRIAL ECOLOGICAL EVALUATION	4-3
5.0	CONCLUSIONS	5-1
6.0	REFERENCES.....	6-1
7.0	LIMITATIONS.....	7-1

FIGURES

- Figure 1 *Property Vicinity Map*
Figure 2 *Property Map Showing Boring Locations*
Figure 3 *Site Plan Showing Confirmation Soil Sample Locations*

TABLES

- Table 1 *Confirmation Soil Analytical Results for Lead*
Table 2 *Performance Soil Analytical Results*
Table 3 *Waste Profile Soil Analytical Results*



APPENDICES

- Appendix A Site Photographs
- Appendix B Previous Environmental Investigation Reports
- Appendix C Laboratory Analytical Reports (Provided on Compact Disc in Print Report)
- Appendix D Waste Disposal Documentation
- Appendix E Table 749-1 Simplified Terrestrial Ecological Evaluation



ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
Clearcreek	Clearcreek Contractors, Inc. of Everett, Washington
Cr(III)	trivalent chromium
Cr(VI)	hexavalent chromium
DRO	total petroleum hydrocarbons as diesel-range organics
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
Farallon	Farallon Consulting, L.L.C.
HVOCS	halogenated volatile organic compounds
mg/kg	milligrams per kilogram
MTCA	Washington State Model Toxics Control Act Cleanup Regulation
NFA	No Further Action
ORO	total petroleum hydrocarbons as oil-range organics
SHD	Snohomish Health District
Property	Ed's Transmissions property at 10226 State Avenue in Marysville, Washington
Site	Area with soil containig concentrations of Lead exceeding th MTCA Method A cleanup level
TCLP	Toxicity Characteristic Leaching Procedure
TEE	Terrestrial Ecological Evaluation
TPH	total petroleum hydrocarbons
WAC	Washington Administrative Code



1.0 INTRODUCTION

Farallon Consulting, L.L.C. (Farallon) has prepared this Cleanup Action Summary Report to document completion of the cleanup action conducted at the Ed's Transmissions property at 10226 State Avenue in Marysville, Washington (herein referred to as the Property) (Figures 1 and 2). The cleanup action was conducted as an independent remedial action in accordance with the provisions of the Washington State Model Toxics Control Act Cleanup Regulation (MTCA), as established in Chapter 173-340 of the Washington Administrative Code (WAC 173-340). The cleanup action included excavation of soil containing concentrations of lead exceeding the MTCA Method A cleanup level and off-Property disposal of soil containing total petroleum hydrocarbons (TPH) as oil-range organics (ORO), cadmium, and lead at the Site.

Operations on the Property have included automotive repair and maintenance from 1969 to the present. The current automotive repair building on the Property was constructed in 1980 following removal of the original service garage building. ORO, cadmium, and lead were detected at concentrations exceeding MTCA cleanup levels in soil samples collected on the Property by the Snohomish Health District (SHD) (2000).

The cleanup action was conducted by R.O.M. Holdings to meet the Washington State Department of Ecology (Ecology) requirements for a No Further Action (NFA) determination for the Property. This Cleanup Action Summary Report is being submitted with an application for enrollment in the Ecology Voluntary Cleanup Program (VCP) and a request for an NFA determination from Ecology.

1.1 ORGANIZATION

This Cleanup Action Summary Report has been organized into the following sections:

- **Section 1—Introduction:** Section 1 presents an introduction to the Property, the purpose of the cleanup action, and the organization of the report.
- **Section 2—Property Description and Background:** Section 2 provides information on the Property location, history, and geology, and a summary of previous investigations completed at the Property.
- **Section 3—Cleanup Standards:** Section 3 provides a summary of the technical elements for the cleanup action, including a discussion of the constituent and medium of concern, the cleanup level, and the point of compliance.
- **Section 4—Cleanup Action:** Section 4 provides a discussion of the soil excavation, compliance sampling, soil analytical results, and restoration efforts completed at the Site. Section 4 also includes a discussion of the Terrestrial Ecological Evaluation (TEE) requirement for a cleanup action.



- **Section 5—Conclusions:** Section 5 provides the conclusions derived from the cleanup action completed at the Site, and rationale to support a request for an NFA determination for the Site.
- **Section 6—References:** Section 6 contains a list of documents cited in this report.
- **Section 7—Limitations:** Section 7 presents Farallon’s standard limitations with respect to the cleanup action and this report.



2.0 PROPERTY DESCRIPTION AND BACKGROUND

This section provides a description of the Property and vicinity, a summary of local geology and hydrogeology, and a summary of previous environmental investigations conducted at the Property by SHD (2000) and Farallon (2013).

2.1 PROPERTY LOCATION AND DESCRIPTION

The Property is located in a commercial area of Marysville, Washington (Figure 1). Operations on the Property have included automotive repair and service from 1969 to the present. The Property is developed with a building constructed in 1980 within the same footprint as the previous building, which had been demolished and removed (Figure 2). The eastern portion of the Property is paved with asphalt ranging in thickness from 1 to 2 inches. The western portion of the Property is unpaved, with coarse gravel at the surface. Tires and other automotive parts are stored on concrete on the west side of the building.

Current operations on the Property include automotive repair and maintenance. No welding is conducted at the Property. Utilities at the Property include overhead electrical power, municipal water, a septic system, and a stormwater system.

The excavation for soil removal exposed a 3-inch-diameter polyvinyl chloride (PVC) perforated drain pipe associated with the stormwater system (DP1); a 3-inch-diameter PVC septic pipe at a depth of 2 feet below ground surface (bgs) along the western boundary of the Property (DP2); and a 1-inch-diameter PVC water pipe at a depth of 2 feet bgs along the western exterior of the Property building (Figure 3). An abandoned perforated PVC drain pipe exited the northwestern corner of the Property building at a depth 2 feet bgs (DP3). The source of drain pipe DP3 could not be traced to a floor drain in the Property building.

Property photographs showing the drain pipes are provided in Appendix A. A Property representative indicated that stormwater ponds on the northwestern corner of the Property during storm events (Farallon 2013).

2.2 GEOLOGY AND HYDROGEOLOGY

Based on regional well logs for the area, subsurface soil consists of sand to silty sand from the surface to 25 feet bgs, clay and sand from 25 to 37 feet bgs, sand and silty sand from 37 to 62 feet bgs, and clay from 62 to 66 feet bgs. Groundwater was encountered at 25 to 32 feet bgs in wells located within .5 miles of the Property. (Al Torie Well Digging 1978). According to the Site Hazard Assessment conducted by the SHD in 1999, the vertical depth to groundwater was 45 feet bgs (SHD 2000).



2.3 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

Previous investigations at the Property were performed by SHD (2000) and Farallon (2013) (Appendix B). A summary of the investigations is provided below.

2.3.1 Snohomish Health District—1999

As documented by SHD (2000), a Property investigation was conducted by Ecology in 1992 to evaluate a complaint of improper disposal of waste oil on the ground surface at the Property. Ecology subsequently included the Property on the Confirmed and Suspected Contaminated Sites list for the following issues (SHD 2000):

- Confirmed release(s) of petroleum products to soil, based on observed surficial oil staining;
- Suspected halogenated volatile organic compounds (HVOCs) and metals in soil, groundwater, surface water, air, and sediments, based on the potential for the presence of these hazardous substances at the Property; and
- Suspected petroleum products in groundwater, surface water, air, and sediments, based on the potential for the presence of these hazardous substances at the Property.

A Site Hazard Assessment was completed by SHD (2000) on behalf of Ecology to investigate waste management activities and environmental data to determine a hazard ranking for the Property. ORO (identified by the laboratory as hydraulic oil), cadmium, chromium, and lead were detected at concentrations exceeding MTCA Method A cleanup levels in one or more of three surface soil samples and one subsurface soil sample collected from the area along the western, unpaved portion of the Property. However, the Site Hazard Assessment did not request speciation of the chromium detected. Therefore, it is unknown whether the chromium detected is trivalent chromium (Cr[III]) or hexavalent chromium (Cr[VI]). Volatile organic compounds were not detected in the soil samples collected. A Hazard Ranking of 4 was assigned to the Property on a scale of 1 representing the highest risk and 5 the lowest (SHD 2000). Neither Ecology nor SHD recommended further action at that time. The Property is currently on the Ecology Hazardous Sites List with the notation “Awaiting Cleanup.”

2.3.2 Farallon Consulting—2012

Farallon (2013) conducted a subsurface investigation in December 2012 that included advancement of borings SB-1 through SB-5 to depths ranging from 7 to 15 bgs, and collection and laboratory analysis of soil samples and a reconnaissance groundwater sample (Figure 2). No obvious visual or olfactory signs of contamination were noted during the subsurface investigation. The soil and reconnaissance samples were submitted to OnSite Environmental Inc. of Redmond, Washington for analysis for ORO, TPH as diesel-range organics (DRO), HVOCS, and the MTCA metals arsenic, cadmium, chromium, lead, and mercury.

ORO and lead were detected at concentrations less than MTCA Method A cleanup levels in soil samples collected from the southwestern portion of the Property proximate to the area where



these constituents were detected by SHD (2000) at concentrations exceeding MTCA Method A cleanup levels. Lead was detected at concentrations exceeding the MTCA Method A cleanup level in shallow soil samples collected from boring SB-1 near the northwestern corner of the Property. ORO, cadmium, or lead were not detected at concentrations exceeding MTCA Method A cleanup levels in samples collected from any other locations at the Property. Total chromium was detected at concentrations less than the MTCA Method A cleanup level for Cr(III) but exceeded the cleanup level for Cr(VI). Farallon did not speciate chromium because no historical Property information was identified supporting a process that would generate Cr(VI), and the Site Hazard Assessment did not identify Cr(VI) as a constituent of potential concern. The remaining analytes were not detected at concentrations exceeding MTCA Method A cleanup levels in the soil samples analyzed, or were not detected at concentrations at or exceeding the laboratory reporting limits.

ORO, cadmium, and lead were detected at concentrations exceeding MTCA Method A cleanup levels in the reconnaissance groundwater sample collected from boring SB-1 (Figure 2). The water encountered represents a perched zone associated with ponding of stormwater that infiltrated the shallow soil in the low topographic area.

Farallon (2013) concluded that regional groundwater is not impacted, based on the following:

- Well logs for monitoring wells proximate to the Property measured groundwater at 25 to 32 feet bgs in wells located within 0.5 mile of the Property (Al Torie Well Digging 1978). The Site Hazard Assessment indicated that the vertical depth to groundwater was 45 feet bgs (SHD 2000).
- Soil conditions encountered at the Property included dense till that limits infiltration of surface water.
- ORO, cadmium, and lead were not detected at concentrations exceeding MTCA Method A cleanup levels in the soil sample collected at depth in the boring near the northwestern corner of the Property.
- Groundwater was not encountered in the other four borings advanced by Farallon (2013).

Farallon (2013) concluded that releases of ORO, cadmium, and lead to perched groundwater are limited to the small area of shallow perched groundwater in the northwestern corner of the Property. The perched groundwater likely is the result of infiltration from ponding of stormwater runoff from the Property in the same area where lead was detected at concentrations exceeding the MTCA Method A cleanup level in shallow soil. ORO, cadmium, and lead were not detected at concentrations exceeding MTCA Method A cleanup levels or the laboratory practical quantitation limit in the other soil samples analyzed, including the soil samples collected from areas where exceedances of MTCA Method A cleanup levels were reported by SHD (2000).



3.0 CLEANUP STANDARDS

This section discusses the constituent and medium of concern, and the cleanup standards for the Site, including the cleanup level and the point of compliance. These cleanup standards were used to guide the cleanup action completed at the Site.

3.1 CONSTITUENT OF CONCERN

Lead is the constituent of concern (COC) for the Site based on concentrations exceeding the MTCA Method A soil cleanup level for unrestricted land uses in soil samples collected by SHD (2000) and Farallon (2013). ORO and cadmium were not detected at concentrations exceeding MTCA Method A soil cleanup levels in soil samples collected by Farallon (2013); therefore, ORO and cadmium were not considered to be COCs for the Site. Chromium was identified as a COC for the Property. Ecology further requested that chromium be speciated at a minimum of one location where historical soil data indicates the presence of chromium to determine whether Cr(III) and/or Cr(VI) are COCs. Analytical testing presented in Section 4.2 indicated that neither Cr(III) nor Cr(VI) are COCs.

3.2 MEDIUM OF CONCERN

Soil is the medium of concern for the Site (Farallon 2013). Groundwater was not encountered in borings completed at the Property to a total depth of 15 feet bgs (Farallon 2013). Well logs for the area measured the depth to groundwater at approximately 25 to 32 feet bgs in wells located within 0.5 mile of the Property (Al Torie Well Digging 1978). According the Site Hazard Assessment conducted by the SHD in 1999, the vertical depth to groundwater was 45 feet bgs (SHD 2000).

A perched-water zone was encountered at a depth of 4.5 feet bgs at boring SB-1. Infiltration of significant ponding of stormwater at this low topographic area of the Site appears to be the source of the perched water. Groundwater was not encountered during excavation activities which extended to 8 feet bgs.

Lead was not detected at concentrations exceeding the MTCA Method A cleanup level in soil samples collected below a depth of 8 feet bgs; therefore, groundwater is not a medium of concern at the Site.

3.3 CLEANUP STANDARDS

Cleanup standards for the Site include establishing cleanup levels that are protective of human health and the environment, and the points of compliance at which the cleanup levels will be attained.



The final cleanup action complies with the cleanup standards, and meets the MTCA requirements for an NFA determination by demonstrating that the cleanup action:

- Is permanent to the maximum extent practicable;
- Protects human health and the environment; and
- Is protective of terrestrial ecological receptors.

3.3.1 Cleanup Level

The cleanup level for lead established for the Site is the MTCA Method A soil cleanup level for unrestricted land uses, which is 250 milligrams per kilogram (mg/kg).

3.3.2 Point of Compliance

The point of compliance includes all locations where the cleanup level will be attained in the affected medium, in accordance with WAC 173-340-720 through 173-340-760. The point of compliance for soil includes soil throughout the Site as defined under MTCA.

3.3.3 Terrestrial Ecological Evaluation

A Terrestrial Ecological Evaluation (TEE) is required as a component of a cleanup action to comply with WAC 173-340-7490. The TEE is used to evaluate whether a release of a hazardous substance poses a threat to the terrestrial environment; characterize existing or potential threats to plants or animals that may be exposed to hazardous substances in soil; and establish site-specific cleanup standards for the protection of terrestrial plants and animals.

Completion of the Simplified TEE-Exposure Analysis Procedure (Appendix E) indicates that no further evaluation is needed for the Site. Details of the TEE are presented in Section 4.3.



4.0 CLEANUP ACTION

This section summarizes the project planning and cleanup action, and discusses the TEE.

4.1 PROJECT PLANNING

Project planning activities for the Site included obtaining the information and analytical data necessary to meet state and local soil disposal requirements. A soil sample was collected from hand-auger boring SS advanced near boring SB-1 (Figure 3) on May 15, 2013 to characterize the soil for disposal. The soil sample was analyzed for:

- TPH as gasoline-range organics by Northwest Method NWTPH-Gx;
- Benzene, toluene, ethylbenzene, and xylenes by U.S. Environmental Protection Agency (EPA) Method 8021B; and
- Arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver by the Toxicity Characteristic Leaching Procedure (TCLP) by EPA Methods 6010C/7470A.

The analytical results meet the TCLP criteria established in WAC 1173-303-090. Based on the analytical results, the soil was designated as Special Waste rather than Dangerous Waste. Clearcreek Contractors, Inc. of Everett, Washington (Clearcreek) excavated and transported the soil to the Republic Services Roosevelt Regional Landfill in Roosevelt, Washington, a Subtitle D landfill facility. The soil sample analytical results are provided in Appendix C.

4.2 CLEANUP ACTION

Soil containing lead at concentrations exceeding the cleanup level of 250 mg/kg was excavated and transported to the Roosevelt Regional Landfill between June and October 2013. Disposal manifests are included in Appendix D. Performance and confirmation soil samples were collected prior to placement of clean imported fill as backfill. Clearcreek was engaged by R.O.M. Holdings to implement the cleanup action earthwork activities, including soil excavation, off-Property transport of excavated soil to the landfill, and Site restoration.

Farallon field activities for the cleanup action included monitoring the excavation activities, collecting performance soil samples for laboratory analysis to guide the excavation, and collecting confirmation soil samples to confirm that soil containing lead at concentrations exceeding the MTCA cleanup level had been removed.

Performance and confirmation soil samples were collected from representative locations within the excavation. The soil samples were collected from the excavator bucket and placed directly into laboratory-prepared sample containers, labeled, placed into coolers, and transported under standard chain-of-custody protocols to OnSite Environmental Inc. for laboratory analysis for DRO and ORO by Northwest Method NWTPH-Dx; for lead by EPA Method 6010C; and/or for TCLP lead by EPA Methods 6010C/7470A. Due to elevated lead concentrations in the soil



samples collected during excavation activities, additional TCLP sampling was required for waste profiling.

Performance soil samples were screened in the field for evidence of petroleum hydrocarbons and HVOCs using visual observations, notation of odor, and a photoionization detector for the presence of volatile organic vapors. The soil descriptions and photoionization detector readings were recorded in the daily field notes.

A total of 42 soil samples were collected from the bottom and sidewalls of the excavation as confirmation samples and analyzed for lead to confirm that the cleanup level had been met at the point of compliance for the Site. The results from the confirmation soil samples collected during the cleanup action are summarized in Table 1. The locations of the confirmation soil samples are shown on Figure 3.

A total of 29 performance (Table 2) and waste profile soil samples (Table 3) were collected during the cleanup action to guide the excavation and confirm that soil met the nonhazardous waste profile for disposal at the Roosevelt Regional Landfill in Roosevelt, Washington.

The excavation exposed drain pipe DP3 at approximately 2 feet bgs, surrounded by sand and drain rock (Figure 3). Drain pipe DP3 was connected to an unknown 3-inch-diameter metal drain pipe beneath the Property building. The suspected source for the 3-inch metal drain pipe could not be identified. A black substance with a faint petroleum odor was observed in drain pipe DP3 and on the surrounding drain rock.

The 3-inch metal drain pipe was cut and capped at the easternmost extent of the excavation near the Property building once soil with concentrations of lead exceeding the MTCA Method A cleanup level had been removed from the area. Drain pipe DP3 and associated drain rock were excavated and transported off the Property for disposal.

The excavation exposed drain pipes DP1 and DP2 (Figure 3). Drain pipe DP2 was encountered between the Property building and drain pipe DP3 at a depth of approximately 2 feet bgs. Drain pipe DP1 was encountered west of DP3 at a depth of approximately 2 feet bgs. Drain pipe DP1 was uncovered to confirm that it did not connect to drain pipe DP3, as both pipes were identical piping types. Clearcreek and Farallon were not able to ascertain the source or purpose of drain pipe DP1 during the excavation activities. The fill material surrounding drain pipe DP1 was large gravel and sand, with no field indications of contamination noted.

The analytical results for soil samples collected from the final limits of the excavation confirmed that soil with concentrations of lead exceeding the MTCA Method A cleanup level was removed from the Site (Table 1). The analytical reports for the performance, confirmation, and waste profiling soil samples collected during the cleanup action are provided in Appendix C.

Cr(III) and Cr(VI) were not speciated in soil samples analyzed for total chromium. At Ecology request, Farallon collected an additional soil sample, SB-6-7.0-091114 (Figure 3; Table 2) at a



depth of 7 feet bgs on September 11, 2014. Soil sample SB-6-7.0-09114 was analyzed for Cr(VI) by EPA Method 7196A modified. Cr(VI) was not detected at a concentration exceeding the MTCA Method A soil cleanup level; therefore, Cr(VI) is not considered to be a COC for the Site.

Soil with concentrations of lead exceeding the MTCA Method A cleanup level was stockpiled on plastic sheeting prior to being loaded into dump trucks and transported to the Roosevelt Regional Landfill in Roosevelt, Washington. The excavation was an approximately 440-square-foot area of depths ranging from 2 to 8 feet bgs (Figure 3). Approximately 181 tons of soil was exported from the Property. Waste disposal documentation is provided in Appendix D.

The excavation was backfilled with clean imported fill. Drain pipes DP1 and DP2 were left in-place following completion of the excavation activities.

4.3 TERRESTRIAL ECOLOGICAL EVALUATION

In accordance with WAC 173-340-7492(2)(a)(ii), Farallon completed the Simplified TEE-Exposure Analysis Procedure (Appendix E). The results indicated that the risk to terrestrial organisms is less than the criteria that would require further evaluation. The TEE process was therefore ended.



5.0 CONCLUSIONS

The cleanup action was conducted at the Site to remove soil with concentrations of lead exceeding the MTCA Method A cleanup level for soil. The cleanup action included excavation and off-Property disposal of approximately 181 tons of soil with concentrations of lead exceeding the cleanup level, collection and analysis of 42 confirmation soil samples, and restoration of the Site. The analytical results for the confirmation soil samples collected at the final limits of the excavation confirmed that concentrations of lead in soil are less than the MTCA Method A cleanup level of 250 mg/kg throughout the Site. The cleanup action results comply with the cleanup standards and meet MTCA requirements for an NFA determination. Farallon requests that Ecology issue an NFA determination for the Site.



6.0 REFERENCES

Al Torie Well Digging. 1978. Water Well Logs. September 20.

Farallon Consulting, L.L.C. (Farallon). 2013. *Subsurface Investigation Report, Ed's Transmission, 10226 State Avenue, Marysville, Washington*. Prepared for Richard O. Matson, R.O.M. Holdings. February 22.

Snohomish Health District (SHD). 2000. Letter Regarding Ed's Transmission, 10226 Smokey Point Boulevard, Marysville, Washington, Department of Ecology ID No. N-31-5088-000. From Gary G. Hanada. To Dick Matson, Ed's Transmission. January 28.



7.0 LIMITATIONS

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

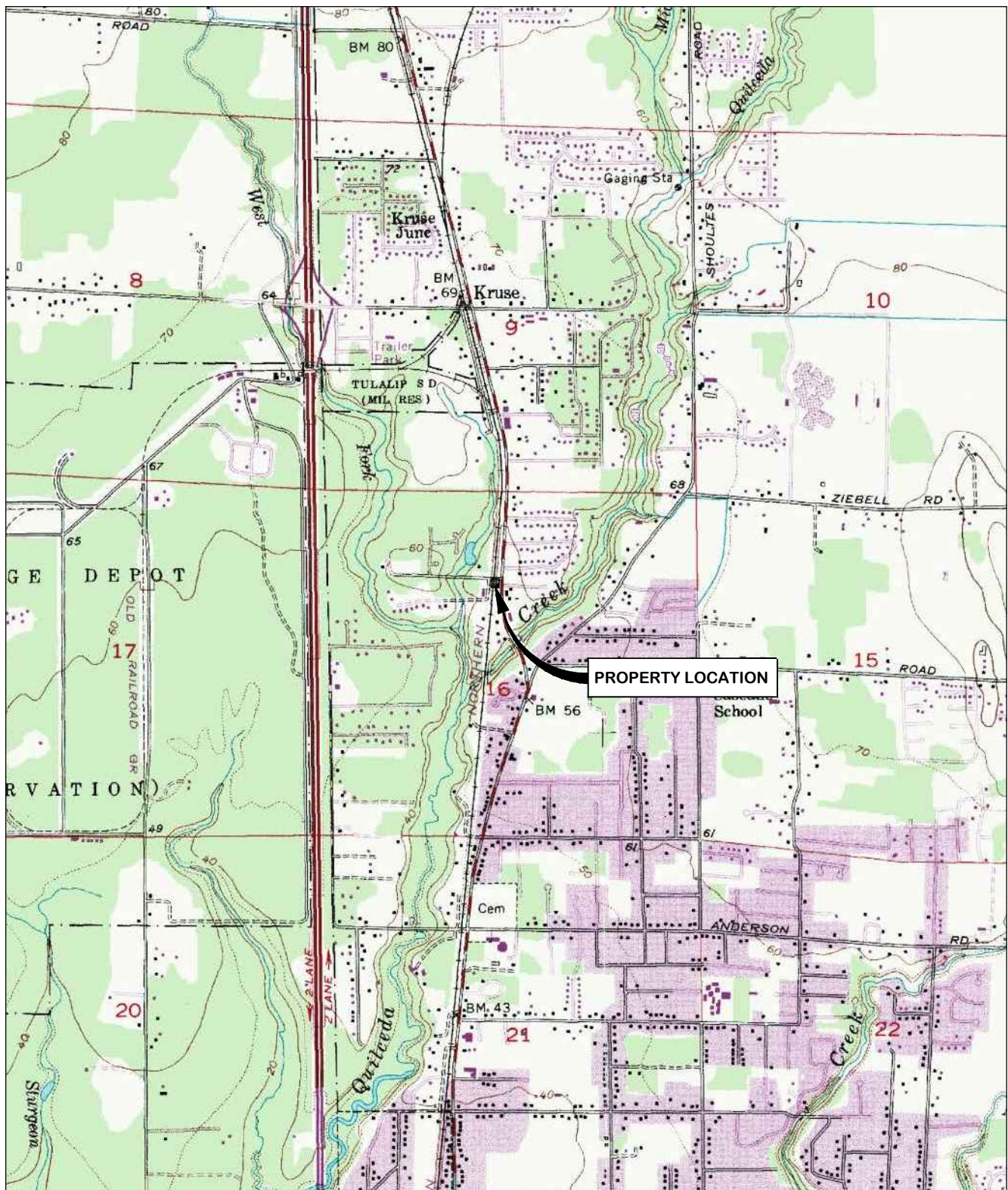
- **Accuracy of Information.** Certain information used by Farallon in this report has been obtained, reviewed, and evaluated from various sources believed to be reliable. Although Farallon's conclusions, opinions, and recommendations are based in part on such information, Farallon's services did not include verification of its accuracy or authenticity. Should such information prove to be inaccurate or unreliable, Farallon reserves the right to amend or revise its conclusions, opinions, and/or recommendations.
- **Limitations.** Because Farallon's report is based on certain information, the accuracy of which has not been determined, and because Farallon's observations made during the cleanup action are limited, Farallon cannot and does not guarantee that the Property is free of hazardous or potentially hazardous materials or conditions, or that latent or undiscovered conditions will not become evident in the future. Since Property activities beyond Farallon's control could change at any time after the completion of this report, Farallon's observations, findings, and opinions can be considered valid only as of the date of the report hereof. This report is prepared in accordance with the client contract and currently accepted industry standards, and no other warranties, representations, or certifications are made. Unless stated otherwise herein, this report is intended for and restricted to the sole use of R.O.M. Holdings. Any use, interpretation, or reliance upon this report by anyone other than R.O.M. Holdings is at the sole risk of that party, and Farallon will have no liability for such unauthorized use, interpretation, or reliance.

FIGURES

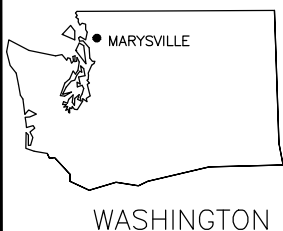
CLEANUP ACTION SUMMARY REPORT

Ed's Transmissions
10226 State Avenue
Marysville, Washington

Farallon PN: 1160-001



REFERENCE: 7.5 MINUTE USGS QUADRANGLE MARYSVILLE, WASHINGTON. DATED 1981





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Portland

California
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FIGURE 1

PROPERTY VICINITY MAP
10226 STATE AVENUE
MARYSVILLE, WASHINGTON

FARALLON PN: 1160-001

Drawn By: DEW

Checked By: JR

Date: 9/24/2014

Disk Reference: 1160001



0 50
Scale in feet

LEGEND

- PROPERTY BOUNDARY
- SB-3 BORING LOCATION (FARALLON 2012)
- ◆ ET-4s FORMER SAMPLE LOCATION BY SNOHOMISH HEALTH DISTRICT (10/1999)
- SS- HAND AUGER LOCATION (FARALLON 2013)



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FIGURE 2

PROPERTY MAP SHOWING
BORING LOCATIONS
10226 STATE AVENUE
MARYSVILLE, WASHINGTON

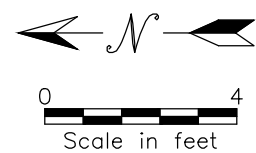
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Checked By: JR

Date: 9/24/2014

Disk Reference: 1160001



TABLES

CLEANUP ACTION SUMMARY REPORT

Ed's Transmissions
10226 State Avenue
Marysville, Washington

Farallon PN: 1160-001

Table 1
Confirmation Soil Analytical Results for Lead
Ed's Transmissions
10226 State Avenue
Marysville Washington
Farallon PN: 1160-001

Sample Location	Sample Identification	Sample Date	Sample Depth (feet) ¹	Analytical Results (milligrams per kilogram)
				Lead ²
B	EX-4.0-B	6/04/2013	4.0	5.8
N	EX-4.0-N	6/04/2013	4.0	30
S	EX-4.0-S	6/04/2013	4.0	79
W	EX-4.0-WB	6/4/2013	4.0	<5.2
B	EX-6.0-B	6/06/2013	6.0	9.0
E2	EX-6.0-E2	6/14/2013	6.0	20
E3	EX-6.0-E3	6/14/2013	6.0	230
S	EX-2.0-S	6/14/2013	2.0	230
E4	EX-4.0-E4	7/04/2013	4.0	9.2
	EX-6.0-E4	7/04/2013	6.0	13
E5	EX-4.0-E5	7/04/2013	4.0	<5.2
	EX-6.0-E5	7/04/2013	6.0	22
N2	EX-3.5-N2	7/16/2013	3.5	<5.2
BB	EX-6.0-BB	7/16/2013	6.0	17
S3E	EX-4.0-S3E	7/24/2013	4.0	<5.3
	EX-6.0-S3E	7/24/2013	6.0	<5.3
BS	EX-8.0-BS	08/02/13	8.0	31
BS2	EX-8.0-BS2	08/02/13	8.0	250
S5	EX-6.0-S5	08/02/13	6.0	180
S7	EX-6.0-S7	8/29/2013	6.0	130
E1	EX-4.0-E1	10/05/2013	4.0	22
	EX-6.0-E1	10/05/2013	6.0	7.4
E2	EX-4.0-E2	10/05/2013	4.0	<5.3
	EX-6.0-E2	10/05/2013	6.0	<5.4
E3	EX-4.0-E3	10/05/2013	4.0	91
	EX-8.0-E3	10/05/2013	8.0	180
E4	EX-4.0-E4	10/05/2013	4.0	84
	EX-8.0-E4	10/05/2013	8.0	<5.9
E5	EX-4.0-E5	10/05/2013	4.0	35
	EX-8.0-E5	10/05/2013	8.0	140
S1	EX-4.0-S1	10/05/2013	4.0	27
	EX-6.0-S1	10/05/2013	6.0	7.4
MTCA Method A Soil Cleanup Levels³				250

Table 1
Confirmation Soil Analytical Results for Lead
Ed's Transmissions
10226 State Avenue
Marysville Washington
Farallon PN: 1160-001

Sample Location	Sample Identification	Sample Date	Sample Depth (feet) ¹	Analytical Results (milligrams per kilogram)
				Lead ²
W1	EX-4.0-W1	10/05/2013	4.0	<5.3
	EX-6.0-W1	10/05/2013	6.0	<5.3
W2	EX-4.0-W2	10/05/2013	4.0	<5.4
	EX-6.0-W2	10/05/2013	6.0	11
W3	EX-4.0-W3	10/05/2013	4.0	<5.4
	EX-8.0-W3	10/05/2013	8.0	<5.3
W4	EX-4.0-W4	10/05/2013	4.0	6.4
	EX-8.0-W4	10/05/2013	8.0	13
W5	EX-4.0-W5	10/05/2013	4.0	<5.2
	EX-8.0-W5	10/05/2013	8.0	<5.5
MTCA Method A Soil Cleanup Levels³				250

NOTES:

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

¹Depth in feet below ground surface.

²Analyzed by U.S. Environmental Protection Agency Method 6010C.

³Washington 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.

Table 2
Performance Soil Analytical Results
Ed's Transmissions
10226 State Avenue
Marysville Washington
Farallon PN: 1160-001

Sample Location	Sample Identification	Sample Date	Sample Depth (feet) ¹	Analytical Results (milligrams per kilogram)			
				Lead ²	DRO ³	ORO ³	Cr(VI) ⁴
E	EX-4.0-E	6/4/2013	4.0	1,500	--	--	--
E2	EX-4.0	6/6/2013	4	380	--	--	--
E2	EX-6.0-E2	6/14/2013	6.0	20	<26	<53	--
E4	EX-4.0-E4	7/04/2013	4.0	9.2	<27	<53	--
	EX-6.0-E4	7/04/2013	6.0	13	<27	<53	--
E5	EX-4.0-E5	7/04/2013	4.0	<5.2	<26	<52	--
	EX-6.0-E5	7/04/2013	6.0	22	<27	<54	--
N2	EX-3.5-N2	7/16/2013	3.5	<5.2	<26	<52	--
NB	EX-4.0-NB	7/16/2013	4.0	--	<26	<52	--
WB	EX-4.0-WB	7/16/2013	4.0	---	<27	<54	--
BB	EX-6.0-BB	7/16/2013	6.0	17	<26	<53	--
S2	EX-4.0-S2	7/16/2013	4.0	390	<26	130	--
S3	EX-4.0-S3	7/16/2013	4.0	360	<26	84	--
S3E	EX-4.0-S3E	7/24/2013	4.0	<5.3	<26	<53	--
	EX-6.0-S3E	7/24/2013	6.0	<5.3	<27	<53	--
S4	EX-4.0-S4	7/24/2013	4.0	850	<27	130	--
	EX-6.0-S4	7/24/2013	6.0	760	<27	130	--
B5	EX-6.0-B5	7/24/2013	6.0	370	<27	<54	--
BS	EX-8.0-BS	8/2/2013	8.0	31	<27	<54	--
BS2	EX-8.0-BS2	8/2/2013	8.0	250	<27	140	--
S5	EX-4.5-S5	8/2/2013	4.5	690	<27	230	--
	EX-6.0-S5	8/2/2013	6.0	180	<26	<53	--
PIPE	PIPE-SW-4.0	8/27/2013	4.0	290	--	--	--
S7	EX-4.5-S7	8/29/2013	4.5	1,100	--	--	--
E3	EX-4.0-E3	10/05/2013	4.0	91	<27	<53	--
E5	EX-4.0-E5	10/05/2013	4.0	35	<27	130	--
S1	EX-4.0-S1	10/05/2013	4.0	27	<26	<52	--
W2	EX-6.0-W2	10/05/2013	6.0	11	<27	<53	--
W4	EX-4.0-W4	10/05/2013	4.0	6.4	<27	<53	--
SB-6	SB-6-7.0-091114	9/11/2014	7.0	--	--	--	<1.1
MTCA Method A Soil Cleanup Levels⁵				250	2,000	2,000	19

NOTES:

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

-- denotes sample not analyzed

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

¹Depth in feet below ground surface.

²Analyzed by U.S. Environmental Protection Agency Method 6010C.

³Analyzed by Northwest Method NWTPH-Dx.

⁴Analyzed by U.S. Environmental Protection Agency Method 7196A modified

⁵Washington 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.

Cr VI = hexavalent chromium

DRO = TPH as diesel-range organics

ORO = TPH as oil-range organics

TPH = total petroleum hydrocarbons

Table 3
Waste Profile Soil Analytical Results
Ed's Transmissions
10226 State Avenue
Marysville Washington
Farallon PN: 1160-001

Sample Location	Sample Identification	Sample Date	Sample Depth (feet) ¹	Analytical Results (milligrams per liter)								Analytical Results (milligrams per kilogram)				
				Arsenic ²	Barium ²	Cadmium ²	Chromium ²	Lead ²	Mercury ³	Selenium ²	Silver ²	GRO ⁴	Benzene ⁵	Toluene ⁵	Ethylbenzene ⁵	Xylenes ⁵
SS	SS-051513	05/15/13	2.5	<0.40	0.51	<0.020	<0.020	<0.20	<0.0050	<0.40	<0.040	<5.2	<0.020	<0.020	<0.020	<0.104
Stock Pile	EX-STOCKPILE	10/05/13	NA	--	--	--	--	<0.20	--	--	--	--	--	--	--	--
E3	EX-8.0-E3	10/05/13	8.0	--	--	--	--	2.0	--	--	--	--	--	--	--	--
E5	EX-8.0-E5	10/05/13	8.0	--	--	--	--	0.45	--	--	--	--	--	--	--	--
Toxicity Characteristic Maximum Contaminant Concentrations ⁶				5	100	1	5	5	0.2	1	5	NA	NA	NA	NA	NA
MTCA Method A Soil Cleanup Levels ⁷				NA	NA	NA	NA	NA	NA	NA	NA	100	0.03	7	6	9

NOTES:
< denotes analyte not detected at or above the laboratory reporting limit listed.
-- denotes sample not analyzed
¹Depth in feet below ground surface.
²Analyzed by U.S. Environmental Protection Agency Method 6010C.
³Analyzed by U.S. Environmental Protection Agency Method 7470A.
⁴Analyzed by Northwest Method NWTPH-Gx.
⁵Analyzed by U.S. Environmental Protection Agency Method 8021B.
⁶Washington State Department of Ecology Dangerous Waste Regulations, Maximum Concentration of Contaminants for the Toxicity Characteristic, Chapter 173-303-090 of the Washington Administrative Code as revised June 2009.
⁷Washington 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.

GRO = total petroleum hydrocarbons as gasoline-range organics
NA = not applicable

APPENDIX A
SITE PHOTOGRAPHS

CLEANUP ACTION SUMMARY REPORT

Ed's Transmissions
10226 State Avenue
Marysville, Washington

Farallon PN: 1160-001



SITE PHOTOGRAPHS

**Cleanup Action Summary
Ed's Transmissions
Marysville, Washington
Farallon PN: 1160-001**

Photograph 1: Perforated drainpipe extending west from Site building.

Photograph 2: Metal drainpipe extending west from unknown location inside the Site building that was connected to the perforated drainpipe.

Photograph 3: Perforated drainpipe.

Photograph 4: Black substance inside perforated drainpipe.

Photograph 5: Removed section of perforated drainpipe.

Photograph 6: Septic drainpipe and perforated drainpipe extending south.



SITE PHOTOGRAPHS (continued)
Cleanup Action Summary
Ed's Transmissions
Marysville, Washington



Photograph 1: Perforated drainpipe extending west from Site building.



Photograph 2: Metal drainpipe extending west from unknown location inside the Site building that was connected to the perforated drainpipe.



SITE PHOTOGRAPHS (continued)
Cleanup Action Summary
Ed's Transmissions
Marysville, Washington



Photograph 3: Perforated drainpipe.



Photograph 4: Black substance inside perforated drainpipe.



SITE PHOTOGRAPHS (continued)
Cleanup Action Summary
Ed's Transmissions
Marysville, Washington



Photograph 5: Removed section of perforated drainpipe.



Photograph 6: Septic drainpipe and perforated drainpipe extending south.

APPENDIX B
PREVIOUS ENVIRONMENTAL INVESTIGATION REPORTS

CLEANUP ACTION SUMMARY REPORT

Ed's Transmissions
10226 State Avenue
Marysville, Washington

Farallon PN: 1160-001



975 5th Avenue Northwest, Issaquah, Washington 98027
Tel: (425) 295-0800 Fax: (425) 295-0850
www.farallonconsulting.com

SUBSURFACE INVESTIGATION REPORT

**ED'S TRANSMISSION
10226 STATE AVENUE
MARYSVILLE, WASHINGTON**

**Submitted by:
Farallon Consulting, L.L.C.
975 5th Avenue Northwest
Issaquah, Washington 98027
Farallon PN: 1160-001**

**For:
Mr. Richard O. Matson
R.O.M. Holdings
4203 81st Place Northeast
Marysville, Washington 98271**

February 22, 2013

Prepared by:

A handwritten signature in blue ink, appearing to read "Javan Ruark", with a long horizontal flourish extending to the right.

Javan Ruark, G.I.T.
Project Geologist

Reviewed by:

A handwritten signature in blue ink, appearing to read "Peter Jewett", with a long horizontal flourish extending to the right.

Peter Jewett, L.G., L.E.G.
Principal Engineering Geologist



TABLE OF CONTENTS

ACRONYMS AND ABBREVIATIONS.....	iii
EXECUTIVE SUMMARY	iv
1.0 INTRODUCTION.....	1-1
1.1 PURPOSE	1-1
1.2 ORGANIZATION	1-1
2.0 BACKGROUND	2-1
2.1 SITE DESCRIPTION	2-1
2.2 SITE HISTORY	2-1
3.0 SUBSURFACE INVESTIGATION	3-1
3.1 FIELD PROGRAM	3-1
3.2 SOIL AND RECONNAISSANCE GROUNDWATER SAMPLES.....	3-1
4.0 SUBSURFACE INVESTIGATION RESULTS	4-1
4.1 REGULATORY SCREENING LEVELS	4-1
4.2 LABORATORY ANALYTICAL APPROACH	4-1
4.3 SOIL ANALYTICAL RESULTS.....	4-1
4.3.1 Soil Conditions.....	4-1
4.3.2 Soil Analytical Results.....	4-2
4.4 RECONNAISSANCE GROUNDWATER	4-3
4.4.1 Groundwater Conditions	4-3
4.4.2 Reconnaissance Groundwater Analytical Results	4-3
5.0 CONCLUSIONS	5-1
6.0 REFERENCES.....	6-1



FIGURES

Figure 1 *Site Vicinity Map*

Figure 2 *Site Plan Showing Boring Locations*

TABLES

Table 1 *Soil Analytical Results for Petroleum Hydrocarbons*

Table 2 *Soil Analytical Results for Halogenated Volatile Organic Compounds*

Table 3 *Soil Analytical Results for Total Metals*

Table 4 *Groundwater Analytical Results*

APPENDICES

Appendix A *Boring Logs*

Appendix B *Laboratory Analytical Reports*



ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
COCs	constituents of concern
DRO	total petroleum hydrocarbons as diesel-range organics
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
Farallon	Farallon Consulting, L.L.C.
HVOCS	halogenated volatile organic compounds
MTCA	Washington State Model Toxics Control Act Cleanup Regulation
ORO	total petroleum hydrocarbons as oil-range organics
PID	photoionization detector
PQLs	practical quantitation limits
SHD	Snohomish Health District
Site	Ed's Transmission Property at 10226 State Avenue in Marysville, Washington
USCS	United Soil Classification System
WAC	Washington Administrative Code



EXECUTIVE SUMMARY

Farallon Consulting, L.L.C. (Farallon) has prepared this Subsurface Investigation Report to document the results of the Subsurface Investigation of the property at 10226 State Avenue in Marysville, Washington (herein referred to as the Site). Historical operations on the Site included automotive repair and service from 1969 until the present. The current automotive repair building was constructed in 1980 following removal of the original service garage building.

A prior investigation at the Site conducted by the Snohomish Health District (SHD) identified the presence of petroleum hydrocarbons, cadmium, and lead in soil at concentrations above Washington State Model Toxics Control Act Cleanup Regulation (MTCA) cleanup levels along the western side of the building. Following the investigation conducted by SHD, a hazard ranking of 4 was assigned to the Site, where 1 represents the highest risk to human health and the environment and 5 represents the lowest risk.

Farallon conducted a Subsurface Investigation in December 2012 that included advancement of five borings to depths ranging from 7 to 15 feet below grade surface (bgs) and collection and laboratory analysis of soil and reconnaissance groundwater samples. No obvious visual or olfactory signs of contamination were noted during the Subsurface Investigation. Soil conditions encountered during the Subsurface Investigation included glacial till consisting of dense to very dense silty sand with varying amounts of gravel sand at variable depths.

Oil-range petroleum hydrocarbons and lead were detected in soil at concentrations below MTCA Method A cleanup levels along the southwestern portion of the Site where the SHD investigation had previously detected concentrations of these constituents above MTCA Method A cleanup levels.

Lead was detected at concentrations above MTCA Method A cleanup levels in shallow soil samples collected at one boring on the northwestern portion of the Site. Oil-range petroleum hydrocarbons, cadmium, and lead were not detected at concentrations above MTCA Method A cleanup levels at any other locations at the Site.

Oil-range petroleum hydrocarbons, total cadmium, and total lead were detected at concentrations above MTCA Method A groundwater cleanup levels in the reconnaissance groundwater sample collected from the boring on the northwest portion of the Site. However, groundwater encountered at this location represents a perched water zone associated with ponding of stormwater that infiltrates into the soil at this low topographic area. The results of the Subsurface Investigation indicate that regional groundwater is not impacted, based on the following:

- Well logs for area monitoring wells proximate to the Site indicate that groundwater is encountered at 30 to 33 feet bgs;



- Soil conditions encountered at the Site include dense till that limits infiltration of surface water;
- Oil-range petroleum hydrocarbons, cadmium, or lead were not detected at concentrations above MTCA Method A cleanup levels in the soil sample collected at depth in the boring on the northwest portion of the Site; and
- No groundwater was encountered in the other four borings advanced during the Subsurface Investigation.

In summary, releases of oil-range petroleum hydrocarbons, cadmium, and lead to perched groundwater are limited to the small area of shallow perched groundwater in the northwest corner of the Site. The perched groundwater likely is the result of infiltration from ponding of stormwater runoff from the Site. This is the same area where concentrations of lead above the MTCA method A cleanup level were detected in shallow soil. Concentrations of oil-range petroleum hydrocarbons, cadmium, or lead above MTCA Method A cleanup levels or the laboratory practical quantitation limit were not detected in soil in any other areas of the Site, including the areas previously reporting exceedances of MTCA Method A cleanup levels in the SHD sampling.



1.0 INTRODUCTION

Farallon Consulting, L.L.C. (Farallon) has prepared this Subsurface Investigation Report to document the results of the Subsurface Investigation of the property at 10226 State Avenue in Marysville, Washington (herein referred to as the Site) (Figure 1). The Subsurface Investigation was performed in accordance with the letter regarding Proposal for Subsurface Investigation, 10226 State Route, Marysville, Washington dated December 13, 2012, prepared by Farallon. Historical operations on the Site included automotive repair and service from 1969 until the present. The current automotive repair building was constructed in 1980 following removal of the original service garage building. Total petroleum hydrocarbons as oil-range organics (ORO), cadmium, and lead were detected in soil at concentrations above Washington State Model Toxics Control Act Cleanup Regulation (MTCA) cleanup levels in a prior investigation at the Site conducted by the Snohomish Health District (SHD) (2000).

1.1 PURPOSE

The purpose of the Subsurface Investigation conducted by Farallon was to investigate the nature and extent of total petroleum hydrocarbons and metals that exceed MTCA cleanup levels in soil and/or groundwater. The Subsurface Investigation was conducted in accordance with the procedures and standards of MTCA, as established in Chapter 173-340 of the Washington Administrative Code (WAC 173-340).

1.2 ORGANIZATION

This Subsurface Investigation Report has been organized into the following sections:

- **Section 1—Introduction.** This section presents the purpose of the Subsurface Investigation.
- **Section 2—Background.** This section provides a description of the Site and a summary of the Site history.
- **Section 3—Subsurface Investigation.** This section presents the field activities and scope of work for the Subsurface Investigation.
- **Section 4—Subsurface Investigation Results.** This section presents the results of the Subsurface Investigation activities.
- **Section 5—Conclusions.** This section summarizes Farallon's conclusions pertaining to the environmental conditions at the Site based on the results of the Subsurface Investigation.
- **Section 6—References.** This section identifies the documents cited in this report.



2.0 BACKGROUND

This section describes the location and features of the Site and presents a brief history of the Site, including operations and a summary of the investigation conducted by SHD.

2.1 SITE DESCRIPTION

The Site is located in a commercial area of Marysville, Washington (Figure 1). The Site is developed with a building that was constructed in 1980, and an asphalt-paved parking area on the east side of the building (Figure 2). Tires and other automotive parts are stored on an unpaved surface on the west side of the building.

Current operations on the Site include automotive repair and maintenance. At the time of the Subsurface Investigation, automotive repair operations were ongoing. A Site representative indicated that stormwater ponded on the northwest corner of the Site during storm events.

2.2 SITE HISTORY

Operations on the Site have included automotive repair and service from 1969 until 1980. The current automotive repair building was constructed in 1980 following removal of the original service garage building (SHD 2000).

In April 1992, an initial site investigation was conducted by the Washington State Department of Ecology (Ecology) to evaluate an earlier report concerning improper disposal of waste oil at the Site. Following its site investigation, Ecology included the Site on the Confirmed and Suspected Contaminated Sites list for the following issues (SHD 2000):

- Confirmed petroleum products in soil;
- Suspected halogenated organic compounds and metals in soil, groundwater, surface water, air, and sediments; and
- Suspected petroleum products in groundwater, surface water, air, and sediments.

A site hazard assessment was completed by SHD (2000) to investigate waste management activities and other environmental data to determine a hazard ranking for the Site. Three surface soil samples and one subsurface soil sample were collected from the area along the west side of the automotive repair building and submitted for laboratory analysis. Petroleum hydrocarbons, cadmium, and lead were detected at concentrations above MTCA Method A cleanup levels in the soil samples collected. A hazard ranking of 4 was assigned to the Site, where 1 represents the highest risk and 5 is the lowest (SHD 2000).



3.0 SUBSURFACE INVESTIGATION

Farallon conducted Subsurface Investigation field activities at the Site on December 28, 2012. The field program and soil and reconnaissance groundwater sampling conducted as part of the Subsurface Investigation are described below. The Site features and sampling locations are shown on Figure 2. Boring logs are provided in Appendix A.

3.1 FIELD PROGRAM

The field program included the following:

- Preparing a Health and Safety Plan in accordance with WAC 296-62 and Part 1910.120 of Title 29 of the Code of Federal Regulations prior to conducting field activities;
- Performing a utility locate at the proposed boring locations using the One Call Utility Notification Center to mark underground utility lines in easements and rights-of-way, and Applied Professional Services Inc. of North Bend, Washington for the private utility location service; and
- Advancing five direct-push soil borings and collecting soil samples and a reconnaissance groundwater sample for laboratory analysis.

A description of the Subsurface Investigation field activities is provided below.

3.2 SOIL AND RECONNAISSANCE GROUNDWATER SAMPLES

Soil borings were advanced at the Site on December 28, 2012 at locations selected based on the analytical results for the soil samples collected by SHD (2000) and current and historical operations on the Site. Prior to conducting the drilling activities, Farallon contacted the One Call Utility Notification Center to mark underground utility lines in easements and rights-of-way at the Site. Farallon engaged Applied Professional Services, Inc., a private utility location service, to clear the proposed boring locations of underground utilities.

A direct-push drill rig was used to advance soil borings SB-1 through SB-5 to a total depth of between approximately 7 and 15 feet below ground surface (bgs) (Figure 2). Soil samples were collected continuously at 4-foot intervals and described in accordance with the Unified Soil Classification System (USCS). During drilling activities, soil was assessed for visual or olfactory signs of contamination, and volatile organic vapors in each soil sample were measured using a photoionization detector (PID). Headspace analysis was conducted by placing soil from each sample interval into a resealable plastic bag and allowing the sample to warm for several minutes. The probe of the PID was then inserted into the bag, and the highest reading obtained over an approximately 30-second interval was recorded. The USCS symbol, visual and olfactory notations for the samples, and PID readings were recorded on boring log forms, which are provided in Appendix A.

A reconnaissance groundwater sample was collected from boring SB-1 using a peristaltic pump with dedicated polyethylene tubing. Boring SB-1 was purged until the groundwater no longer



appeared turbid, or until the quantity of fine-grained sediment stabilized. Upon completion, each of the borings was abandoned by backfilling with hydrated bentonite chips and capping with cold-patch asphalt in areas that were previously covered by asphalt.

Soil and reconnaissance groundwater samples were transferred directly into laboratory-prepared glass sample containers fitted with a Teflon-lined lid. Three soil samples were collected from each boring, and one reconnaissance groundwater sample was collected. The samples were submitted to OnSite Environmental Inc. of Redmond, Washington for the following laboratory analyses:

- ORO and total petroleum hydrocarbons as diesel-range organics (DRO) by Northwest Method NWTPH-Dx (with acid/silica gel cleanup);
- Halogenated volatile organic compounds (HVOCs) by U.S. Environmental Protection Agency (EPA) Method 8260B; and
- Metals (arsenic, cadmium, chromium, lead, and mercury) by EPA Methods 6010C/7471B.

Soil cuttings, decontamination water, and purge water generated during the drilling activities were placed into labeled 55-gallon drums and stored on the Site pending waste profiling and proper disposal.



4.0 SUBSURFACE INVESTIGATION RESULTS

The results of the Subsurface Investigation are presented in the following sections, including a discussion of regulatory screening levels, the laboratory analytical approach used for the Site, and the analytical results for the soil and groundwater samples collected during the Subsurface Investigation. The soil boring logs are provided in Appendix A. Laboratory analytical reports for the samples collected during the Subsurface Investigation are provided in Appendix B.

4.1 REGULATORY SCREENING LEVELS

The laboratory analytical results for soil samples and the reconnaissance groundwater sample collected for the Subsurface Investigation have been compared to MTCA cleanup levels to evaluate whether concentrations of hazardous substances in soil or groundwater pose a potential risk to human health or the environment. The MTCA cleanup levels used for this investigation are summarized in Tables 1 through 4.

4.2 LABORATORY ANALYTICAL APPROACH

The laboratory analytical approach for the Subsurface Investigation was developed to assess whether hazardous substances are present at the Site at concentrations exceeding MTCA cleanup levels. Based on previous investigations and historical and current operations at the Site, the contaminants of concern included DRO, ORO, metals, and HVOCs.

A total of 15 soil samples and one reconnaissance groundwater sample were analyzed for DRO, ORO, metals, and HVOCs. The analytical results are summarized in Tables 1 through 4. The laboratory analytical reports are provided in Appendix B.

4.3 SOIL ANALYTICAL RESULTS

Observed soil conditions and the laboratory analytical results for the soil samples are discussed below. The laboratory analytical results for soil and a comparison to MTCA Method A cleanup levels are summarized in Tables 1 through 3.

4.3.1 Soil Conditions

According to regional well logs for the area, subsurface soil consists of coarse- and medium-grained sand overlying clay and coarse sand (Al Torie Well Digging 1978). The eastern portion of the Site is paved with asphalt that ranges from 1 to 2 inches in thickness. The western portion of the Site is unpaved, with coarse gravel at the surface. Underlying soil is glacial till consisting of dense to very dense silty sand with varying amounts of gravel sand at variable depths.

Levels of volatile organic vapors measured in soil using a PID in the field ranged from 0.0 to 2.2 PID units. The field-screening of soil samples, including visual and olfactory assessment, identified no obvious evidence of potential soil contamination at the Site.



4.3.2 Soil Analytical Results

The soil analytical results are discussed below and summarized in Tables 1 through 3. The laboratory analytical reports are provided in Appendix B.

4.3.2.1 Petroleum Hydrocarbons

The concentrations of petroleum hydrocarbons detected in soil samples collected at the Site were compared with MTCA Method A cleanup levels. Petroleum hydrocarbons were detected at concentrations above the laboratory practical quantitation limits (PQLs), but below MTCA Method A cleanup levels in the following soil samples (Table 1):

Boring SB-1 at 1.0 foot and 2.5 feet bgs: ORO was detected at concentrations above the laboratory PQL, but below the MTCA Method A cleanup level.

Boring SB-3 at 2.0 feet bgs: ORO was detected at a concentration above the laboratory PQL, but below the MTCA Method A cleanup level.

Except as noted above, concentrations of petroleum hydrocarbons were below the laboratory PQLs in the soil samples analyzed.

4.3.2.2 Halogenated Volatile Organic Compounds

The concentrations of HVOCs detected in soil samples collected at the Site have been compared with MTCA Method A cleanup levels. HVOCs were detected at concentrations above the laboratory PQLs, but below MTCA Method A cleanup levels in the following soil samples (Table 2):

Boring SB-1 at 1.0 foot and 2.5 feet bgs: Tetrachloroethene was detected at concentrations above the laboratory PQL, but below the MTCA Method A cleanup level.

Boring SB-4 at 1.5 feet bgs: Bromomethane and 1,1,1-trichloroethane were detected at concentrations above the laboratory PQLs, but below MTCA Method A cleanup levels.

HVOCs were not detected at concentrations above the laboratory PQLs in the remaining soil samples analyzed.

4.3.2.3 Metals

The concentrations of metals detected in soil samples collected at the Site have been compared with MTCA Method A cleanup levels. Concentrations of metals above the laboratory PQLs were detected in the following soil samples (Table 3):

Boring SB-1: Lead was detected at concentrations above the MTCA Method A cleanup level at 1.0 foot and 2.5 feet bgs, and below the MTCA Method A cleanup level at 6.0 feet bgs. Cadmium and/or chromium were detected at concentrations above the laboratory PQLs, but below the MTCA Method A cleanup level at 1.0 foot and 2.5 and 6.0 feet bgs. No other metals were detected above the laboratory PQL.



Boring SB-2 at 2.0, 8.5, and 13.5 feet bgs: Chromium and/or lead were detected at concentrations above the laboratory PQLs, but below the MTCA Method A cleanup level. No other metals were detected above the laboratory PQL.

Boring SB-3 at 2.0, 8.0, and 13.0 feet bgs: Chromium and lead were detected at concentrations above the laboratory PQLs, but below the MTCA Method A cleanup level. No other metals were detected above the laboratory PQL.

Boring SB-4 at 1.5, 7.0, and 12.0 feet bgs: Chromium and/or lead were detected at concentrations above the laboratory PQLs, but below the MTCA Method A cleanup level. No other metals were detected above the laboratory PQL.

Boring SB-5 at 2.0, 8.0, and 13.0 feet bgs: Chromium was detected at concentrations above the laboratory PQLs. No other metals were detected above the laboratory PQL.

4.4 RECONNAISSANCE GROUNDWATER

The results of observed groundwater conditions and the laboratory analytical results for reconnaissance groundwater are presented below. The laboratory analytical results for reconnaissance groundwater and a comparison to the screening levels are summarized in Table 4.

4.4.1 Groundwater Conditions

According to regional groundwater well logs obtained from Ecology, groundwater ranges from 30 to 33 feet bgs (Al Torie Well Digging 1978). Groundwater was not encountered in borings SB-2 through SB-5. An isolated perched groundwater zone was encountered at 4.0 feet bgs in boring SB-1 (Figure 2). Infiltration of surface water ponding in the low topographic area where SB-1 was located may be the source of the perched groundwater. Groundwater was not encountered at depths below 6 feet bgs in the same boring.

A reconnaissance groundwater sample was collected from boring SB-1 at 4 feet bgs. The reconnaissance groundwater sample was not filtered and does not represent groundwater quality consistent with a groundwater sample collected from a monitoring well installed in accordance with Ecology guidelines.

4.4.2 Reconnaissance Groundwater Analytical Results

The laboratory analytical results for the reconnaissance groundwater sample are discussed below and summarized in Table 4. The laboratory analytical reports are provided in Appendix B.

4.4.2.1 Petroleum Hydrocarbons

ORO was detected at a concentration above the MTCA Method A cleanup level in the reconnaissance groundwater sample collected from boring SB-1. DRO was not detected at a concentration above the laboratory PQLs.



4.4.2.2 Halogenated Volatile Organic Compounds

HVOCs were not detected at concentrations above the laboratory PQLs in the reconnaissance groundwater sample collected from boring SB-1.

4.4.2.3 Metals

Total cadmium and total lead were detected at concentrations above MTCA Method A cleanup levels in the reconnaissance groundwater sample collected from boring SB-1. Total chromium was detected at a concentration above the laboratory PQL. Total arsenic and total mercury were not detected at concentrations above the laboratory PQLs in the reconnaissance groundwater sample collected from boring SB-1.



5.0 CONCLUSIONS

Because concentrations of petroleum hydrocarbons and metals above MTCA cleanup levels were detected in soil during the SHD investigation conducted at the Site in 2000, a Subsurface Investigation was conducted by Farallon in 2012 to evaluate whether current concentrations of hazardous substances in soil and/or groundwater at the Site exceed MTCA Method A cleanup levels.

No obvious visual or olfactory signs of contamination were noted during the Subsurface Investigation. Although some constituents were detected at some soil locations and in groundwater, the concentrations were either below MTCA Method A cleanup levels or were less than the concentrations of the same constituents detected in the SHD investigation. ORO or total lead was not detected at concentrations above MTCA Method A cleanup levels in soil along the southwestern portion of the Site where SHD (2000) detected concentrations of ORO and lead above MTCA Method A cleanup levels.

Total lead was detected during the Subsurface Investigation conducted by Farallon at concentrations above the MTCA Method A cleanup level in soil samples collected at boring SB-1 from 1.0 foot to 2.5 feet bgs on the northwestern portion of the Site. However, these concentrations were less than those detected by SHD in the area of boring SB-1 in 2000. ORO, total cadmium, and total lead were not detected at concentrations above MTCA Method A cleanup levels at any other location at the Site.

ORO, total cadmium, and total lead were detected at concentrations above MTCA Method A cleanup levels in the reconnaissance groundwater sample collected from boring SB-1. However, the groundwater encountered at boring SB-1 is a perched water zone associated with ponding of stormwater that infiltrates into soil at this low topographic area.

The nature and extent of ORO, total cadmium, and/or total lead in soil and reconnaissance groundwater at SB-1 is limited to shallow soil. The source of contamination appears to be fugitive releases to the surface that are carried by stormwater, and infiltrate soil in the low-lying area on the northwest corner of the Site. The results of the Subsurface Investigation conducted by Farallon indicate that regional groundwater is not impacted, based on the following:

- Surrounding well logs indicate groundwater at 30 to 33 feet bgs (Al Torie Well Digging 1978);
- Soil conditions encountered at the Site are dense till that precludes infiltration of surface water; and
- ORO, total cadmium, and total lead were not detected at concentrations above MTCA Method A cleanup levels in soil samples collected from boring SB-1 at 6.0 feet bgs.

No groundwater was encountered in the other four borings advanced during the Subsurface Investigation.



Groundwater impacts appear to be limited to the small area of very shallow perched groundwater created at the northwest corner of the Site by ponding and infiltration of stormwater. This area is the only location where soil sampling indicated contaminants above MTCA cleanup levels. Concentrations of contaminants in soil were either below MTCA Method A cleanup levels or below the laboratory PQL at all other areas of the Site, including the areas where exceedances of MTCA Method A cleanup levels were reported in the 2000 SHD sampling.



6.0 REFERENCES

Al Torie Well Digging. 1978. Water Well Logs. September 20.

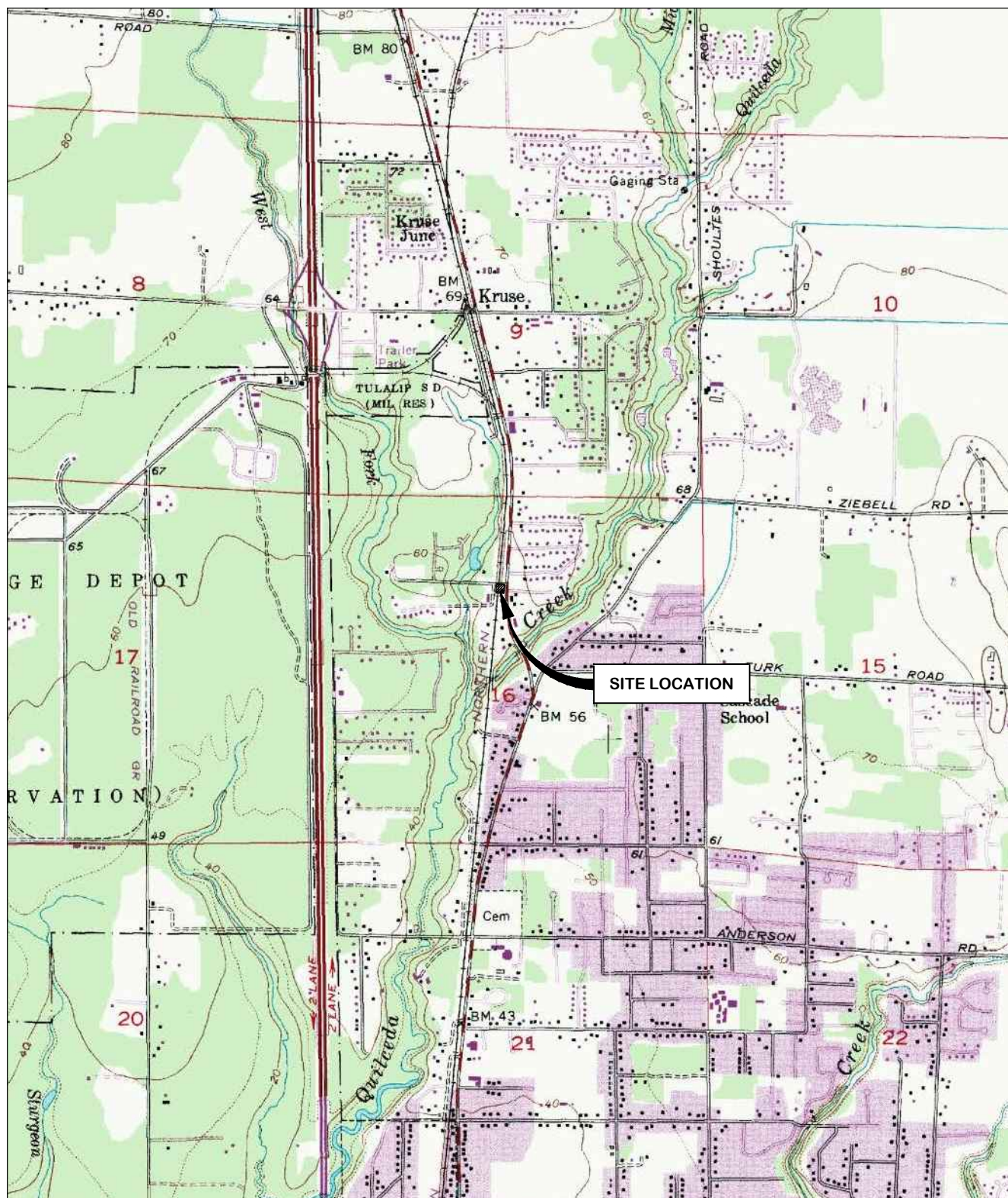
Snohomish Health District (SHD). 2000. Letter Regarding Ed's Transmission, 10226 Smokey Point Boulevard, Marysville, Washington, Department of Ecology ID No. N-31-5088-000. From Gary G. Hanada, Environmental Health Specialist. To Dick Matson, Ed's Transmission. January 28.

FIGURES

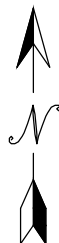
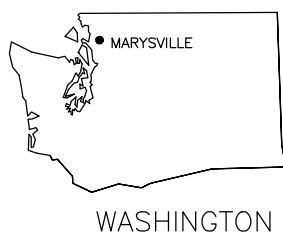
SUBSURFACE INVESTIGATION REPORT

Ed's Transmission
10226 State Avenue
Marysville, Washington

Farallon PN: 1160-001



REFERENCE: 7.5 MINUTE USGS QUADRANGLE MARYSVILLE, WASHINGTON. DATED 1981



FARALLON CONSULTING
975 5th Avenue Northwest
Issaquah, WA 98027

FIGURE 1

SITE VICINITY MAP
10226 STATE AVENUE
MARYSVILLE, WASHINGTON

FARALLON PN:1160-001

Drawn By: DEW

Checked By: JR

Date: 12/12/12

Disk Reference: 1160001



LEGEND

--- SITE BOUNDARY

SB-3 ● BORING LOCATION

ET-4s ◆ FORMER SAMPLE LOCATION BY
SNOHOMISH HEALTH DISTRICT (10/1999)

0 50
Scale in feet



FARALLON CONSULTING
975 5th Avenue Northwest
Issaquah, WA 98027

FIGURE 2

SITE MAP SHOWING
BORING LOCATIONS
10226 STATE AVENUE
MARYSVILLE, WASHINGTON

FARALLON PN:1160-001

Drawn By: DEW

Checked By: JR

Date: 2/15/13

Disk Reference: 116001

TABLES

SUBSURFACE INVESTIGATION REPORT

Ed's Transmission
10226 State Avenue
Marysville, Washington

Farallon PN: 1160-001

Table 1
Soil Analytical Results for Petroleum Hydrocarbons
10226 State Avenue
Marysville, Washington
Farallon PN: 1160-001

Location	Sample Identification	Sample Date	Sample Depth (feet) ¹	Analytical Results ² (milligrams per kilogram)	
				DRO	ORO
SB-1	SB-1-1.0	12/28/12	1.0	<83	340
	SB-1-2.5	12/28/12	2.5	<460	1,400
	SB-1-6.0	12/28/12	6.0	<27	<55
SB-2	SB-2-2.0	12/28/12	2.0	<28	<56
	SB-2-8.5	12/28/12	8.5	<28	<56
	SB-2-13.5	12/28/12	13.5	<28	<56
SB-3	SB-3-2.0	12/28/12	2.0	<160	550
	SB-3-8.0	12/28/12	8.0	<27	<55
	SB-3-13.0	12/28/12	13.0	<27	63
SB-4	SB-4-1.5	12/28/12	1.5	<30	<60
	SB-4-7.0	12/28/12	7.0	<27	<54
	SB-4-12.0	12/28/12	12.0	<27	<53
SB-5	SB-5-2.0	12/28/12	2.0	<27	<54
	SB-5-8.0	12/28/12	8.0	<27	<53
	SB-5-13.0	12/28/12	13.0	<28	<56
MTCA Method A Soil Cleanup Levels³				2,000	2,000

NOTES:

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

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

¹Depth in feet below ground surface.

²Analyzed by Northwest Method NWTPH-Dx(with acid/silica gel clean-up).

³Washington 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.

DRO = TPH as diesel-range organics

ORO = TPH as oil-range organics

TPH = total petroleum hydrocarbons

Table 2
Soil Analytical Results for Halogenated Volatile Organic Compounds
10226 State Avenue
Marysville, Washington
Farallon PN: 1160-001

Location	Sample Identification	Sample Date	Sample Depth (feet) ¹	Analytical Results ² (milligrams per kilogram)						
				PCE	TCE	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	Bromomethane
SB-1	SB-1-1.0	12/28/12	1.0	0.0014	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
	SB-1-2.5	12/28/12	2.5	0.0024	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	SB-1-6.0	12/28/12	6.0	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
SB-2	SB-2-2.0	12/28/12	2.0	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	SB-2-8.5	12/28/12	8.5	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	SB-2-13.5	12/28/12	13.5	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
SB-3	SB-3-2.0	12/28/12	2.0	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	SB-3-8.0	12/28/12	8.0	<0.00097	<0.00097	<0.00097	<0.00097	<0.00097	<0.00097	<0.00097
	SB-3-13.0	12/28/12	13.0	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099
SB-4	SB-4-1.5	12/28/12	1.5	<0.078	<0.0011	<0.0011	<0.0011	<0.0011	0.017	0.0012
	SB-4-7.0	12/28/12	7.0	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	SB-4-12.0	12/28/12	12.0	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
SB-5	SB-5-2.0	12/28/12	2.0	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	SB-5-8.0	12/28/12	8.0	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	SB-5-13.0	12/28/12	13.0	<0.00098	<0.00098	<0.00098	<0.00098	<0.00098	<0.00098	<0.00098
MTCA Method A Soil Cleanup Levels³				0.05	0.03	NE	NE	NE	2.0	NE

NOTES:

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

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

² Analyzed by U.S. Environmental Protection Agency Method 8260C.

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.

NE = not established

PCE = tetrachloroethene

TCE = trichloroethene

Table 3
Soil Analytical Results for Total Metals
10226 State Avenue
Marysville, Washington
Farallon PN: 1160-001

Location	Sample Identification	Sample Date	Sample Depth (feet) ¹	Analytical Results ² (milligrams per kilogram)				
				Arsenic	Cadmium	Chromium	Lead	Mercury
SB-1	SB-1-1.0	12/28/12	1.0	<12	0.63	47	260	<0.29
	SB-1-2.5	12/28/12	2.5	<12	1.9	68	1,000	<0.30
	SB-1-6.0	12/28/12	6.0	<11	<0.55	40	18	<0.27
SB-2	SB-2-2.0	12/28/12	2.0	<11	<0.56	40	<5.6	<0.28
	SB-2-8.5	12/28/12	8.5	<11	<0.56	51	<5.6	<0.28
	SB-2-13.5	12/28/12	13.5	<11	<0.56	44	10.0	<0.28
SB-3	SB-3-2.0	12/28/12	2.0	<11	<0.57	59	50	<0.29
	SB-3-8.0	12/28/12	8.0	<11	<0.55	32	11	<0.27
	SB-3-13.0	12/28/12	13.0	18	<0.54	39	8.7	<0.27
SB-4	SB-4-1.5	12/28/12	1.5	<12	<0.60	43	76	<0.30
	SB-4-7.0	12/28/12	7.0	<11	<0.53	38	<5.3	<0.27
	SB-4-12.0	12/28/12	12.0	<11	<0.53	46	<5.3	<0.26
SB-5	SB-5-2.0	12/28/12	2.0	<11	<0.54	41	<5.4	<0.27
	SB-5-8.0	12/28/12	8.0	<11	<0.53	39	<5.3	<0.26
	SB-5-13.0	12/28/12	13.0	<11	<0.56	44	<5.6	<0.28
MTCA Method A Soil Cleanup Levels³				20	2	NE	250	2

NOTES:

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

NE = not established

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

¹Depth in feet below ground surface.

²Analyzed by U.S. Environmental Protection Agency Method 6010C/7471B.

³Washington 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.

Table 4
Groundwater Analytical Results
10226 State Avenue
Marysville, Washington
Farallon PN: 1160-001

Location	Sample Identification	Sample Date	Analytical Results (micrograms per liter)													
			DRO ¹	ORO ¹	PCE ²	TCE ²	cis-1,2-Dichloroethene ²	trans-1,2-Dichloroethene ²	Vinyl Chloride ²	1,1,1-Trichlorethane ²	Bromomethane ²	Arsenic ³	Cadmium ³	Chromium ³	Lead ³	Mercury ³
SB-1	SB-1-122812	12/28/12	<250	1,100	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.33	<3.1	5.3	22	1,300	<0.50
MTCA Method A Cleanup Levels for Ground Water ⁴			500	500	5	5	NE	NE	0.2	200	NE	5	5	50	15	2

NOTES:

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

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

¹Analyzed by Northwest Method NWTPH-Dx(with acid silica gel clean-up).

²Analyzed by U.S. Environmental Protection Agency Method 8260C.

³Analyzed by U.S. Environmental Protection Agency Method 200.8/7470A.

⁴Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Cleanup Levels for Ground Water, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as amended November 2007.

DRO = total petroleum hydrocarbons (TPH) as diesel-range organics

NE = not established

ORO = TPH as oil-range organics

PCE = tetrachloroethene

TCE = trichloroethene

**APPENDIX A
BORING LOGS**

SUBSURFACE INVESTIGATION REPORT

Ed's Transmission
10226 State Avenue
Marysville, Washington

Farallon PN: 1160-001

Client: R.O.M. Holdings	Date/Time Started: 12/28/2012 1153	Sampler Type: 4' Macrocore
Project: Ed's Transmission	Date/Time Completed: 12/28/2012 1217	Drive Hammer (lbs.): Auto
Location: Marysville, Washington	Equipment: Stratoprobe	Depth of Water ATD (ft bgs): NE
Farallon PN: 1160-001	Drilling Company: ESN	Total Boring Depth (ft bgs): 15.0
Logged By: E. Erickson-Mulanax	Drilling Foreman: Noel Knopf	Total Well Depth (ft bgs): NA
	Drilling Method: Direct Push	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.1 Poorly graded GRAVEL (95% gravel, 5% sand), coarse gravel, fine to medium sand, black to dark brown, moist, no odor.	GP							
		0.1-3.0 Silty SAND (80% sand, 20% silt), fine to medium sand, rusty brown to medium brown, moist, no odor, wood debris at 0.5.	SM		75	NA	0.0	SB-2-2.0	X	
5		4.0-7.5 Poorly graded SAND with silt (90% sand, 10% silt), fine to medium sand, medium brown, moist, no odor.	SP-SM		85	NA				
10		8.0-12.0 Silty SAND (85% sand, 15% silt), fine to medium sand, medium brown, moist, slight hydrocarbon-like odor, rusty orange color at 9.0.	SM		100	NA	2.2	SB-2-8.5	X	
		12.0-13.7 Silty SAND (85% sand, 15% silt), fine to medium sand, medium brown, moist, slight hydrocarbon-like odor, coarse black gravel lense at 13.5 with rust colored sand.			90	NA	0.2	SB-2-13.5	X	
		13.7-14.7 SILT (95% silt, 5% sand), fine sand, moist to wet, no odor.	ML							
15										

Well Construction Information				Ground Surface Elevation (ft): NA
Monument Type: NA	Filter Pack: NA	Surface Seal: NA	Annular Seal: NA	Top of Casing Elevation (ft): NA
Casing Diameter (inches): NA				Boring Abandonment: Bentonite
Screen Slot Size (inches): NA				Surveyed Location: X: NA Y: NA
Screened Interval (ft bgs): NA				

Client: R.O.M. Holdings	Date/Time Started: 12/28/2012 1055	Sampler Type: 4' Macrocore
Project: Ed's Transmission	Date/Time Completed: 12/28/2012 1130	Drive Hammer (lbs.): Auto
Location: Marysville, Washington	Equipment: Stratoprobe	Depth of Water ATD (ft bgs): NE
Farallon PN: 1160-001	Drilling Company: ESN	Total Boring Depth (ft bgs): 15.0
Logged By: E. Erickson-Mulanax	Drilling Foreman: Noel Knopf	Total Well Depth (ft bgs): NA
	Drilling Method: Direct Push	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.2 Poorly graded GRAVEL (90% gravel, 10% sand), coarse gravel, fine to medium sand, dark brown, moist, no odor, organic material present.	GP							
		0.2-2.5 Poorly graded SAND with silt (90% sand, 10% silt), fine to medium sand, dark brown to medium brown, moist, no odor.	SP-SM		60	NA	0.3	SB-3-2.0	X	
5		4.0-4.2 Poorly graded GRAVEL (90% gravel, 10% sand), coarse gravel, fine to medium sand, dark brown, moist, no odor.	GP							
		4.2-7.0 Poorly graded SAND (95% sand, 5% silt), fine to medium sand, medium brown, moist, no odor, rust colored lenses at 4.2 and 4.7.	SP							
		8.0-8.5 Poorly graded GRAVEL (90% gravel, 10% sand), coarse gravel, fine to medium sand, dark brown, moist, no odor.	GP		75	NA	0.3	SB-3-8.0	X	
10		8.5-12.0 Poorly graded SAND (95% sand, 5% silt), fine to medium sand, medium brown, moist, no odor, orange lenses at 8.5, large gravel at 10.0.	SP		100	NA				
		12.0-14.0 Poorly graded GRAVEL with sand and silt (60% gravel, 30% sand, 10% silt), coarse gravel, fine to medium sand, medium brown, moist, no odor.	GP		100	NA	1.3	SB-3-13.0	X	
15		14.0-15.0 Poorly graded SAND (95% sand, 5% silt), fine to medium sand, medium brown, moist, no odor.	SP							

Well Construction Information				Ground Surface Elevation (ft): NA
Monument Type: NA	Filter Pack: NA	Surface Seal: NA	Annular Seal: NA	Top of Casing Elevation (ft): NA
Casing Diameter (inches): NA				Boring Abandonment: Bentonite
Screen Slot Size (inches): NA				Surveyed Location: X: NA Y: NA
Screened Interval (ft bgs): NA				

Client: R.O.M. Holdings	Date/Time Started: 12/28/2012 0928	Sampler Type: 4' Macrocore
Project: Ed's Transmission	Date/Time Completed: 12/28/2012 1010	Drive Hammer (lbs.): Auto
Location: Marysville, Washington	Equipment: Stratoprobe	Depth of Water ATD (ft bgs): NE
Farallon PN: 1160-001	Drilling Company: ESN	Total Boring Depth (ft bgs): 15.0
Logged By: E. Erickson-Mulanax	Drilling Foreman: Noel Knopf	Total Well Depth (ft bgs): NA
	Drilling Method: Direct Push	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.1 Asphalt.	AC							
		0.1-1.5 Silty SAND with gravel (65% sand, 20% gravel, 15% silt), fine to medium sand, fine to coarse gravel, dark brown, moist, no odor.	SM							
		1.5-1.7 Silty SAND (80% sand, 20% silt), fine to medium sand, rusty black, moist, no odor.			70	NA	0.0	SB-4-1.5	X	
		1.7-3.3 Silty SAND (80% sand, 20% silt), fine to medium sand, rusty orange to tan to brown, moist, no odor.								
		4.0-7.3 Poorly graded SAND (90% sand, 5% gravel, 5% silt), fine to medium sand, fine gravel, tan to brown, moist, no odor.	SP							
5							0.0	SB-4-7.0	X	
		8.0-15.0 Poorly graded SAND (90% sand, 5% gravel, 5% silt), fine to medium sand, fine to coarse gravel, tan to brown, moist, no odor.	SP		70	NA				
10					100	NA				
							0.0	SB-4-12.0	X	
					100	NA				
15							0.0			

Well Construction Information				Ground Surface Elevation (ft): NA
Monument Type: NA	Filter Pack: NA	Surface Seal: NA	Annular Seal: NA	Top of Casing Elevation (ft): NA
Casing Diameter (inches): NA				Boring Abandonment: Bentonite
Screen Slot Size (inches): NA				Surveyed Location: X: NA Y: NA
Screened Interval (ft bgs): NA				

Client: R.O.M. Holdings	Date/Time Started: 12/28/2012 0819	Sampler Type: 4' Macrocore
Project: Ed's Transmission	Date/Time Completed: 12/28/2012 0849	Drive Hammer (lbs.): Auto
Location: Marysville, Washington	Equipment: Stratoprobe	Depth of Water ATD (ft bgs): NE
Farallon PN: 1160-001	Drilling Company: ESN	Total Boring Depth (ft bgs): 15.0
Logged By: E. Erickson-Mulanax	Drilling Foreman: Noel Knopf	Total Well Depth (ft bgs): NA
	Drilling Method: Direct Push	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.1 Asphalt.	AC							
		0.1-0.5 Silty SAND with gravel (65% sand, 20% gravel, 15% silt), fine to medium sand, fine to coarse gravel, dark brown, moist, no odor.	SM							
		0.5-3.5 Silty SAND (85% sand, 15% silt), fine to medium sand, rusty brown, moist, no odor.			80	NA	0.0	SB-5-2.0	X	
		4.0-4.3 Silty SAND (85% sand, 15% silt), fine to medium sand, rusty brown, moist, no odor.	SM				0.0			
		4.3-4.5 Poorly graded SAND with gravel (75% sand, 20% gravel, 5% silt), fine to medium sand, fine gravel, dark brown, moist, no odor.	SP							
		4.5-8.0 Silty SAND (85% sand, 15% silt), fine to medium sand, tan to brown, moist, no odor.	SM							
		8.0-12.0 Silty SAND (85% sand, 15% silt), fine to medium sand, tan to brown, moist, no odor, 0.1' thick rusty brown silty sand lense at 8.7.			100	NA	0.0	SB-5-8.0	X	
					100	NA				
		12.0-14.0 Silty SAND (85% sand, 15% silt), fine to medium sand, tan to brown, moist, no odor, 0.1' thick rusty brown lense at 13.0.			100	NA	0.0	SB-5-13.0	X	
		14.0-15.0 SILT (95% silt, 5% sand), fine sand, medium brown, moist, no odor, low plasticity.	ML							
15										

Monument Type: NA	Well Construction Information				Ground Surface Elevation (ft): NA
Casing Diameter (inches): NA	Filter Pack: NA	Surface Seal: NA	Annular Seal: NA	Top of Casing Elevation (ft): NA	
Screen Slot Size (inches): NA				Boring Abandonment: Bentonite	
Screened Interval (ft bgs): NA				Surveyed Location: X: NA Y: NA	

APPENDIX B
LABORATORY ANALYTICAL REPORTS

SUBSURFACE INVESTIGATION REPORT

Ed's Transmission
10226 State Avenue
Marysville, Washington

Farallon PN: 1160-001



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 9, 2013

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1160-001
Laboratory Reference No. 1212-174

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on December 28, 2012.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", followed by a long horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: January 9, 2013
Samples Submitted: December 28, 2012
Laboratory Reference: 1212-174
Project: 1160-001

Case Narrative

Samples were collected on December 28, 2012 and received by the laboratory on December 28, 2012. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C (soil) Analysis

Per EPA method 5035A, samples were received by the laboratory in pre-weighed 40 ml VOA vials preserved with either Methanol or Sodium Bisulfate.

Some MTCA Method A cleanup levels are non-achievable for sample SB-4-1.5 due to sample matrix effects.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

NWTPH-Dx
(with acid/silica gel clean-up)

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-1-122812					
Laboratory ID:	12-174-01					
Diesel Range Organics	ND	0.25	NWTPH-Dx	1-2-13	1-2-13	U1
Lube Oil	1.1	0.39	NWTPH-Dx	1-2-13	1-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>94</i>	<i>50-150</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

**NWTPH-Dx
 QUALITY CONTROL
 (with acid/silica gel clean-up)**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0102W1					
Diesel Range Organics	ND	0.13	NWTPH-Dx	1-2-13	1-2-13	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	1-2-13	1-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				

Analyte	Result		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags	
DUPLICATE									
Laboratory ID:	12-174-01								
	ORIG	DUP							
Diesel Range Organics	ND	ND					NA	NA	U1
Lube Oil	1.10	1.07					3	NA	
Surrogate:									
o-Terphenyl			94	91	50-150				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

NWTPH-Dx
(with acid/silica gel clean-up)

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-5-2.0					
Laboratory ID:	12-174-02					
Diesel Range Organics	ND	27	NWTPH-Dx	1-4-13	1-4-13	
Lube Oil Range Organics	ND	54	NWTPH-Dx	1-4-13	1-4-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				

Client ID:	SB-5-8.0					
Laboratory ID:	12-174-03					
Diesel Range Organics	ND	27	NWTPH-Dx	1-4-13	1-4-13	
Lube Oil Range Organics	ND	53	NWTPH-Dx	1-4-13	1-4-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	107	50-150				

Client ID:	SB-5-13.0					
Laboratory ID:	12-174-04					
Diesel Range Organics	ND	28	NWTPH-Dx	1-4-13	1-4-13	
Lube Oil Range Organics	ND	56	NWTPH-Dx	1-4-13	1-4-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	99	50-150				

Client ID:	SB-4-1.5					
Laboratory ID:	12-174-05					
Diesel Range Organics	ND	30	NWTPH-Dx	1-4-13	1-4-13	
Lube Oil Range Organics	ND	60	NWTPH-Dx	1-4-13	1-4-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	98	50-150				

Client ID:	SB-4-7.0					
Laboratory ID:	12-174-06					
Diesel Range Organics	ND	27	NWTPH-Dx	1-4-13	1-4-13	
Lube Oil Range Organics	ND	54	NWTPH-Dx	1-4-13	1-4-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	99	50-150				

Client ID:	SB-4-12.0					
Laboratory ID:	12-174-07					
Diesel Range Organics	ND	27	NWTPH-Dx	1-4-13	1-4-13	
Lube Oil Range Organics	ND	53	NWTPH-Dx	1-4-13	1-4-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	98	50-150				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

NWTPH-Dx
 (with acid/silica gel clean-up)

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-3-2.0					
Laboratory ID:	12-174-08					
Diesel Range Organics	ND	160	NWTPH-Dx	1-4-13	1-4-13	U1
Lube Oil	550	58	NWTPH-Dx	1-4-13	1-4-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>102</i>	<i>50-150</i>				

Client ID:	SB-3-8.0					
Laboratory ID:	12-174-09					
Diesel Range Organics	ND	27	NWTPH-Dx	1-4-13	1-4-13	
Lube Oil Range Organics	ND	55	NWTPH-Dx	1-4-13	1-4-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>97</i>	<i>50-150</i>				

Client ID:	SB-3-13.0					
Laboratory ID:	12-174-10					
Diesel Range Organics	ND	27	NWTPH-Dx	1-4-13	1-4-13	
Lube Oil	63	54	NWTPH-Dx	1-4-13	1-4-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>101</i>	<i>50-150</i>				

Client ID:	SB-2-2.0					
Laboratory ID:	12-174-11					
Diesel Range Organics	ND	28	NWTPH-Dx	1-4-13	1-4-13	
Lube Oil Range Organics	ND	56	NWTPH-Dx	1-4-13	1-4-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>91</i>	<i>50-150</i>				

Client ID:	SB-2-8.5					
Laboratory ID:	12-174-12					
Diesel Range Organics	ND	28	NWTPH-Dx	1-4-13	1-4-13	
Lube Oil Range Organics	ND	56	NWTPH-Dx	1-4-13	1-4-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>90</i>	<i>50-150</i>				

Client ID:	SB-2-13.5					
Laboratory ID:	12-174-13					
Diesel Range Organics	ND	28	NWTPH-Dx	1-4-13	1-4-13	
Lube Oil Range Organics	ND	56	NWTPH-Dx	1-4-13	1-4-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>95</i>	<i>50-150</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

NWTPH-Dx
(with acid/silica gel clean-up)

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-1-1.0					
Laboratory ID:	12-174-14					
Diesel Range Organics	ND	83	NWTPH-Dx	1-4-13	1-4-13	U1
Lube Oil	340	59	NWTPH-Dx	1-4-13	1-4-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	94	50-150				
Client ID:	SB-1-2.5					
Laboratory ID:	12-174-15					
Diesel Range Organics	ND	460	NWTPH-Dx	1-4-13	1-4-13	U1
Lube Oil	1400	61	NWTPH-Dx	1-4-13	1-4-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	100	50-150				
Client ID:	SB-1-6.0					
Laboratory ID:	12-174-16					
Diesel Range Organics	ND	27	NWTPH-Dx	1-4-13	1-4-13	
Lube Oil Range Organics	ND	55	NWTPH-Dx	1-4-13	1-4-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	94	50-150				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

**NWTPH-Dx
 QUALITY CONTROL
 (with acid/silica gel clean-up)**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0104S1					
Diesel Range Organics	ND	25	NWTPH-Dx	1-4-13	1-4-13	
Lube Oil Range Organics	ND	50	NWTPH-Dx	1-4-13	1-4-13	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	105	50-150				

Analyte	Result		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-174-02							
	ORIG	DUP						
Diesel Range Organics	ND	ND					NA	NA
Lube Oil Range Organics	ND	ND					NA	NA
Surrogate:								
o-Terphenyl			92	91	50-150			
Laboratory ID:	12-174-03							
	ORIG	DUP						
Diesel Range Organics	ND	ND					NA	NA
Lube Oil Range Organics	ND	ND					NA	NA
Surrogate:								
o-Terphenyl			107	100	50-150			

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-1-122812					
Laboratory ID:	12-174-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Chloromethane	ND	1.0	EPA 8260C	1-3-13	1-3-13	
Vinyl Chloride	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Bromomethane	ND	0.33	EPA 8260C	1-3-13	1-3-13	
Chloroethane	ND	1.0	EPA 8260C	1-3-13	1-3-13	
Trichlorofluoromethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,1-Dichloroethene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Iodomethane	ND	2.1	EPA 8260C	1-3-13	1-3-13	
Methylene Chloride	ND	1.0	EPA 8260C	1-3-13	1-3-13	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,1-Dichloroethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
2,2-Dichloropropane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Bromochloromethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Chloroform	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Carbon Tetrachloride	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,1-Dichloropropene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,2-Dichloroethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Trichloroethene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,2-Dichloropropane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Dibromomethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Bromodichloromethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	1-3-13	1-3-13	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-3-13	1-3-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-1-122812					
Laboratory ID:	12-174-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Tetrachloroethene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,3-Dichloropropane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Dibromochloromethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,2-Dibromoethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Chlorobenzene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Bromoform	ND	1.0	EPA 8260C	1-3-13	1-3-13	
Bromobenzene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
2-Chlorotoluene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
4-Chlorotoluene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	1-3-13	1-3-13	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Hexachlorobutadiene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,2,3-Trichlorobenzene	ND	0.26	EPA 8260C	1-3-13	1-3-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>66-120</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>63-120</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

**HALOGENATED VOLATILES by EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0103W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Chloromethane	ND	1.0	EPA 8260C	1-3-13	1-3-13	
Vinyl Chloride	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Bromomethane	ND	0.33	EPA 8260C	1-3-13	1-3-13	
Chloroethane	ND	1.0	EPA 8260C	1-3-13	1-3-13	
Trichlorofluoromethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,1-Dichloroethene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Iodomethane	ND	2.1	EPA 8260C	1-3-13	1-3-13	
Methylene Chloride	ND	1.0	EPA 8260C	1-3-13	1-3-13	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,1-Dichloroethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
2,2-Dichloropropane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Bromochloromethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Chloroform	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Carbon Tetrachloride	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,1-Dichloropropene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,2-Dichloroethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Trichloroethene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,2-Dichloropropane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Dibromomethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Bromodichloromethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	1-3-13	1-3-13	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-3-13	1-3-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

**HALOGENATED VOLATILES by EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0103W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Tetrachloroethene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,3-Dichloropropane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Dibromochloromethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,2-Dibromoethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Chlorobenzene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Bromoform	ND	1.0	EPA 8260C	1-3-13	1-3-13	
Bromobenzene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	1-3-13	1-3-13	
2-Chlorotoluene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
4-Chlorotoluene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	1-3-13	1-3-13	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
Hexachlorobutadiene	ND	0.20	EPA 8260C	1-3-13	1-3-13	
1,2,3-Trichlorobenzene	ND	0.26	EPA 8260C	1-3-13	1-3-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>66-120</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>63-120</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
MS/MSD QUALITY CONTROL

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Source	Percent	Recovery		RPD	
					Result	Recovery	Limits	RPD	Limit	Flags
MATRIX SPIKES										
Laboratory ID:	12-173-06									
	MS	MSD				MS	MSD			
1,1-Dichloroethene	11.3	11.4	10.0	10.0	ND	113	114	62-141	1	15
Benzene	10.1	10.5	10.0	10.0	ND	101	105	78-118	4	15
Trichloroethene	10.3	10.5	10.0	10.0	ND	103	105	80-115	2	15
Toluene	14.2	13.8	10.0	10.0	3.79	104	100	80-116	3	15
Chlorobenzene	11.0	10.3	10.0	10.0	ND	110	103	80-118	7	15
Surrogate:										
Dibromofluoromethane						89	102	66-120		
Toluene-d8						93	95	70-120		
4-Bromofluorobenzene						98	104	63-120		

Date of Report: January 9, 2013
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 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-5-2.0					
Laboratory ID:	12-174-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chloromethane	ND	0.0056	EPA 8260C	1-2-13	1-2-13	
Vinyl Chloride	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromomethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chloroethane	ND	0.0072	EPA 8260C	1-2-13	1-2-13	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Iodomethane	ND	0.0056	EPA 8260C	1-2-13	1-2-13	
Methylene Chloride	ND	0.0056	EPA 8260C	1-2-13	1-2-13	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromochloromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chloroform	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Trichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Dibromomethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromodichloromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	1-2-13	1-2-13	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-5-2.0					
Laboratory ID:	12-174-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Tetrachloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Dibromochloromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromoform	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
2-Chlorotoluene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
4-Chlorotoluene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	1-2-13	1-2-13	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>52-125</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-5-8.0					
Laboratory ID:	12-174-03					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chloromethane	ND	0.0057	EPA 8260C	1-2-13	1-2-13	
Vinyl Chloride	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromomethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chloroethane	ND	0.0073	EPA 8260C	1-2-13	1-2-13	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Iodomethane	ND	0.0057	EPA 8260C	1-2-13	1-2-13	
Methylene Chloride	ND	0.0057	EPA 8260C	1-2-13	1-2-13	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromochloromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chloroform	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Trichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Dibromomethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromodichloromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	1-2-13	1-2-13	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-5-8.0					
Laboratory ID:	12-174-03					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Tetrachloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Dibromochloromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromoform	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
2-Chlorotoluene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
4-Chlorotoluene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	1-2-13	1-2-13	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>52-125</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-5-13.0					
Laboratory ID:	12-174-04					
Dichlorodifluoromethane	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
Chloromethane	ND	0.0049	EPA 8260C	1-2-13	1-2-13	
Vinyl Chloride	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
Bromomethane	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
Chloroethane	ND	0.0063	EPA 8260C	1-2-13	1-2-13	
Trichlorofluoromethane	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethene	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
Iodomethane	ND	0.0049	EPA 8260C	1-2-13	1-2-13	
Methylene Chloride	ND	0.0049	EPA 8260C	1-2-13	1-2-13	
(trans) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethane	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
2,2-Dichloropropane	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
(cis) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
Bromochloromethane	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
Chloroform	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
1,1,1-Trichloroethane	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
Carbon Tetrachloride	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloropropene	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloroethane	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
Trichloroethene	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloropropane	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
Dibromomethane	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
Bromodichloromethane	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	1-2-13	1-2-13	
(cis) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
(trans) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	1-2-13	1-2-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-5-13.0					
Laboratory ID:	12-174-04					
1,1,2-Trichloroethane	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
Tetrachloroethene	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
1,3-Dichloropropane	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
Dibromochloromethane	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromoethane	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
Chlorobenzene	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
1,1,1,2-Tetrachloroethane	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
Bromoform	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
Bromobenzene	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
1,1,2,2-Tetrachloroethane	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichloropropane	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
2-Chlorotoluene	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
4-Chlorotoluene	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
1,3-Dichlorobenzene	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
1,4-Dichlorobenzene	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
1,2-Dichlorobenzene	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	1-2-13	1-2-13	
1,2,4-Trichlorobenzene	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichlorobenzene	ND	0.00098	EPA 8260C	1-2-13	1-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>52-125</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-4-1.5					
Laboratory ID:	12-174-05					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Chloromethane	ND	0.0053	EPA 8260C	1-3-13	1-3-13	
Vinyl Chloride	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Bromomethane	0.0012	0.0011	EPA 8260C	1-3-13	1-3-13	
Chloroethane	ND	0.0070	EPA 8260C	1-3-13	1-3-13	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Iodomethane	ND	0.0053	EPA 8260C	1-3-13	1-3-13	
Methylene Chloride	ND	0.0053	EPA 8260C	1-3-13	1-3-13	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Bromochloromethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Chloroform	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,1,1-Trichloroethane	0.017	0.0011	EPA 8260C	1-3-13	1-3-13	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Trichloroethene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Dibromomethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Bromodichloromethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	1-3-13	1-3-13	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
(trans) 1,3-Dichloropropene	ND	0.078	EPA 8260C	1-3-13	1-3-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-4-1.5					
Laboratory ID:	12-174-05					
1,1,2-Trichloroethane	ND	0.078	EPA 8260C	1-3-13	1-3-13	
Tetrachloroethene	ND	0.078	EPA 8260C	1-3-13	1-3-13	
1,3-Dichloropropane	ND	0.078	EPA 8260C	1-3-13	1-3-13	
Dibromochloromethane	ND	0.078	EPA 8260C	1-3-13	1-3-13	
1,2-Dibromoethane	ND	0.078	EPA 8260C	1-3-13	1-3-13	
Chlorobenzene	ND	0.078	EPA 8260C	1-3-13	1-3-13	
1,1,1,2-Tetrachloroethane	ND	0.078	EPA 8260C	1-3-13	1-3-13	
Bromoform	ND	0.078	EPA 8260C	1-3-13	1-3-13	
Bromobenzene	ND	0.078	EPA 8260C	1-3-13	1-3-13	
1,1,2,2-Tetrachloroethane	ND	0.078	EPA 8260C	1-3-13	1-3-13	
1,2,3-Trichloropropane	ND	0.078	EPA 8260C	1-3-13	1-3-13	
2-Chlorotoluene	ND	0.078	EPA 8260C	1-3-13	1-3-13	
4-Chlorotoluene	ND	0.078	EPA 8260C	1-3-13	1-3-13	
1,3-Dichlorobenzene	ND	0.078	EPA 8260C	1-3-13	1-3-13	
1,4-Dichlorobenzene	ND	0.078	EPA 8260C	1-3-13	1-3-13	
1,2-Dichlorobenzene	ND	0.078	EPA 8260C	1-3-13	1-3-13	
1,2-Dibromo-3-chloropropane	ND	0.39	EPA 8260C	1-3-13	1-3-13	
1,2,4-Trichlorobenzene	ND	0.078	EPA 8260C	1-3-13	1-3-13	
Hexachlorobutadiene	ND	0.39	EPA 8260C	1-3-13	1-3-13	
1,2,3-Trichlorobenzene	ND	0.078	EPA 8260C	1-3-13	1-3-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>125</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>52-125</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-4-7.0					
Laboratory ID:	12-174-06					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Chloromethane	ND	0.0060	EPA 8260C	1-2-13	1-2-13	
Vinyl Chloride	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Bromomethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Chloroethane	ND	0.0077	EPA 8260C	1-2-13	1-2-13	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Iodomethane	ND	0.0060	EPA 8260C	1-2-13	1-2-13	
Methylene Chloride	ND	0.0060	EPA 8260C	1-2-13	1-2-13	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Bromochloromethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Chloroform	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Trichloroethene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Dibromomethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Bromodichloromethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260C	1-2-13	1-2-13	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-4-7.0					
Laboratory ID:	12-174-06					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Tetrachloroethene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Dibromochloromethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Chlorobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Bromoform	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Bromobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
2-Chlorotoluene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
4-Chlorotoluene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260C	1-2-13	1-2-13	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Hexachlorobutadiene	ND	0.0060	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>52-125</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-4-12.0					
Laboratory ID:	12-174-07					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chloromethane	ND	0.0053	EPA 8260C	1-2-13	1-2-13	
Vinyl Chloride	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromomethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chloroethane	ND	0.0068	EPA 8260C	1-2-13	1-2-13	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Iodomethane	ND	0.0053	EPA 8260C	1-2-13	1-2-13	
Methylene Chloride	ND	0.0053	EPA 8260C	1-2-13	1-2-13	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromochloromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chloroform	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Trichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Dibromomethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromodichloromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	1-2-13	1-2-13	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-4-12.0					
Laboratory ID:	12-174-07					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Tetrachloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Dibromochloromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromoform	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
2-Chlorotoluene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
4-Chlorotoluene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	1-2-13	1-2-13	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>52-125</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-3-2.0					
Laboratory ID:	12-174-08					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chloromethane	ND	0.0055	EPA 8260C	1-2-13	1-2-13	
Vinyl Chloride	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromomethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chloroethane	ND	0.0071	EPA 8260C	1-2-13	1-2-13	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Iodomethane	ND	0.0055	EPA 8260C	1-2-13	1-2-13	
Methylene Chloride	ND	0.0055	EPA 8260C	1-2-13	1-2-13	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromochloromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chloroform	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Trichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Dibromomethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromodichloromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	1-2-13	1-2-13	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-3-2.0					
Laboratory ID:	12-174-08					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Tetrachloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Dibromochloromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromoform	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
2-Chlorotoluene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
4-Chlorotoluene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	1-2-13	1-2-13	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>52-125</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-3-8.0					
Laboratory ID:	12-174-09					
Dichlorodifluoromethane	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
Chloromethane	ND	0.0048	EPA 8260C	1-2-13	1-2-13	
Vinyl Chloride	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
Bromomethane	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
Chloroethane	ND	0.0062	EPA 8260C	1-2-13	1-2-13	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethene	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
Iodomethane	ND	0.0048	EPA 8260C	1-2-13	1-2-13	
Methylene Chloride	ND	0.0048	EPA 8260C	1-2-13	1-2-13	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethane	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
Bromochloromethane	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
Chloroform	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
Trichloroethene	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
Dibromomethane	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
Bromodichloromethane	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	1-2-13	1-2-13	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	1-2-13	1-2-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-3-8.0					
Laboratory ID:	12-174-09					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
Tetrachloroethene	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
Dibromochloromethane	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
Chlorobenzene	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
Bromoform	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
Bromobenzene	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
2-Chlorotoluene	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
4-Chlorotoluene	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	1-2-13	1-2-13	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260C	1-2-13	1-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>52-125</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-3-13.0					
Laboratory ID:	12-174-10					
Dichlorodifluoromethane	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
Chloromethane	ND	0.0049	EPA 8260C	1-2-13	1-2-13	
Vinyl Chloride	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
Bromomethane	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
Chloroethane	ND	0.0063	EPA 8260C	1-2-13	1-2-13	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
Iodomethane	ND	0.0049	EPA 8260C	1-2-13	1-2-13	
Methylene Chloride	ND	0.0049	EPA 8260C	1-2-13	1-2-13	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
Bromochloromethane	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
Chloroform	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
Trichloroethene	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloropropane	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
Dibromomethane	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
Bromodichloromethane	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	1-2-13	1-2-13	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	1-2-13	1-2-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-3-13.0					
Laboratory ID:	12-174-10					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
Tetrachloroethene	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
Dibromochloromethane	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
Chlorobenzene	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
Bromoform	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
Bromobenzene	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
2-Chlorotoluene	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
4-Chlorotoluene	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	1-2-13	1-2-13	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	1-2-13	1-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>52-125</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-2-2.0					
Laboratory ID:	12-174-11					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Chloromethane	ND	0.0059	EPA 8260C	1-2-13	1-2-13	
Vinyl Chloride	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Bromomethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Chloroethane	ND	0.0075	EPA 8260C	1-2-13	1-2-13	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Iodomethane	ND	0.0059	EPA 8260C	1-2-13	1-2-13	
Methylene Chloride	ND	0.0059	EPA 8260C	1-2-13	1-2-13	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Bromochloromethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Chloroform	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Trichloroethene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Dibromomethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Bromodichloromethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260C	1-2-13	1-2-13	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-2-2.0					
Laboratory ID:	12-174-11					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Tetrachloroethene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Dibromochloromethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Chlorobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Bromoform	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Bromobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
2-Chlorotoluene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
4-Chlorotoluene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260C	1-2-13	1-2-13	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Hexachlorobutadiene	ND	0.0059	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>52-125</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-2-8.5					
Laboratory ID:	12-174-12					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Chloromethane	ND	0.0054	EPA 8260C	1-3-13	1-3-13	
Vinyl Chloride	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Bromomethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Chloroethane	ND	0.0071	EPA 8260C	1-3-13	1-3-13	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Iodomethane	ND	0.0054	EPA 8260C	1-3-13	1-3-13	
Methylene Chloride	ND	0.0054	EPA 8260C	1-3-13	1-3-13	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Bromochloromethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Chloroform	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Trichloroethene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Dibromomethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Bromodichloromethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	1-3-13	1-3-13	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-2-8.5					
Laboratory ID:	12-174-12					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Tetrachloroethene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Dibromochloromethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Chlorobenzene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Bromoform	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Bromobenzene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
2-Chlorotoluene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
4-Chlorotoluene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	1-3-13	1-3-13	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	1-3-13	1-3-13	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	1-3-13	1-3-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>52-125</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-2-13.5					
Laboratory ID:	12-174-13					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chloromethane	ND	0.0056	EPA 8260C	1-2-13	1-2-13	
Vinyl Chloride	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromomethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chloroethane	ND	0.0071	EPA 8260C	1-2-13	1-2-13	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Iodomethane	ND	0.0056	EPA 8260C	1-2-13	1-2-13	
Methylene Chloride	ND	0.0056	EPA 8260C	1-2-13	1-2-13	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromochloromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chloroform	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Trichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Dibromomethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromodichloromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	1-2-13	1-2-13	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-2-13.5					
Laboratory ID:	12-174-13					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Tetrachloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Dibromochloromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromoform	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
2-Chlorotoluene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
4-Chlorotoluene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	1-2-13	1-2-13	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>52-125</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-1-1.0					
Laboratory ID:	12-174-14					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
Chloromethane	ND	0.0063	EPA 8260C	1-2-13	1-2-13	
Vinyl Chloride	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
Bromomethane	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
Chloroethane	ND	0.0080	EPA 8260C	1-2-13	1-2-13	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
Iodomethane	ND	0.0063	EPA 8260C	1-2-13	1-2-13	
Methylene Chloride	ND	0.0063	EPA 8260C	1-2-13	1-2-13	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
Bromochloromethane	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
Chloroform	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
Trichloroethene	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
Dibromomethane	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
Bromodichloromethane	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	1-2-13	1-2-13	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	1-2-13	1-2-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-1-1.0					
Laboratory ID:	12-174-14					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
Tetrachloroethene	0.0014	0.0013	EPA 8260C	1-2-13	1-2-13	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
Dibromochloromethane	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
Chlorobenzene	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
Bromoform	ND	0.0013	EPA 8260C	1-2-13	1-2-13	
Bromobenzene	ND	0.065	EPA 8260C	1-3-13	1-3-13	
1,1,2,2-Tetrachloroethane	ND	0.065	EPA 8260C	1-3-13	1-3-13	
1,2,3-Trichloropropane	ND	0.065	EPA 8260C	1-3-13	1-3-13	
2-Chlorotoluene	ND	0.065	EPA 8260C	1-3-13	1-3-13	
4-Chlorotoluene	ND	0.065	EPA 8260C	1-3-13	1-3-13	
1,3-Dichlorobenzene	ND	0.065	EPA 8260C	1-3-13	1-3-13	
1,4-Dichlorobenzene	ND	0.065	EPA 8260C	1-3-13	1-3-13	
1,2-Dichlorobenzene	ND	0.065	EPA 8260C	1-3-13	1-3-13	
1,2-Dibromo-3-chloropropane	ND	0.32	EPA 8260C	1-3-13	1-3-13	
1,2,4-Trichlorobenzene	ND	0.065	EPA 8260C	1-3-13	1-3-13	
Hexachlorobutadiene	ND	0.32	EPA 8260C	1-3-13	1-3-13	
1,2,3-Trichlorobenzene	ND	0.065	EPA 8260C	1-3-13	1-3-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>52-125</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-1-2.5					
Laboratory ID:	12-174-15					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chloromethane	ND	0.0054	EPA 8260C	1-2-13	1-2-13	
Vinyl Chloride	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromomethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chloroethane	ND	0.0069	EPA 8260C	1-2-13	1-2-13	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Iodomethane	ND	0.0054	EPA 8260C	1-2-13	1-2-13	
Methylene Chloride	ND	0.0054	EPA 8260C	1-2-13	1-2-13	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromochloromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chloroform	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Trichloroethene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Dibromomethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromodichloromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	1-2-13	1-2-13	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-1-2.5					
Laboratory ID:	12-174-15					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Tetrachloroethene	0.0024	0.0011	EPA 8260C	1-2-13	1-2-13	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Dibromochloromethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Chlorobenzene	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromoform	ND	0.0011	EPA 8260C	1-2-13	1-2-13	
Bromobenzene	ND	0.065	EPA 8260C	1-3-13	1-3-13	
1,1,2,2-Tetrachloroethane	ND	0.065	EPA 8260C	1-3-13	1-3-13	
1,2,3-Trichloropropane	ND	0.065	EPA 8260C	1-3-13	1-3-13	
2-Chlorotoluene	ND	0.065	EPA 8260C	1-3-13	1-3-13	
4-Chlorotoluene	ND	0.065	EPA 8260C	1-3-13	1-3-13	
1,3-Dichlorobenzene	ND	0.065	EPA 8260C	1-3-13	1-3-13	
1,4-Dichlorobenzene	ND	0.065	EPA 8260C	1-3-13	1-3-13	
1,2-Dichlorobenzene	ND	0.065	EPA 8260C	1-3-13	1-3-13	
1,2-Dibromo-3-chloropropane	ND	0.33	EPA 8260C	1-3-13	1-3-13	
1,2,4-Trichlorobenzene	ND	0.065	EPA 8260C	1-3-13	1-3-13	
Hexachlorobutadiene	ND	0.33	EPA 8260C	1-3-13	1-3-13	
1,2,3-Trichlorobenzene	ND	0.065	EPA 8260C	1-3-13	1-3-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>88</i>	<i>52-125</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-1-6.0					
Laboratory ID:	12-174-16					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Chloromethane	ND	0.0058	EPA 8260C	1-2-13	1-2-13	
Vinyl Chloride	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Bromomethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Chloroethane	ND	0.0074	EPA 8260C	1-2-13	1-2-13	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Iodomethane	ND	0.0058	EPA 8260C	1-2-13	1-2-13	
Methylene Chloride	ND	0.0058	EPA 8260C	1-2-13	1-2-13	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Bromochloromethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Chloroform	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Trichloroethene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Dibromomethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Bromodichloromethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	1-2-13	1-2-13	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-1-6.0					
Laboratory ID:	12-174-16					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Tetrachloroethene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Dibromochloromethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Chlorobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Bromoform	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Bromobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
2-Chlorotoluene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
4-Chlorotoluene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	1-2-13	1-2-13	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	1-2-13	1-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>52-125</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0102S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
Chloromethane	ND	0.0050	EPA 8260C	1-2-13	1-2-13	
Vinyl Chloride	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
Bromomethane	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
Chloroethane	ND	0.0064	EPA 8260C	1-2-13	1-2-13	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
Iodomethane	ND	0.0050	EPA 8260C	1-2-13	1-2-13	
Methylene Chloride	ND	0.0050	EPA 8260C	1-2-13	1-2-13	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
Bromochloromethane	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
Chloroform	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
Trichloroethene	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
Dibromomethane	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
Bromodichloromethane	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	1-2-13	1-2-13	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	1-2-13	1-2-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

**HALOGENATED VOLATILES by EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0102S1						
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
Tetrachloroethene	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
Dibromochloromethane	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
Chlorobenzene	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
Bromoform	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
Bromobenzene	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
2-Chlorotoluene	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
4-Chlorotoluene	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	1-2-13	1-2-13	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	1-2-13	1-2-13	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	1-2-13	1-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>52-125</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

**HALOGENATED VOLATILES by EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0103S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
Chloromethane	ND	0.0050	EPA 8260C	1-3-13	1-3-13	
Vinyl Chloride	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
Bromomethane	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
Chloroethane	ND	0.0066	EPA 8260C	1-3-13	1-3-13	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
Iodomethane	ND	0.0050	EPA 8260C	1-3-13	1-3-13	
Methylene Chloride	ND	0.0050	EPA 8260C	1-3-13	1-3-13	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
Bromochloromethane	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
Chloroform	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
Trichloroethene	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
Dibromomethane	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
Bromodichloromethane	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	1-3-13	1-3-13	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	1-3-13	1-3-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

**HALOGENATED VOLATILES by EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0103S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
Tetrachloroethene	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
Dibromochloromethane	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
Chlorobenzene	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
Bromoform	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
Bromobenzene	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
2-Chlorotoluene	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
4-Chlorotoluene	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	1-3-13	1-3-13	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	1-3-13	1-3-13	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	1-3-13	1-3-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>52-125</i>				

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB0102S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0519	0.0558	0.0500	0.0500	104	112	65-141	7	15	
Benzene	0.0481	0.0518	0.0500	0.0500	96	104	69-121	7	15	
Trichloroethene	0.0413	0.0458	0.0500	0.0500	83	92	75-120	10	15	
Toluene	0.0444	0.0489	0.0500	0.0500	89	98	75-120	10	15	
Chlorobenzene	0.0447	0.0496	0.0500	0.0500	89	99	75-120	10	15	
Surrogate:										
Dibromofluoromethane					103	99	63-127			
Toluene-d8					101	98	65-129			
4-Bromofluorobenzene					94	94	52-125			

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

HALOGENATED VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent		Recovery		RPD	
					Recovery		Limits		RPD	Limit
SPIKE BLANKS										
Laboratory ID:	SB0103S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0554	0.0585	0.0500	0.0500	111	117	65-141	5	15	
Benzene	0.0533	0.0563	0.0500	0.0500	107	113	69-121	5	15	
Trichloroethene	0.0479	0.0504	0.0500	0.0500	96	101	75-120	5	15	
Toluene	0.0515	0.0542	0.0500	0.0500	103	108	75-120	5	15	
Chlorobenzene	0.0522	0.0536	0.0500	0.0500	104	107	75-120	3	15	
Surrogate:										
Dibromofluoromethane					100	105	63-127			
Toluene-d8					100	104	65-129			
4-Bromofluorobenzene					96	100	52-125			

Date of Report: January 9, 2013
Samples Submitted: December 28, 2012
Laboratory Reference: 1212-174
Project: 1160-001

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date	Date	Flags
				Prepared	Analyzed	
Lab ID:	12-174-01					
Client ID:	SB-1-122812					
Arsenic	ND	3.1	200.8	1-3-13	1-8-13	
Cadmium	5.3	4.0	200.8	1-3-13	1-8-13	
Chromium	22	10	200.8	1-3-13	1-8-13	
Lead	1300	1.0	200.8	1-3-13	1-8-13	
Mercury	ND	0.50	7470A	1-3-13	1-3-13	

Date of Report: January 9, 2013
Samples Submitted: December 28, 2012
Laboratory Reference: 1212-174
Project: 1160-001

**TOTAL METALS
EPA 200.8/7470A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 1-3-13
Date Analyzed: 1-3&8-13

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0103W1&MB0103WH2

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.1
Cadmium	200.8	ND	4.0
Chromium	200.8	ND	10
Lead	200.8	ND	1.0
Mercury	7470A	ND	0.50

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

**TOTAL METALS
 EPA 200.8/7470A
 DUPLICATE QUALITY CONTROL**

Date Extracted: 1-3-13
 Date Analyzed: 1-3&8-13

 Matrix: Water
 Units: ug/L (ppb)

 Lab ID: 12-174-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	3.1	
Cadmium	5.34	5.28	1	4.0	
Chromium	22.1	21.9	1	10	
Lead	1300	1300	0	1.0	
Mercury	ND	ND	NA	0.50	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

**TOTAL METALS
 EPA 200.8/7470A
 MS/MSD QUALITY CONTROL**

Date Extracted: 1-3-13
 Date Analyzed: 1-3&8-13

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 12-174-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	97.3	97	98.9	99	2	
Cadmium	100	98.9	94	101	95	2	
Chromium	100	106	84	108	86	1	
Lead	100	1390	87	1390	87	0	
Mercury	12.5	11.7	94	11.9	95	2	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	12-174-02					
Client ID:	SB-5-2.0					
Arsenic	ND	11	6010C	1-3-13	1-4-13	
Cadmium	ND	0.54	6010C	1-3-13	1-4-13	
Chromium	41	0.54	6010C	1-3-13	1-4-13	
Lead	ND	5.4	6010C	1-3-13	1-4-13	
Mercury	ND	0.27	7471B	1-3-13	1-3-13	
Lab ID:	12-174-03					
Client ID:	SB-5-8.0					
Arsenic	ND	11	6010C	1-3-13	1-3-13	
Cadmium	ND	0.53	6010C	1-3-13	1-3-13	
Chromium	39	0.53	6010C	1-3-13	1-3-13	
Lead	ND	5.3	6010C	1-3-13	1-3-13	
Mercury	ND	0.26	7471B	1-3-13	1-3-13	
Lab ID:	12-174-04					
Client ID:	SB-5-13.0					
Arsenic	ND	11	6010C	1-3-13	1-3-13	
Cadmium	ND	0.56	6010C	1-3-13	1-3-13	
Chromium	44	0.56	6010C	1-3-13	1-3-13	
Lead	ND	5.6	6010C	1-3-13	1-3-13	
Mercury	ND	0.28	7471B	1-3-13	1-3-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	12-174-05					
Client ID:	SB-4-1.5					
Arsenic	ND	12	6010C	1-3-13	1-3-13	
Cadmium	ND	0.60	6010C	1-3-13	1-3-13	
Chromium	43	0.60	6010C	1-3-13	1-3-13	
Lead	76	6.0	6010C	1-3-13	1-3-13	
Mercury	ND	0.30	7471B	1-3-13	1-3-13	

Lab ID:	12-174-06					
Client ID:	SB-4-7.0					
Arsenic	ND	11	6010C	1-3-13	1-3-13	
Cadmium	ND	0.53	6010C	1-3-13	1-3-13	
Chromium	38	0.53	6010C	1-3-13	1-3-13	
Lead	ND	5.3	6010C	1-3-13	1-3-13	
Mercury	ND	0.27	7471B	1-3-13	1-3-13	

Lab ID:	12-174-07					
Client ID:	SB-4-12.0					
Arsenic	ND	11	6010C	1-3-13	1-3-13	
Cadmium	ND	0.53	6010C	1-3-13	1-3-13	
Chromium	46	0.53	6010C	1-3-13	1-3-13	
Lead	ND	5.3	6010C	1-3-13	1-3-13	
Mercury	ND	0.26	7471B	1-3-13	1-3-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	12-174-08					
Client ID:	SB-3-2.0					
Arsenic	ND	11	6010C	1-3-13	1-3-13	
Cadmium	ND	0.57	6010C	1-3-13	1-3-13	
Chromium	59	0.57	6010C	1-3-13	1-3-13	
Lead	50	5.7	6010C	1-3-13	1-3-13	
Mercury	ND	0.29	7471B	1-3-13	1-3-13	

Lab ID:	12-174-09					
Client ID:	SB-3-8.0					
Arsenic	ND	11	6010C	1-3-13	1-3-13	
Cadmium	ND	0.55	6010C	1-3-13	1-3-13	
Chromium	32	0.55	6010C	1-3-13	1-3-13	
Lead	11	5.5	6010C	1-3-13	1-3-13	
Mercury	ND	0.27	7471B	1-3-13	1-3-13	

Lab ID:	12-174-10					
Client ID:	SB-3-13.0					
Arsenic	18	11	6010C	1-3-13	1-3-13	
Cadmium	ND	0.54	6010C	1-3-13	1-3-13	
Chromium	39	0.54	6010C	1-3-13	1-3-13	
Lead	8.7	5.4	6010C	1-3-13	1-3-13	
Mercury	ND	0.27	7471B	1-3-13	1-3-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	12-174-11					
Client ID:	SB-2-2.0					
Arsenic	ND	11	6010C	1-3-13	1-3-13	
Cadmium	ND	0.56	6010C	1-3-13	1-3-13	
Chromium	40	0.56	6010C	1-3-13	1-3-13	
Lead	ND	5.6	6010C	1-3-13	1-3-13	
Mercury	ND	0.28	7471B	1-3-13	1-3-13	

Lab ID:	12-174-12					
Client ID:	SB-2-8.5					
Arsenic	ND	11	6010C	1-3-13	1-3-13	
Cadmium	ND	0.56	6010C	1-3-13	1-3-13	
Chromium	51	0.56	6010C	1-3-13	1-3-13	
Lead	ND	5.6	6010C	1-3-13	1-3-13	
Mercury	ND	0.28	7471B	1-3-13	1-3-13	

Lab ID:	12-174-13					
Client ID:	SB-2-13.5					
Arsenic	ND	11	6010C	1-3-13	1-3-13	
Cadmium	ND	0.56	6010C	1-3-13	1-3-13	
Chromium	44	0.56	6010C	1-3-13	1-3-13	
Lead	10	5.6	6010C	1-3-13	1-3-13	
Mercury	ND	0.28	7471B	1-3-13	1-3-13	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	12-174-14					
Client ID:	SB-1-1.0					
Arsenic	ND	12	6010C	1-3-13	1-3-13	
Cadmium	0.63	0.59	6010C	1-3-13	1-3-13	
Chromium	47	0.59	6010C	1-3-13	1-3-13	
Lead	260	5.9	6010C	1-3-13	1-3-13	
Mercury	ND	0.29	7471B	1-3-13	1-3-13	

Lab ID:	12-174-15					
Client ID:	SB-1-2.5					
Arsenic	ND	12	6010C	1-3-13	1-3-13	
Cadmium	1.9	0.61	6010C	1-3-13	1-3-13	
Chromium	68	0.61	6010C	1-3-13	1-3-13	
Lead	1000	6.1	6010C	1-3-13	1-3-13	
Mercury	ND	0.30	7471B	1-3-13	1-3-13	

Lab ID:	12-174-16					
Client ID:	SB-1-6.0					
Arsenic	ND	11	6010C	1-3-13	1-3-13	
Cadmium	ND	0.55	6010C	1-3-13	1-3-13	
Chromium	40	0.55	6010C	1-3-13	1-3-13	
Lead	18	5.5	6010C	1-3-13	1-3-13	
Mercury	ND	0.27	7471B	1-3-13	1-3-13	

Date of Report: January 9, 2013
Samples Submitted: December 28, 2012
Laboratory Reference: 1212-174
Project: 1160-001

**TOTAL METALS
EPA 6010C/7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 1-3-13
Date Analyzed: 1-3&4-13

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0103SM1&MB0103S1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25

Date of Report: January 9, 2013
Samples Submitted: December 28, 2012
Laboratory Reference: 1212-174
Project: 1160-001

**TOTAL METALS
EPA 6010C/7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 1-3-13
Date Analyzed: 1-3&4-13

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 12-174-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Cadmium	ND	ND	NA	0.50	
Chromium	38.2	38.9	2	0.50	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	

Date of Report: January 9, 2013
 Samples Submitted: December 28, 2012
 Laboratory Reference: 1212-174
 Project: 1160-001

**TOTAL METALS
 EPA 6010C/7471B
 MS/MSD QUALITY CONTROL**

Date Extracted: 1-3-13
 Date Analyzed: 1-3&4-13

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 12-174-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	92.7	93	92.7	93	0	
Cadmium	50.0	47.4	95	47.8	96	1	
Chromium	100	133	95	133	95	0	
Lead	250	224	89	225	90	0	
Mercury	0.500	0.429	86	0.445	89	4	

Date of Report: January 9, 2013
Samples Submitted: December 28, 2012
Laboratory Reference: 1212-174
Project: 1160-001

% MOISTURE

Date Analyzed: 1-2-13

Client ID	Lab ID	% Moisture
SB-5-2.0	12-174-02	7
SB-5-8.0	12-174-03	6
SB-5-13.0	12-174-04	11
SB-4-1.5	12-174-05	17
SB-4-7.0	12-174-06	7
SB-4-12.0	12-174-07	6
SB-3-2.0	12-174-08	13
SB-3-8.0	12-174-09	9
SB-3-13.0	12-174-10	7
SB-2-2.0	12-174-11	11
SB-2-8.5	12-174-12	10
SB-2-13.5	12-174-13	11
SB-1-1.0	12-174-14	15
SB-1-2.5	12-174-15	18
SB-1-6.0	12-174-16	9



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



ANALYTICAL LABORATORY TESTING SERVICES
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

2-1

12-174

Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com				Turnaround Request (in working days)		Laboratory Number:														
Company: Favallan Project Number: 1160-001 Project Name: Edco Transmission Project Manager: Savan Sivank Sampled by: Emad El-Ghazal				(Check One) ☐ Same Day ☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ Standard (7 Days) (TPH analysis 5 Days)		Number of Containers														
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals <u>MTCA Metals</u> (circle one)	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1	SB-1-122812	12/8/12	1340	soil	6			X	X	X							X			X
2	SB-5-2.0		0905	soil	5			X	X	X							X			X
3	SB-5-8.0		0910					X	X	X							X			X
4	SB-5-13.0		0915					X	X	X							X			X
5	SB-4-1.5		0955					X	X	X							X			X
6	SB-4-7.0		1000					X	X	X							X			X
7	SB-4-12.0		1015					X	X	X							X			X
8	SB-3-2.0		1120					X	X	X							X			X
9	SB-3-8.0		1125					X	X	X							X			X
10	SB-3-13.0		1140					X	X	X							X			X
Signature: <i>[Signature]</i> Company: Favallan Date: 12/8/12 Time: 1700				Comments/Special Instructions: Hold All. Will call with analyst. X - Requested 1/2/13. DB (5th)																

Chain of Custody

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.on-site-env.com

Laboratory Number:

12-174

Turnaround Request
(in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)
(TPH analysis 5 Days)

☐ _____
(other)

Number of Containers

NWTPH-HCID

NWTPH-Gx/BTEX

NWTPH-Gx

NWTPH-Dx

Volatiles 8260C

Halogenated Volatiles 8260C

Semivolatiles 8270D/SIM
(with low-level PAHs)

PAHs 8270D/SIM (low-level)

PCBs 8082A

Organochlorine Pesticides 8081B

Organophosphorus Pesticides 8270D/SIM

Chlorinated Acid Herbicides 8151A

Total RCRA Metals MTCA Metals (circle one)

TCLP Metals

HEM (oil and grease) 1664A

% Moisture

Company:

Faveller

Project Number:

1160-201

Project Name:

ECS TRANSMISSION

Project Manager:

JASON RIBAK

Sampled by:

General Eustice-Mulango

Lab ID

Sample Identification

Date Sampled

Time Sampled

Matrix

5

11 GB-2-2.0

12/26/12

1220

Soil

12 GB-2-8.5

1225

13 GB-2-13.5

1230

14 GB-1-1.0

1317

15 GB-1-2.5

1322

16 GB-1-6.0

1327

SEVEN

Signature

Company

Date

Time

Comments/Special Instructions

Relinquished

General Eustice-Mulango

Faveller

12/26/12

1700

Relinquished

CE

12/26/12

1700

Received

Relinquished

Received

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

X - Added 1/2/13. D3 (STA)



**SNOHOMISH
HEALTH
DISTRICT**

ENVIRONMENTAL HEALTH DIVISION
3020 Rucker Avenue, Suite 104
Everett, WA 98201-3900
425.339.5250 Fax: 425.339.5254

Healthy Lifestyles, Healthy Communities

January 28, 2000

MR DICK MATSON
ED'S TRANSMISSION
10226 SMOKEY POINT BLVD
MARYSVILLE WA 98271

Subject: Ed's Transmission, 10226 Smokey Point Boulevard, Marysville, Washington
Department of Ecology I.D. No. N-31-5088-000

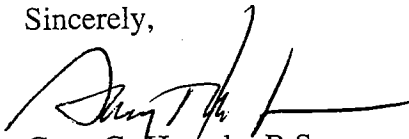
Dear Mr. Matson:

The Snohomish Health District has completed the site hazard assessment (SHA) of the Ed's Transmission site, as required under the Model Toxics Control Act. This site's hazard ranking, an estimation of the potential threat to human health and/or the environment relative to all other Washington State sites assessed at this time, has been determined to be a 4, where 1 represents the highest relative risk and 5 the lowest.

For your information, Department of Ecology (Ecology) will be publishing the results of this, and other recently assessed sites, in the *February 29, 2000 Special Issue of the Site Register*. The site hazard ranking will be used in conjunction with other site specific consideration in determining Ecology's priority for future actions.

Please contact me at 425.339.5250 if you have any questions relating to the SHA of your site. If you have any inquiries/comments about the site scoring/ranking process, please call Michael Spencer at 360.407.7195. For inquiries regarding any further activities at your site now that it is on Ecology's Hazardous Sites List, please call Norm Peck at 425.649.7047.

Sincerely,



Gary G. Hapada, R.S.
Environmental Health Specialist

GGH:sei

Enclosures

cc: Michael Spencer, Department of Ecology; with enclosures
Norm Peck, TCP - NWRO
✓ Louise Bardy, NWRO; with enclosures

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JAN 31 2000

DEPT. OF ECOLOGY

WORKSHEET 1 SUMMARY SCORE SHEET

Note: This document currently has no provision for sediment route scoring.

Site Name/Location (City, County, Section/Township/Range, Ecology Site No, Lat./Long):

Ed's Transmission, 10226 Smokey Pt. Blvd. Marysville, WA
Snohomish County, Ecology I.D. No. N-31-5088-000
Latitude 48° 05' 15.5", Longitude 122° 10' 25.6"
Site scored/ranked: Feb. 29, 2000 update

Site Description (Include management areas, compounds of concern, and quantities):

The tax assessor's records indicate that a service garage was built in 1969, torn down and replaced in 1980. The current owner, Ed's Transmission, purchased the property in September of 1979. A complaint was filed on February 7, 1992 with the Department of Ecology (Ecology) concerning improper management of waste oil. It was being dumped on the ground underneath an old abandoned station wagon on the property. An initial investigation conducted by Ecology on April 10, 1992 verified significant oil staining behind the on-site building. An early notice letter from the Department of Ecology (Ecology) was sent to Ed's Transmission on April 6, 1993 indicating the property was being added to Ecology's database of confirmed and suspected contaminated sites. It was listed as confirmed for petroleum products in soil, suspected for halogenated organic compounds, metals, in soil, groundwater, surface water, air, and sediments. Also listed as suspected for petroleum products in all except soil. A Site Hazard Assessment was conducted by the Snohomish Health District on October 26, 1999. Soil samples were collected in three locations on the west side of the building. Petroleum hydrocarbons (heavy oils), lead, cadmium and chromium were found at levels that exceeded Model Toxics Control Act cleanup levels. Lead and heavy oil were found to exceed MTCA in three samples and cadmium and chromium in one sample.

Special Considerations (Include limitations in site file data or data which cannot be accommodated in the model, but which are important in evaluating the risk associated with the site, or any other factor(s) over-riding a decision of no further action for the site):

The air pathway was not believed to be significant and was not scored. The contaminants are metals and petroleum products (heavy oil) not generally

available to the air pathway unless airborne dust is created. The area is not subject to disturbance by equipment or vehicles.

PATHWAY SCORES:

Surface Water/Human Health:	<u>14.3</u>	Surface Water/Environ.:	<u>49.6</u>
Air/Human Health:	<u>NS</u>	Air/Environmental:	<u>NS</u>
Ground Water/Human Health:	<u>37.2</u>	OVERALL RANK:	<u>4</u>

WORKSHEET 2 ROUTE DOCUMENTATION

1. SURFACE WATER ROUTE

List those substances to be considered for scoring: Source: 2,3

Lead, Cadmium and Chromium

Explain basis for choice of substance(s) to be used in scoring.

Lead, cadmium and chromium will be used in scoring the surface water route, as their measured concentrations exceed MTCA cleanup levels and are available to this pathway due to less than perfect containment.

List those management units to be considered for scoring: Source: 2,3

Contaminated surface soils

Explain basis for choice of unit to be used in scoring. Source: 2,3

Contaminated surface soil will be used in scoring as the measured concentrations of lead, cadmium and chromium were from this management unit. No containment was observed of this unit allowing contaminants to be available to the surface water pathway.

2. AIR ROUTE

List those substances to be considered for scoring: Source: _____

Not applicable to site/not scored.

Explain basis for choice of substance(s) to be used in scoring.

List those management units to be considered for scoring: Source: _____

Explain basis for choice of unit to be used in scoring. Source: _____

3. GROUND WATER ROUTE

List substances to be considered for scoring: Source: 2,3

Lead, Cadmium and Chromium

Explain basis for choice of substance(s) to be used in scoring.

Lead, cadmium and chromium will be used in scoring the ground water route, as their measured concentrations exceed MTCA cleanup levels and are available to the pathway due to less than perfect containment.

List management units to be considered in scoring: Source: 2,3

Contaminated subsurface soil

Explain basis for choice of unit used in scoring. Source: 2,3

Contaminated subsurface soil will be used in scoring as the measured concentrations of lead, cadmium and chromium were from this management unit. No containment was observed of this unit allowing contaminants to be available to the ground water pathway.

WORKSHEET 4 **SURFACE WATER ROUTE**

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

Substance	Drinking Water Standard	Val.	Acute Toxicity	Val.	Chronic Toxicity	Val.	Carcinogenicity		
	(ug/l)		(mg/kg-bw)		(mg/kg/day)		WOE	PF	Val.
Lead	5	8	X	ND	X	ND	X	X	ND
Cadmium	5	8	225	5	0.0005	5	X	X	ND
Chromium	100	6	X	ND	0.005	3	X	X	ND

Source: 1,2,3,4

Highest Value: 8

2 Bonus Points? 2

Final Toxicity Value 10

1.2 Environmental Toxicity

Substance	(X) Freshwater () Marine Acute Criteria	Val.	Non-human Mammalian Acute Toxicity	Val.	Source: <u>1,2,3,4</u> Value: <u>8</u>
	(ug/l)		(mg/kg)		
Lead	82	6	X	ND	
Cadmium	3.9	8	225	5	
Chromium	16	6	X	ND	

1.3 Substance quantity

Explain basis:

Unknown quantity

Source: 2,3 Value: 1

WORKSHEET 4 (CONTINUED)

SURFACE WATER ROUTE

2.0 MIGRATION POTENTIAL

2.1	Containment		Source: <u>2,3</u>	Value: <u>10</u>
	Explain basis:	Spill and contaminated soil		
2.2	Surface Soil Permeability:	Silty sandy loam	Source: <u>2,3,9</u>	Value: <u>1</u>
2.3	Total Annual Precipitation	34.7 inches	Source: <u>3,5</u>	Value: <u>3</u>
2.4	Max. 2-Yr/24-hour Precipitation	1.5 inches	Source: <u>3</u>	Value: <u>2</u>
2.5	Flood Plain:	Not in floodplain	Source: <u>2,3</u>	Value: <u>0</u>
2.6	Terrain Slope:	1.00%	Source: <u>2,6,12</u>	Value: <u>1</u>

3.0 TARGETS

3.1	Distance to Surface Water:	700 feet	Source: <u>3,12</u>	Value: <u>10</u>
3.2	Population Served within 2 miles:	0	Source: <u>7</u>	Value: <u>0</u>
3.3	Area Irrigated within 2 miles:	4	Source: <u>3,7</u>	Value: <u>2</u>
3.4	Distance to Nearest Fishery Resource:	700 feet	Source: <u>3,12</u>	Value: <u>12</u>
3.5	Distance to, and Name (s) of, nearest Sensitive Environment (s)	700 feet to fishery resource Quilceda Creek	Source: <u>3,12</u>	Value: <u>12</u>

4.0 RELEASE

Explain basis for scoring a release to surface water:
No release of any hazardous substance was documented.

Source: 1,2,3 Value: 0

WORKSHEET 6 GROUND WATER ROUTE

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

Substance	Drinking Water Standard (ug/l)	Val.	Acute Toxicity (mg/kg-bw)	Val.	Chronic Toxicity (mg/kg/da)	Val.	Carcinogenicity		
							WOE	PF	Val.
Lead	5	8	X	ND	X	ND	X	X	ND
Cadmium	5	8	225	5	0.0005	5	X	X	ND
Chromium	100	6	X	ND	0.005	3	X	X	ND

Source: 1,2,3,4
Highest Value: 8
2 Bonus Points? 2
Final Toxicity Value: 10

- 1.2 Mobility (Use numbers to refer to above listed substances)
Cations/Anions K value for cadmium is greater than 1

Source: 2,3,4 Value: 3

OR
Solubility (mg/l)

- 1.3 Substance Quantity
Explain basis: Unknown quantity - default value

Source: 2,3 Value: 1

2.0 MIGRATION POTENTIAL

- 2.1 Containment
Explain basis: Discharge and contaminated soil

Source: 1,2,3,4 Value: 10

- 2.2 Net Precipitation: 16.9

Source: 3,5 Value: 2

- 2.3 Subsurface Hydraulic Conductivity: Sands and gravels

Source: 1,2,3,4 Value: 4

- 2.4 Vertical Depth to Ground Water: 45 feet Page 6

Source: 3,10 Value: 6

WORKSHEET 6
GROUND WATER ROUTE

3.0 TARGETS

- 3.1 Ground Water Usage: Private supply, but alternative sources available with min hookup requirements Source: 2,3,8,10 Value: 4
- 3.2 Distance to Nearest Drinking Water Well: Approx. 1600 feet Source: 3,6,10 Value: 3
- 3.3 Population Served within 2 Miles: 763 population Source: 3,7,8,10 Value: 28
- 3.4 Area Irrigated by (Groundwater) Wells 273 acres within 2 miles: Source: 3,7 Value: 12

4.0 RELEASE

- Explain basis for scoring a release to ground water: Source: 1,2,3 Value: 0
No confirmed release documented

Sources Used in Scoring

1. Washington Department of Ecology, Initial Investigation, Ed's Transmission, Marysville, WA, February, 1992.
2. Snohomish Health District, Site Hazard Assessment, Ed's Transmission, Marysville, WA, October 26, 1999.
3. Washington Department of Ecology, WARM Scoring Manual, April, 1992.
4. Washington Department of Ecology, Toxicology Database for Use in Washington Ranking Method Scoring, January, 1992.
5. National Weather Service, Washington Climate Data, Snohomish County.
6. U.S.G.S. Topo. Map, Marysvilles Quad., 7.5 Min. Series, Photorev. 1973.
7. Washington Department of Ecology, Water Rights Information System (WRIS), November 4, 1992.
8. Washington Department of Health, Public Water System List, April 26, 1993.
9. Soil Conservation Service, Soil Survey of Snohomish County Area, July 1983.
10. Washington Department of Ecology, Well Logs
11. U.S. Dept. of Interior, Groundwater Resources of Snohomish County, 1952.
12. Snohomish County, Wetlands/Stream Maps.

PATHWAY SCORING FORMULAE WITH WEIGHTING AND NORMALIZATION FACTORS

Air Route - Human Health Pathway

$$\text{AIR} = (\text{SUB} \times 60/329) \times \{ \text{REL} + (\text{TAR} \times 35/85) \} / 24 = \underline{0.00}$$

where

AIR =	Pathway score for Air-Human Health =	
SUB =	(Human Toxicity Value + 5) X (Containment +1) + Substance Quantity =	
	<u>5</u>	
REL =	Release to Air =	<u>0</u>
TAR =	Nearest population + Population within 1/2 mile =	<u>0</u>

Air Route - Environmental Pathway

$$\text{AIR} = (\text{SUB} \times 60/329) \times \{ \text{REL} + (\text{TAR} \times 35/85) \} / 24 = \underline{0.00}$$

where

AIR =	Pathway score for Air-Environmental =	
SUB =	(Env. Toxicity Value + 5) X (Containment +1) + Substance Quantity =	
	<u>5</u>	
REL =	Release to Air =	<u>0</u>
TAR =	Nearest Sensitive Environment =	<u>0</u>

Surface Water Route - Human Health Pathway

$$\text{SW} = (\text{SUB} \times 40/175) \times \{ (\text{MIG} \times 25/24) + \text{REL} + (\text{TAR} \times 30/115) \} / 24 = \underline{14.29}$$

where

SW =	Pathway Score for Surface Water-Human Health =	
SUB =	(Human Toxicity + 3) X (Containment + 1) + Substance Quantity =	
	<u>144</u>	
MIG =	Soil Permeability + Annual Precip. + Rainfall Frequency + Floodplain + Slope =	<u>7</u>
REL =	Release to the Surface Water =	<u>0</u>
TAR =	Distance to Surface Water + Population Served by Surface Water + Area Irrigated =	<u>12</u>

Table 2 (Continued)

Surface Water Route - Environmental Pathway

$$SW = (SUB \times 40/175) \times \{(MIG \times 25/24)\} + REL + (TAR \times 30/115) / 24 = \underline{49.56}$$

where

SW = Pathway Score for Surface Water-Environmental =

SUB = (Env. Toxicity + 3) X (Containment + 1) + Substance Quantity =
122

MIG = Soil Permeability + Annual Precip. + Rainfall Frequency +
 Floodplain + Slope = 7

REL = Release to the Surface Water = 0

TAR = Distance to Nearest Surface Water + Distance to Fisheries
 Resource + Distance to Sensitive Environment = 34

Ground Water Route - Human Health Pathway

$$GW = (SUB \times 40/208) \times \{(MIG \times 25/17) + REL + (TAR \times 30/165)\} / 24 = \underline{37.15}$$

GW = Pathway Score For Ground Water-Human Health =

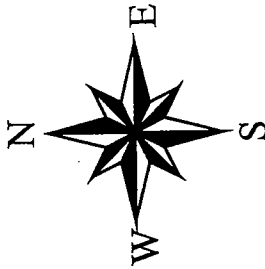
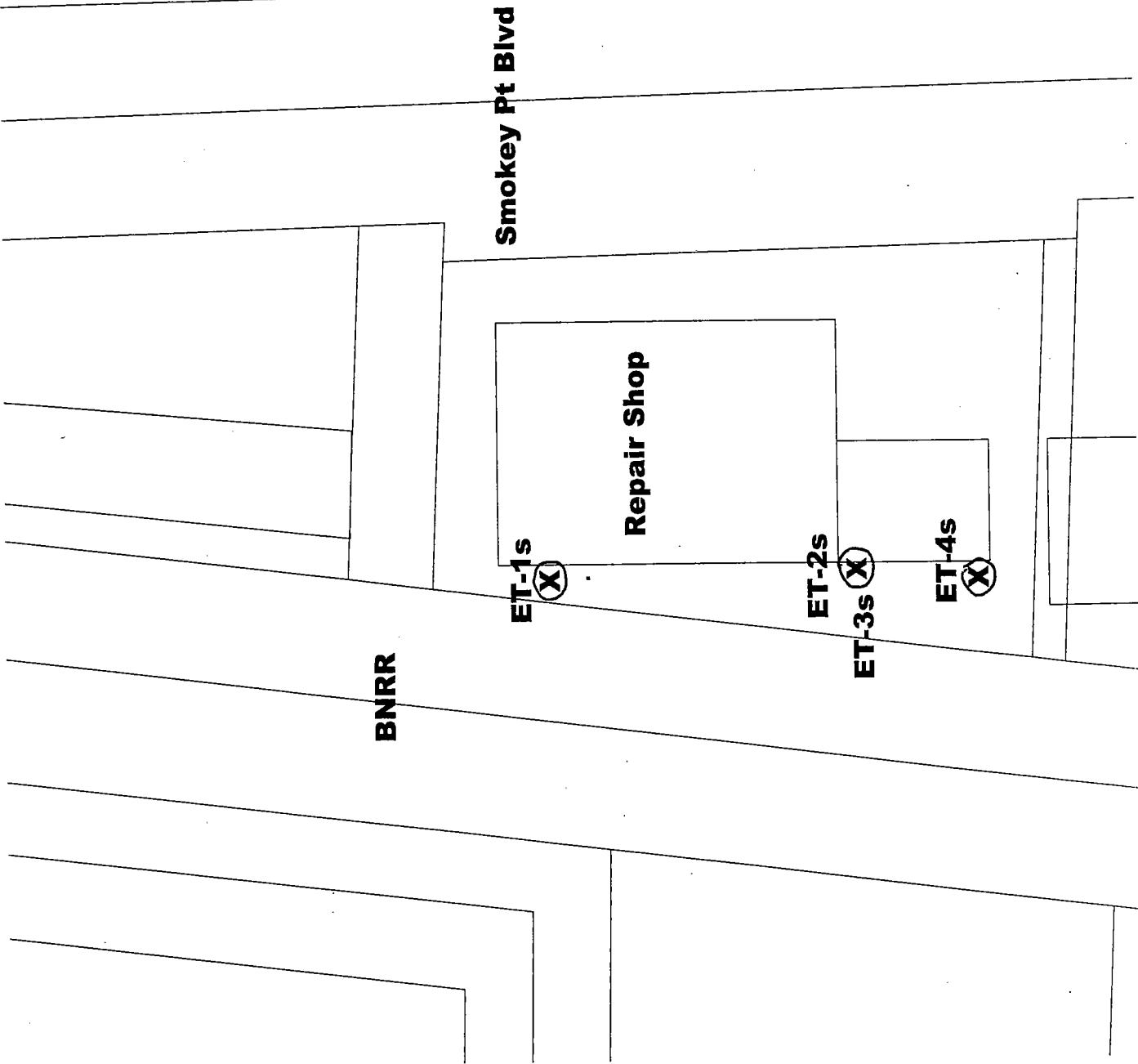
SUB = (Human Toxicity + Mobility + 3) X (Containment + 1) +
 Substance Quantity = 177

MIG = Depth to Aquifer + Net Precipitation + Hydraulic Conductivity =
12

REL = Release to the Ground Water = 0

TAR = Aquifer Use + Well Distance + Population Served +
 Area Irrigated = 47

Eds Transmission



Buildings



X - Approximate Soil Sample Locations

Approximate locations of soil samples collected during SHA on Oct. 26, 1999.

Amy H. 11/5/99



EDGE Analytical
11525 Knudson
Burlington, WA 98233
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NOV 29 1999

Data Report

Snohomish
Health District

Client Name: Snohomish Health District
3020 Rucker Ave Ste 104
Everett, Wa 98201

Report Date: 11/24/99
Reference Number: 99-5028
Project: SHD53913/Ed's Transmission

Collected By:

Date Sampled: 10/26/99

Date Received: 10/27/99

Supervisor: *YH*

Analyte	Result	PQL	Units	Method	Analyzed	Analyst	Batch	Comments
<u>Lab Number: 9319</u> <u>Sample Description: ET-1S - NW side of bldg</u>								
LEAD	828	0.34	mg/Kg	200.8	11/4/99	MVP	200.8_991104D	
CADMIUM	3.17	0.34	mg/Kg	200.8	11/4/99	MVP	200.8_991104D	
CHROMIUM	269	0.34	mg/Kg	200.8	11/4/99	MVP	200.8_991104D	
<u>Lab Number: 9320</u> <u>Sample Description: ET-2S - SW side of bldg (1-1/2 ft)</u>								
LEAD	31.0	0.40	mg/Kg	200.8	11/4/99	MVP	200.8_991104D	
CADMIUM	0.56	0.40	mg/Kg	200.8	11/4/99	MVP	200.8_991104D	
CHROMIUM	51.9	0.40	mg/Kg	200.8	11/4/99	MVP	200.8_991104D	
<u>Lab Number: 9321</u> <u>Sample Description: ET-3S - SW side of bldg (surface)</u>								
LEAD	270	0.38	mg/Kg	200.8	11/4/99	MVP	200.8_991104D	
CADMIUM	1.44	0.38	mg/Kg	200.8	11/4/99	MVP	200.8_991104D	
CHROMIUM	56.9	0.38	mg/Kg	200.8	11/4/99	MVP	200.8_991104D	
<u>Lab Number: 9322</u> <u>Sample Description: ET-4S - SW corner of bldg</u>								
LEAD	346	0.27	mg/Kg	200.8	11/12/99	MVP	200.8_991112SD	
CADMIUM	1.35	0.27	mg/Kg	200.8	11/12/99	MVP	200.8_991112SD	
CHROMIUM	51.0	0.27	mg/Kg	200.8	11/12/99	MVP	200.8_991112SD	

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

ND = Not detected above the listed practical quantitation limit (PQL)

WSDOE Lab C057
WSDOH Lab 046



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Snohomish
Health District



QUALITY CONTROL REPORT BLANK REPORT

Reference Number: 99-5028

Report Date: 11/24/99

Batch	Analyte	Result	Units	Limit	Method	Type*	Comments
200.8_991104D	CADMIUM	ND	mg/L	0.00	200.8	LRB	
	CHROMIUM	ND	mg/L	0.00	200.8	LRB	
	LEAD	ND	mg/L	0.00	200.8	LRB	
200.8_991112SD	CADMIUM	ND	mg/L	0.00	200.8	LRB	
	CHROMIUM	ND	mg/L	0.00	200.8	LRB	
	LEAD	ND	mg/L	0.00	200.8	LRB	
200.8_991104D	CADMIUM	ND	mg/L	0.00	200.8	MB	
	CHROMIUM	ND	mg/L	0.00	200.8	MB	
	LEAD	0.0009	mg/L	0.00	200.8	MB	
200.8_991112SD	CADMIUM	ND	mg/L	0.00	200.8	MB	
	CHROMIUM	ND	mg/L	0.00	200.8	MB	
	LEAD	ND	mg/L	0.00	200.8	MB	

*Notation:

LRB: Laboratory Reagent Blanks are used to determine the background level of the analytes in a laboratory batch. Therefore, this report may include analytes not requested for your submitted samples.

MB: Method Blanks are used to determine background levels of analytes in digested and extracted laboratory reagent.



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QUALITY CONTROL REPORT QCS/LFB REPORT

CHRONOMETER
Health District

Reference Number: 99-5028

Report Date: 11/24/99

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	Type*	Comment
200.8_991104D	CADMIUM	0.202	0.216	mg/L	200.8	94	80-120	LFB	
	CHROMIUM	0.36	0.361	mg/L	200.8	100	80-120	LFB	
	LEAD	0.075	0.0735	mg/L	200.8	102	80-120	LFB	
200.8_991112SD	CADMIUM	0.191	0.216	mg/L	200.8	88	80-120	LFB	
	CHROMIUM	0.353	0.361	mg/L	200.8	98	80-120	LFB	
	LEAD	0.085	0.0735	mg/L	200.8	116	80-120	LFB	
200.8_991104D	CADMIUM	0.071	0.07	mg/L	200.8	101	80-120	QCS	
	CHROMIUM	0.131	0.13	mg/L	200.8	101	80-120	QCS	
	LEAD	0.041	0.04	mg/L	200.8	103	80-120	QCS	
200.8_991112SD	CADMIUM	0.071	0.07	mg/L	200.8	101	80-120	QCS	
	CHROMIUM	0.131	0.13	mg/L	200.8	101	80-120	QCS	
	LEAD	0.0405	0.04	mg/L	200.8	101	80-120	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample.



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Snohomish
Health District



QUALITY CONTROL REPORT Duplicate Report

Reference Number: 99-5028

Report Date: 11/24/99

Batch	Duplicate Sample	Analyte	Result	Duplicate Result	Units	Method	%RPD	Limits
200.8_991104D	9161	CADMIUM	ND	ND	mg/Kg	200.8	NA	0-45
	9161	LEAD	5.57	10.4	mg/Kg	200.8	60.5	0-45
	9161	CHROMIUM	38.9	35.3	mg/Kg	200.8	9.7	0-45
200.8_991112SD	9419	CADMIUM	ND	ND	mg/Kg	200.8	NA	0-45
		CHROMIUM	9.8	9.65	mg/Kg	200.8	1.5	
		LEAD	12.1	11.3	mg/Kg	200.8	6.8	0-45

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Duplicate analysis is used to validate all samples processed in a laboratory batch. Therefore, the duplicate analysis results in this report may not have come from the samples you submitted or may include analytes not requested.



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WSDOE Lab 0057

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Page 1 of 2
Snohomish Health District

DATA REPORT

Client Name: Snohomish Health District
3020 Rucker Ave Ste 104
Everett, Wa 98201

Reference Number: 99-5028
Project: SHD53913/Ed's Transmission

Lab Number: 9320

Field ID: ET-2S

Sample Description: SW side of bldg (1-1/2 ft)

Matrix: Soil

Collect Date: 10/26/99

Extraction Date: 8260_991028

Report Date: 11/2/99

Date Analyzed: 10/29/99

Analyst: TW

Review: [Signature]

Analytical Method: 8260B

CAS ID#	COMPOUND	RESULT	Units	MDL	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND	mg/Kg	0.01	
75-35-4	1,1 - DICHLOROETHYLENE	ND	mg/Kg	0.01	
563-58-6	1,1 - DICHLOROPROPENE	ND	mg/Kg	0.01	
71-55-6	1,1,1 - TRICHLOROETHANE	ND	mg/Kg	0.01	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND	mg/Kg	0.01	
79-00-5	1,1,2 - TRICHLOROETHANE	ND	mg/Kg	0.01	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND	mg/Kg	0.01	
106-93-4	1,2 - DIBROMOETHANE	ND	mg/Kg	0.01	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND	mg/Kg	0.01	
107-06-2	1,2 - DICHLOROETHANE	ND	mg/Kg	0.01	
78-87-5	1,2 - DICHLOROPROPANE	ND	mg/Kg	0.01	
87-61-6	1,2,3 - TRICHLOROBENZENE	ND	mg/Kg	0.01	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND	mg/Kg	0.01	
120-82-1	1,2,4 - TRICHLOROBENZENE	ND	mg/Kg	0.01	
95-63-6	1,2,4 - TRIMETHYLBENZENE	ND	mg/Kg	0.01	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	mg/Kg	0.01	
541-73-1	1,3 - DICHLOROBENZENE (meta)	ND	mg/Kg	0.01	
142-28-9	1,3 - DICHLOROPROPANE	ND	mg/Kg	0.01	
108-67-8	1,3,5 - TRIMETHYLBENZENE	ND	mg/Kg	0.01	
110-57-6	1,4 - DICHLORO-2-BUTENE	ND	mg/Kg	1.0	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND	mg/Kg	0.01	
109-69-3	1-CHLOROBUTANE	ND	mg/Kg	0.01	
594-20-7	2,2 - DICHLOROPROPANE	ND	mg/Kg	0.01	
78-93-3	2-BUTANONE (MEK)	ND	mg/Kg	0.5	
591-78-6	2-HEXANONE	ND	mg/Kg	0.5	
79-46-9	2-NITROPROPANE	ND	mg/Kg	1.0	
108-10-1	4-METHYL-2-PENTANONE	ND	mg/Kg	1.0	
67-64-1	ACETONE	ND	mg/Kg	5	
107-13-1	ACRYLONITRILE	ND	mg/Kg	0.01	
107-05-1	ALLYL CHLORIDE	ND	mg/Kg	0.01	
71-43-2	BENZENE	ND	mg/Kg	0.01	
108-86-1	BROMOBENZENE	ND	mg/Kg	0.01	
74-97-5	BROMOCHLOROMETHANE	ND	mg/Kg	0.01	
75-27-4	BROMODICHLOROMETHANE	ND	mg/Kg	0.01	
75-25-2	BROMOFORM	ND	mg/Kg	0.01	
74-83-9	BROMOMETHANE	ND	mg/Kg	0.05	
75-15-0	CARBON DISULFIDE	0.04	mg/Kg	0.01	
56-23-5	CARBON TETRACHLORIDE	ND	mg/Kg	0.01	

Notes

Result of: NA - indicates the compound was not analyzed.

J - indicates the compound was detected below the Method PQL (Practical Quantitation Level) and that the result is an estimate.. The PQL is 0.1ppb.

ND - indicates the compound was not detected above the MDL.

An * in the Comments column indicates that an MDL has not been determined and the value listed in the MDL column is the PQL.

NOV 29 1999

CAS ID#	COMPOUND	RESULT	Units	MDL	COMMENT	Snohomish Health District
108-90-7	CHLOROBENZENE	ND	mg/Kg	0.01		
124-48-1	CHLORODIBROMOMETHANE	ND	mg/Kg	0.01		
75-00-3	CHLOROETHANE	ND	mg/Kg	0.01		
67-66-3	CHLOROFORM	ND	mg/Kg	0.01		
74-87-3	CHLOROMETHANE	ND	mg/Kg	0.05		
156-59-2	CIS - 1,2 - DICHLOROETHYLENE	ND	mg/Kg	0.01		
10061-01-5	CIS - 1,3 - DICHLOROPROPENE	ND	mg/Kg	0.01		
74-95-3	DIBROMOMETHANE	ND	mg/Kg	0.01		
75-71-8	DICHLORODIFLUOROMETHANE	ND	mg/Kg	0.01		
60-29-7	DIETHYL ETHER	ND	mg/Kg	0.02		
141-78-6	ETHYL ACETATE	ND	mg/Kg	0.01		
97-63-2	ETHYL METHACRYLATE	ND	mg/Kg	0.01		
100-41-4	ETHYLBENZENE	ND	mg/Kg	0.01		
106-93-4	ETHYLENE DIBROMIDE (EDB)	ND	mg/Kg	0.01		
87-68-3	HEXACHLOROBUTADIENE	ND	mg/Kg	0.01		
67-72-1	HEXACHLOROETHANE	ND	mg/Kg	0.01		
98-82-8	ISOPROPYLBENZENE	ND	mg/Kg	0.01		
126-98-7	METHACRYLONITRILE	ND	mg/Kg	0.01		
96-33-3	METHYL ACRYLATE	ND	mg/Kg	0.01		
74-88-4	METHYL IODIDE	ND	mg/Kg	0.01		
80-62-6	METHYL METHACRYLATE	ND	mg/Kg	0.10		
1634-04-4	METHYL TERT-BUTYL ETHER	ND	mg/Kg	0.10		
75-09-2	METHYLENE CHLORIDE	<0.1	mg/Kg	0.01		
104-51-8	N - BUTYLBENZENE	ND	mg/Kg	0.01		
103-65-1	N - PROPYLBENZENE	ND	mg/Kg	0.01		
91-20-3	NAPHTHALENE	ND	mg/Kg	0.01		
98-95-3	NITROBENZENE	ND	mg/Kg	1.0		
99-87-6	P - ISOPROPYLTOLUENE	ND	mg/Kg	0.01		
76-01-7	PENTACHLOROETHANE	ND	mg/Kg	0.01		
135-98-8	SEC - BUTYLBENZENE	ND	mg/Kg	0.01		
100-42-5	STYRENE	ND	mg/Kg	0.01		
156-60-5	T - 1,2 - DICHLOROETHYLENE	ND	mg/Kg	0.01		
98-06-6	TERT - BUTYLBENZENE	ND	mg/Kg	0.01		
127-18-4	TETRACHLOROETHYLENE	ND	mg/Kg	0.01		
109-99-9	TETRAHYDROFURAN	ND	mg/Kg	0.20		
108-88-3	TOLUENE	ND	mg/Kg	0.01		
10061-02-6	TRANS- 1,3 - DICHLOROPROPENE	ND	mg/Kg	0.01		
79-01-6	TRICHLOROETHYLENE	ND	mg/Kg	0.01		
75-69-4	TRICHLOROFLUOROMETHANE	ND	mg/Kg	0.01		
75-01-4	VINYL CHLORIDE	ND	mg/Kg	0.01		
	XYLENES	ND	mg/Kg	0.01		

Notes

Result of: NA - indicates the compound was not analyzed.
J - indicates the compound was detected below the Method PQL (Practical Quantitation Level) and that the result is an estimate.. The PQL is 0.1ppb.
ND - indicates the compound was not detected above the MDL.

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EDGE Analytical, Inc.
11525 Knu...son Rd.
Burlington, WA 98233
(360) 757-1400 - FAX (360) 757-1402

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WSDOE Lab C057

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Page 1 of 2

Snohomish
Health District

DATA REPORT

Client Name: Snohomish Health District
3020 Rucker Ave Ste 104
Everett, Wa 98201

Reference Number: 99-5028
Project: SHD53913/Ed's Transmission

Lab Number: 9322

Field ID: ET-4S

Sample Description: SW corner of bldg

Matrix: Soil

Collect Date: 10/26/99

Extraction Date: 8260_991028

Report Date: 11/2/99

Date Analyzed: 10/29/99

Analyst: TWA

Review: [Signature]

Analytical Method: 8260B

CAS ID#	COMPOUND	RESULT	Units	MDL	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND	mg/Kg	0.01	
75-35-4	1,1 - DICHLOROETHYLENE	ND	mg/Kg	0.01	
563-58-6	1,1 - DICHLOROPROPENE	ND	mg/Kg	0.01	
71-55-6	1,1,1 - TRICHLOROETHANE	ND	mg/Kg	0.01	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND	mg/Kg	0.01	
79-00-5	1,1,2 - TRICHLOROETHANE	ND	mg/Kg	0.01	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND	mg/Kg	0.01	
106-93-4	1,2 - DIBROMOETHANE	ND	mg/Kg	0.01	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND	mg/Kg	0.01	
107-06-2	1,2 - DICHLOROETHANE	ND	mg/Kg	0.01	
78-87-5	1,2 - DICHLOROPROPANE	ND	mg/Kg	0.01	
87-61-6	1,2,3 - TRICHLOROBENZENE	ND	mg/Kg	0.01	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND	mg/Kg	0.01	
120-82-1	1,2,4 - TRICHLOROBENZENE	ND	mg/Kg	0.01	
95-63-6	1,2,4 - TRIMETHYLBENZENE	ND	mg/Kg	0.01	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	mg/Kg	0.01	
541-73-1	1,3 - DICHLOROBENZENE (meta)	ND	mg/Kg	0.01	
142-28-9	1,3 - DICHLOROPROPANE	ND	mg/Kg	0.01	
108-67-8	1,3,5 - TRIMETHYLBENZENE	ND	mg/Kg	0.01	
110-57-6	1,4 - DICHLORO-2-BUTENE	ND	mg/Kg	1.0	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND	mg/Kg	0.01	
109-69-3	1-CHLOROBUTANE	ND	mg/Kg	0.01	
594-20-7	2,2 - DICHLOROPROPANE	ND	mg/Kg	0.01	
78-93-3	2-BUTANONE (MEK)	ND	mg/Kg	0.5	
591-78-6	2-HEXANONE	ND	mg/Kg	0.5	
79-46-9	2-NITROPROPANE	ND	mg/Kg	1.0	
108-10-1	4-METHYL-2-PENTANONE	ND	mg/Kg	1.0	
67-64-1	ACETONE	ND	mg/Kg	5	
107-13-1	ACRYLONITRILE	ND	mg/Kg	0.01	
107-05-1	ALLYL CHLORIDE	ND	mg/Kg	0.01	
71-43-2	BENZENE	ND	mg/Kg	0.01	
108-86-1	BROMOBENZENE	ND	mg/Kg	0.01	
74-97-5	BROMOCHLOROMETHANE	ND	mg/Kg	0.01	
75-27-4	BROMODICHLOROMETHANE	ND	mg/Kg	0.01	
75-25-2	BROMOFORM	ND	mg/Kg	0.01	
74-83-9	BROMOMETHANE	ND	mg/Kg	0.05	
75-15-0	CARBON DISULFIDE	ND	mg/Kg	0.01	
56-23-5	CARBON TETRACHLORIDE	ND	mg/Kg	0.01	

Notes

Result of: NA - indicates the compound was not analyzed.

J - indicates the compound was detected below the Method PQL (Practical Quantitation Level) and that the result is an estimate.. The PQL is 0.1ppb.

ND - indicates the compound was not detected above the MDL.

An * in the Comments column indicates that an MDL has not been determined and the value listed in the MDL column is the PQL.



NOV 29 1999

CAS ID#	COMPOUND	RESULT	Units	MDL	COMMENT
108-90-7	CHLOROBENZENE	ND	mg/Kg	0.01	Snohomish Health District
124-48-1	CHLORODIBROMOMETHANE	ND	mg/Kg	0.01	
75-00-3	CHLOROETHANE	ND	mg/Kg	0.01	
67-66-3	CHLOROFORM	ND	mg/Kg	0.01	
74-87-3	CHLOROMETHANE	ND	mg/Kg	0.05	
156-59-2	CIS - 1,2 - DICHLOROETHYLENE	ND	mg/Kg	0.01	
10061-01-5	CIS - 1,3 - DICHLOROPROPENE	ND	mg/Kg	0.01	
74-95-3	DIBROMOMETHANE	ND	mg/Kg	0.01	
75-71-8	DICHLORODIFLUOROMETHANE	ND	mg/Kg	0.01	
60-29-7	DIETHYL ETHER	ND	mg/Kg	0.02	
141-78-6	ETHYL ACETATE	ND	mg/Kg	0.01	
97-63-2	ETHYL METHACRYLATE	ND	mg/Kg	0.01	
100-41-4	ETHYLBENZENE	ND	mg/Kg	0.01	
106-93-4	ETHYLENE DIBROMIDE (EDB)	ND	mg/Kg	0.01	
87-68-3	HEXACHLOROBUTADIENE	ND	mg/Kg	0.01	
67-72-1	HEXACHLOROETHANE	ND	mg/Kg	0.01	
98-82-8	ISOPROPYLBENZENE	ND	mg/Kg	0.01	
126-98-7	METHACRYLONITRILE	ND	mg/Kg	0.01	
96-33-3	METHYL ACRYLATE	ND	mg/Kg	0.01	
74-88-4	METHYL IODIDE	ND	mg/Kg	0.01	
80-62-6	METHYL METHACRYLATE	ND	mg/Kg	0.10	
1634-04-4	METHYL TERT-BUTYL ETHER	ND	mg/Kg	0.10	
75-09-2	METHYLENE CHLORIDE	<0.1	mg/Kg	0.01	
104-51-8	N - BUTYLBENZENE	ND	mg/Kg	0.01	
103-65-1	N - PROPYLBENZENE	ND	mg/Kg	0.01	
91-20-3	NAPHTHALENE	ND	mg/Kg	0.01	
98-95-3	NITROBENZENE	ND	mg/Kg	1.0	
99-87-6	P - ISOPROPYLTOLUENE	ND	mg/Kg	0.01	
76-01-7	PENTACHLOROETHANE	ND	mg/Kg	0.01	
135-98-8	SEC - BUTYLBENZENE	ND	mg/Kg	0.01	
100-42-5	STYRENE	ND	mg/Kg	0.01	
156-60-5	T - 1,2 - DICHLOROETHYLENE	ND	mg/Kg	0.01	
98-06-6	TERT - BUTYLBENZENE	ND	mg/Kg	0.01	
127-18-4	TETRACHLOROETHYLENE	ND	mg/Kg	0.01	
109-99-9	TETRAHYDROFURAN	ND	mg/Kg	0.20	
108-88-3	TOLUENE	ND	mg/Kg	0.01	
10061-02-6	TRANS- 1,3 - DICHLOROPROPENE	ND	mg/Kg	0.01	
79-01-6	TRICHLOROETHYLENE	ND	mg/Kg	0.01	
75-69-4	TRICHLOROFLUOROMETHANE	ND	mg/Kg	0.01	
75-01-4	VINYL CHLORIDE	ND	mg/Kg	0.01	
	XYLENES	ND	mg/Kg	0.01	

Notes

Result of: NA - indicates the compound was not analyzed.

J - indicates the compound was detected below the Method PQL (Practical Quantitation Level) and that the result is an estimate.. The PQL is 0.1ppb.
ND - indicates the compound was not detected above the MDL.

An * in the Comments column indicates that an MDL has not been determined and the value listed in the MDL column is the PQL.

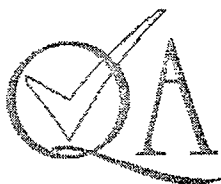


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11525 Knudsen Road
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San Juan County
Health District



QUALITY CONTROL REPORT QCS/LFB REPORT

Reference Number: 99-5028

Report Date: 11/02/99

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	Type*	Comment
8260_991028	1,1 - DICHLOROETHANE	0.51	0.5	mg/Kg	8260B	102	80-120	QCS	
	1,1 - DICHLOROETHYLENE	0.4	0.5	mg/Kg	8260B	80	80-120	QCS	
	1,1,1 - TRICHLOROETHANE	0.36	0.5	mg/Kg	8260B	72	80-120	QCS	
	1,1,2 - TRICHLOROETHANE	0.64	0.5	mg/Kg	8260B	128	80-120	QCS	
	1,1,2,2 - TETRACHLOROETHANE	0.44	0.5	mg/Kg	8260B	88	80-120	QCS	
	1,2 - DICHLOROETHANE	0.47	0.5	mg/Kg	8260B	94	80-120	QCS	
	1,2 - DICHLOROPROPANE	0.48	0.5	mg/Kg	8260B	96	80-120	QCS	
	2-BUTANONE (MEK)	0.47	0.5	mg/Kg	8260B	94	80-120	QCS	
	2-HEXANONE	0.51	0.5	mg/Kg	8260B	102	80-120	QCS	
	4-METHYL-2-PENTANONE	0.64	0.5	mg/Kg	8260B	128	80-120	QCS	
	ACETONE	0.35	0.5	mg/Kg	8260B	70	80-120	QCS	
	BENZENE	0.42	0.5	mg/Kg	8260B	84	80-120	QCS	
	BROMODICHLOROMETHANE	0.54	0.5	mg/Kg	8260B	108	80-120	QCS	
	BROMOFORM	0.45	0.5	mg/Kg	8260B	90	80-120	QCS	
	BROMOMETHANE	0.3	0.5	mg/Kg	8260B	60	80-120	QCS	
	CARBON DISULFIDE	0.46	0.5	mg/Kg	8260B	92	80-120	QCS	
	CARBON TETRACHLORIDE	0.31	0.5	mg/Kg	8260B	62	80-120	QCS	
	CHLOROBENZENE	0.41	0.5	mg/Kg	8260B	82	80-120	QCS	
	CHLORODIBROMOMETHANE	0.57	0.5	mg/Kg	8260B	114	80-120	QCS	
	CHLOROETHANE	0.33	0.5	mg/Kg	8260B	66	80-120	QCS	
	CHLOROFORM	0.52	0.5	mg/Kg	8260B	104	80-120	QCS	
	CHLOROMETHANE	0.36	0.5	mg/Kg	8260B	72	80-120	QCS	
	CIS - 1,2 - DICHLOROETHYLENE	0.53	0.5	mg/Kg	8260B	106	80-120	QCS	
	CIS - 1,3 - DICHLOROPROPENE	0.4	0.5	mg/Kg	8260B	80	80-120	QCS	
	ETHYLBENZENE	0.38	0.5	mg/Kg	8260B	76	80-120	QCS	
	METHYLENE CHLORIDE	0.64	0.5	mg/Kg	8260B	128	80-120	QCS	
	STYRENE	0.36	0.5	mg/Kg	8260B	72	80-120	QCS	
	T - 1,2 - DICHLOROETHYLENE	0.45	0.5	mg/Kg	8260B	90	80-120	QCS	
	TETRACHLOROETHYLENE	0.37	0.5	mg/Kg	8260B	74	80-120	QCS	
	TOLUENE	0.47	0.5	mg/Kg	8260B	94	80-120	QCS	
	TRANS- 1,3 - DICHLOROPROPENE	0.38	0.5	mg/Kg	8260B	76	80-120	QCS	
	TRICHLOROETHYLENE	0.42	0.5	mg/Kg	8260B	84	80-120	QCS	
	VINYL CHLORIDE	0.31	0.5	mg/Kg	8260B	62	80-120	QCS	
	d8-TOLUENE (Sum)	125		%	8260B	NA	80-120	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, but its purpose is to determine whether method performance is within accepted control limits.



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Snohomish
Health District



QUALITY CONTROL REPORT BLANK REPORT

Reference Number: 99-5028
Report Date: 11/03/99

Batch	Analyte	Result	Units	Limit	Method	Type*	Comments
8260_991028	1,1 - DICHLOROETHANE	ND	mg/Kg	0.01	8260B	MB	
	1,1 - DICHLOROETHYLENE	ND	mg/Kg	0.01	8260B	MB	
	1,1 - DICHLOROPROPENE	ND	mg/Kg	0.01	8260B	MB	
	1,1,1 - TRICHLOROETHANE	ND	mg/Kg	0.01	8260B	MB	
	1,1,1,2 - TETRACHLOROETHANE	ND	mg/Kg	0.01	8260B	MB	
	1,1,2 - TRICHLOROETHANE	ND	mg/Kg	0.01	8260B	MB	
	1,1,2,2 - TETRACHLOROETHANE	ND	mg/Kg	0.01	8260B	MB	
	1,2 - DICHLOROBENZENE (ortho)	ND	mg/Kg	0.01	8260B	MB	
	1,2 - DICHLOROETHANE	ND	mg/Kg	0.01	8260B	MB	
	1,2 - DICHLOROPROPANE	ND	mg/Kg	0.01	8260B	MB	
	1,2,3 - TRICHLOROBENZENE	ND	mg/Kg	0.01	8260B	MB	
	1,2,3 - TRICHLOROPROPANE	ND	mg/Kg	0.01	8260B	MB	
	1,2,4 - TRICHLOROBENZENE	ND	mg/Kg	0.01	8260B	MB	
	1,2,4 - TRIMETHYLBENZENE	ND	mg/Kg	0.01	8260B	MB	
	1,3 - DICHLOROBENZENE (meta)	ND	mg/Kg	0.01	8260B	MB	
	1,3 - DICHLOROPROPANE	ND	mg/Kg	0.01	8260B	MB	
	1,3,5 - TRIMETHYLBENZENE	ND	mg/Kg	0.01	8260B	MB	
	1,4 - DICHLORO-2-BUTENE	ND	mg/Kg	1.00	8260B	MB	
	1,4 - DICHLOROBENZENE (para)	ND	mg/Kg	0.01	8260B	MB	
	1-CHLOROBUTANE	ND	mg/Kg	0.01	8260B	MB	
	2,2 - DICHLOROPROPANE	ND	mg/Kg	0.01	8260B	MB	
	2-BUTANONE (MEK)	ND	mg/Kg	0.50	8260B	MB	
	2-HEXANONE	ND	mg/Kg	0.50	8260B	MB	
	2-NITROPROPANE	ND	mg/Kg	1.00	8260B	MB	
	4-METHYL-2-PENTANONE	ND	mg/Kg	1.00	8260B	MB	
	ACETONE	ND	mg/Kg	5.00	8260B	MB	
	ACRYLONITRILE	ND	mg/Kg	0.01	8260B	MB	
	ALLYL CHLORIDE	ND	mg/Kg	0.01	8260B	MB	
	BENZENE	ND	mg/Kg	0.01	8260B	MB	
	BROMOBENZENE	ND	mg/Kg	0.01	8260B	MB	
	BROMOCHLOROMETHANE	ND	mg/Kg	0.01	8260B	MB	
	BROMODICHLOROMETHANE	ND	mg/Kg	0.01	8260B	MB	
	BROMOFORM	ND	mg/Kg	0.01	8260B	MB	
	BROMOMETHANE	ND	mg/Kg	0.05	8260B	MB	
	CARBON DISULFIDE	ND	mg/Kg	0.01	8260B	MB	
	CARBON TETRACHLORIDE	ND	mg/Kg	0.01	8260B	MB	
	CHLOROBENZENE	ND	mg/Kg	0.01	8260B	MB	
	CHLORODIBROMOMETHANE	ND	mg/Kg	0.01	8260B	MB	
	CHLOROETHANE	ND	mg/Kg	0.01	8260B	MB	
	CHLOROFORM	ND	mg/Kg	0.01	8260B	MB	
	CHLOROMETHANE	ND	mg/Kg	0.05	8260B	MB	
	CIS - 1,2 - DICHLOROETHYLENE	ND	mg/Kg	0.01	8260B	MB	
	CIS - 1,3 - DICHLOROPROPENE	ND	mg/Kg	0.01	8260B	MB	
	DIBROMOMETHANE	ND	mg/Kg	0.01	8260B	MB	
	DICHLORODIFLUOROMETHANE	ND	mg/Kg	0.01	8260B	MB	
	DIETHYL ETHER	ND	mg/Kg	0.02	8260B	MB	

*Notation:

LRB: Laboratory Reagent Blanks are used to determine the background level of the analytes in a laboratory batch. Therefore, this report may include analytes not requested for your submitted samples.

MB: Method Blanks are used to determine background levels of analytes in digested and extracted laboratory reagent.



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QUALITY CONTROL REPORT BLANK REPORT

Snohomish
Health District

Reference Number: 99-5028
Report Date: 11/03/99

Batch	Analyte	Result	Units	Limit	Method	Type*	Comments
8260_991028	ETHYL METHACRYLATE	ND	mg/Kg	0.01	8260B	MB	
	ETHYLBENZENE	ND	mg/Kg	0.01	8260B	MB	
	HEXACHLOROBUTADIENE	ND	mg/Kg	0.01	8260B	MB	
	ISOPROPYLBENZENE	ND	mg/Kg	0.01	8260B	MB	
	METHACRYLONITRILE	ND	mg/Kg	0.01	8260B	MB	
	METHYL ACRYLATE	ND	mg/Kg	0.01	8260B	MB	
	METHYL IODIDE	ND	mg/Kg	0.01	8260B	MB	
	METHYL METHACRYLATE	ND	mg/Kg	0.10	8260B	MB	
	METHYL TERT-BUTYL ETHER	ND	mg/Kg	0.10	8260B	MB	
	METHYLENE CHLORIDE	0.05	mg/Kg	0.01	8260B	MB	
	N - BUTYLBENZENE	ND	mg/Kg	0.01	8260B	MB	
	N - PROPYLBENZENE	ND	mg/Kg	0.01	8260B	MB	
	NAPHTHALENE	ND	mg/Kg	0.01	8260B	MB	
	P - ISOPROPYLTOLUENE	ND	mg/Kg	0.01	8260B	MB	
	PENTACHLOROETHANE	ND	mg/Kg	0.01	8260B	MB	
	SEC - BUTYLBENZENE	ND	mg/Kg	0.01	8260B	MB	
	STYRENE	ND	mg/Kg	0.01	8260B	MB	
	T - 1,2 - DICHLOROETHYLENE	ND	mg/Kg	0.01	8260B	MB	
	TERT - BUTYLBENZENE	ND	mg/Kg	0.01	8260B	MB	
	TETRACHLOROETHYLENE	ND	mg/Kg	0.01	8260B	MB	
	TETRAHYDROFURAN	ND	mg/Kg	0.20	8260B	MB	
	TOLUENE	ND	mg/Kg	0.01	8260B	MB	
	TRANS- 1,3 - DICHLOROPROPENE	ND	mg/Kg	0.01	8260B	MB	
	TRICHLOROETHYLENE	ND	mg/Kg	0.01	8260B	MB	
	TRICHLOROFLUOROMETHANE	ND	mg/Kg	0.01	8260B	MB	
	VINYL CHLORIDE	ND	mg/Kg	0.01	8260B	MB	
	d8-TOLUENE (Surr)	115	%		8260B	MB	

*Notation:

LRB: Laboratory Reagent Blanks are used to determine the background level of the analytes in a laboratory batch. Therefore, this report may include analytes not requested for your submitted samples.

MR: Method Blanks are used to determine background levels of analytes in digested and extracted laboratory reagent.



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QUALITY CONTROL REPORT Duplicate Report

Snohomish
Health District

Reference Number: 99-5028

Report Date: 11/03/99

Batch	Duplicate Sample	Analyte	Result	Duplicate Result	Units	Method	%RPD	Limits
8260_991028	9322	1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	mg/Kg	8260B	NA	0-30
		ETHYLENE DIBROMIDE (EDB)	ND	ND	mg/Kg	8260B	NA	0-30
		1,2 - DIBROMOETHANE	ND	ND	mg/Kg	8260B	NA	0-30
		1-CHLOROBUTANE	ND	ND	mg/Kg	8260B	NA	0-30
		2-BUTANONE (MEK)	ND	ND	mg/Kg	8260B	NA	0-30
		2-HEXANONE	ND	ND	mg/Kg	8260B	NA	0-30
		2-NITROPROPANE	ND	ND	mg/Kg	8260B	NA	0-30
		4-METHYL-2-PENTANONE	ND	ND	mg/Kg	8260B	NA	0-30
		ACETONE	ND	ND	mg/Kg	8260B	NA	0-30
		ALLYL CHLORIDE	ND	ND	mg/Kg	8260B	NA	0-30
		ACRYLONITRILE	ND	ND	mg/Kg	8260B	NA	0-30
		CARBON DISULFIDE	ND	ND	mg/Kg	8260B	NA	0-30
		DIETHYL ETHER	ND	ND	mg/Kg	8260B	NA	0-30
		ETHYL ACETATE	ND	ND	mg/Kg	8260B	NA	0-30
		ETHYL METHACRYLATE	ND	ND	mg/Kg	8260B	NA	0-30
		HEXACHLOROETHANE	ND	ND	mg/Kg	8260B	NA	0-30
		METHYL ACRYLATE	ND	ND	mg/Kg	8260B	NA	0-30
		METHACRYLONITRILE	ND	ND	mg/Kg	8260B	NA	0-30
		METHYL IODIDE	ND	ND	mg/Kg	8260B	NA	0-30
		METHYL METHACRYLATE	ND	ND	mg/Kg	8260B	NA	0-30
		METHYL TERT-BUTYL ETHER	ND	ND	mg/Kg	8260B	NA	0-30
		NITROBENZENE	ND	ND	mg/Kg	8260B	NA	0-30
		PENTACHLOROETHANE	ND	ND	mg/Kg	8260B	NA	0-30
		1,4 - DICHLORO-2-BUTENE	ND	ND	mg/Kg	8260B	NA	0-30
		TETRAHYDROFURAN	ND	ND	mg/Kg	8260B	NA	0-30
		T - 1,2 - DICHLOROETHYLENE	ND	ND	mg/Kg	8260B	NA	0-30
		1,1 - DICHLOROETHANE	ND	ND	mg/Kg	8260B	NA	0-30
		2,2 - DICHLOROPROPANE	ND	ND	mg/Kg	8260B	NA	0-30
		CIS - 1,2 - DICHLOROETHYLENE	ND	ND	mg/Kg	8260B	NA	0-30
		BROMOCHLOROMETHANE	ND	ND	mg/Kg	8260B	NA	0-30
		CHLOROFORM	ND	ND	mg/Kg	8260B	NA	0-30
		1,1,1 - TRICHLOROETHANE	ND	ND	mg/Kg	8260B	NA	0-30
		1,1 - DICHLOROPROPENE	ND	ND	mg/Kg	8260B	NA	0-30
		CARBON TETRACHLORIDE	ND	ND	mg/Kg	8260B	NA	0-30
		BENZENE	ND	ND	mg/Kg	8260B	NA	0-45
		DICHLORODIFLUOROMETHANE	ND	ND	mg/Kg	8260B	NA	0-30
		1,2 - DICHLOROETHANE	ND	ND	mg/Kg	8260B	NA	0-30
		TRICHLOROETHYLENE	ND	ND	mg/Kg	8260B	NA	0-30
		1,2 - DICHLOROPROPANE	ND	ND	mg/Kg	8260B	NA	0-30
		DIBROMOMETHANE	ND	ND	mg/Kg	8260B	NA	0-30
		BROMODICHLOROMETHANE	ND	ND	mg/Kg	8260B	NA	0-30
		CIS - 1,3 - DICHLOROPROPENE	ND	ND	mg/Kg	8260B	NA	0-30
		TOLUENE	ND	ND	mg/Kg	8260B	NA	0-45
		TRANS- 1,3 - DICHLOROPROPENE	ND	ND	mg/Kg	8260B	NA	0-30
		CHLOROMETHANE	ND	ND	mg/Kg	8260B	NA	0-30
		1,1,2 - TRICHLOROETHANE	ND	ND	mg/Kg	8260B	NA	0-30
		TETRACHLOROETHYLENE	ND	ND	mg/Kg	8260B	NA	0-30
		1,3 - DICHLOROPROPANE	ND	ND	mg/Kg	8260B	NA	0-30
		CHLORODIBROMOMETHANE	ND	ND	mg/Kg	8260B	NA	0-30
		CHLOROBENZENE	ND	ND	mg/Kg	8260B	NA	0-30
		1,1,1,2 - TETRACHLOROETHANE	ND	ND	mg/Kg	8260B	NA	0-30
		ETHYLBENZENE	ND	ND	mg/Kg	8260B	NA	0-45
		VINYL CHLORIDE	ND	ND	mg/Kg	8260B	NA	0-30
		STYRENE	ND	ND	mg/Kg	8260B	NA	0-30
		BROMOFORM	ND	ND	mg/Kg	8260B	NA	0-30
		ISOPROPYLBENZENE	ND	ND	mg/Kg	8260B	NA	0-30

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Duplicate analysis is used to validate all samples processed in a laboratory batch. Therefore, the duplicate analysis results in this report may not have come from the samples you submitted or may include analytes not requested.



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Snohomish
Health District



QUALITY CONTROL REPORT Duplicate Report

Reference Number: 99-5028

Report Date: 11/03/99

Batch	Duplicate		Result	Duplicate		Units	Method	%RPD	Limits
	Sample	Analyte		Result					
8260_991028	9322	1,2,3 - TRICHLOROPROPANE	ND	ND	mg/Kg	8260B	NA	0-30	
		BROMOBENZENE	ND	ND	mg/Kg	8260B	NA	0-30	
		1,1,2,2 - TETRACHLOROETHANE	ND	ND	mg/Kg	8260B	NA	0-30	
		N - PROPYLBENZENE	ND	ND	mg/Kg	8260B	NA	0-30	
		1,3,5 - TRIMETHYLBENZENE	ND	ND	mg/Kg	8260B	NA	0-30	
		BROMOMETHANE	ND	ND	mg/Kg	8260B	NA	0-30	
		TERT - BUTYLBENZENE	ND	ND	mg/Kg	8260B	NA	0-30	
		1,2,4 - TRIMETHYLBENZENE	ND	ND	mg/Kg	8260B	NA	0-30	
		SEC - BUTYLBENZENE	ND	ND	mg/Kg	8260B	NA	0-30	
		1,3 - DICHLOROBENZENE (meta)	ND	ND	mg/Kg	8260B	NA	0-30	
		P - ISOPROPYLTOLUENE	ND	ND	mg/Kg	8260B	NA	0-30	
		1,4 - DICHLOROBENZENE (para)	ND	ND	mg/Kg	8260B	NA	0-30	
		1,2 - DICHLOROBENZENE (ortho)	ND	ND	mg/Kg	8260B	NA	0-30	
		N - BUTYLBENZENE	ND	ND	mg/Kg	8260B	NA	0-30	
		CHLOROETHANE	ND	ND	mg/Kg	8260B	NA	0-30	
		1,2,4 - TRICHLOROBENZENE	ND	ND	mg/Kg	8260B	NA	0-30	
		HEXACHLOROBUTADIENE	ND	ND	mg/Kg	8260B	NA	0-30	
		NAPHTHALENE	ND	ND	mg/Kg	8260B	NA	0-30	
		1,2,3 - TRICHLOROBENZENE	ND	ND	mg/Kg	8260B	NA	0-30	
		TRICHLOROFLUOROMETHANE	ND	ND	mg/Kg	8260B	NA	0-30	
		1,1 - DICHLOROETHYLENE	ND	ND	mg/Kg	8260B	NA	0-30	
		METHYLENE CHLORIDE	<0.1	<0.1	mg/Kg	8260B	NA	0-30	
		XYLENES	ND	ND	mg/Kg	8260B	NA	0-30	
		1,2 - DICHLOROETHANE-d4 (Surr)	113	142	%	8260B	22.7		
		1,4 - DIFLUOROBENZENE-d4 (Surr)	95	96	%	8260B	1.0		
		4-BROMOFLUOROBENZENE (Surr)	129	126	%	8260B	2.4	0-30	
		d8-TOLUENE (Surr)	65	68	%	8260B	4.5	0-45	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Duplicate analysis is used to validate all samples processed in a laboratory batch. Therefore, the duplicate analysis results in this report may not have come from the samples you submitted or may include analytes not requested.



QUALITY CONTROL REPORT SURROGATE REPORT

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Shonumish
Health District

Reference Number: 99-5028

Report Date: 11/08/99

Lab No	Analyte	Result	Units	Method	Limit
HCID_991103 9319	2-FLUOROTOLUENE (Surr)	101	%	NWTPH-HCID	Acceptance Limits: 50-150%
HCID_991103 9320	2-FLUOROTOLUENE (Surr)	101	%	NWTPH-HCID	Acceptance Limits: 50-150%
8260_991028 9320	1,2 - DICHLOROETHANE-d4 (Surr)	106	%	8260B	Acceptance Range is 70-130%
	1,4 - DIFLUOROBENZENE-d4 (Surr)	98	%		Acceptance Range is 70-130%
	4-BROMOFLUOROBENZENE (Surr)	80	%		Acceptance Limits 60-130
	d8-TOLUENE (Surr)	121	%		Acceptance Range: 50-150%
HCID_991103 9322	2-FLUOROTOLUENE (Surr)	133	%	NWTPH-HCID	Acceptance Limits: 50-150%
8260_991028 9322	1,2 - DICHLOROETHANE-d4 (Surr)	113	%	8260B	Acceptance Range is 70-130%
	1,4 - DIFLUOROBENZENE-d4 (Surr)	95	%		Acceptance Range is 70-130%
	4-BROMOFLUOROBENZENE (Surr)	129	%		Acceptance Limits 60-130
	d8-TOLUENE (Surr)	65	%		Acceptance Range: 50-150%

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a method can be determined.



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SNONOMISH
Health District



QUALITY CONTROL REPORT BLANK REPORT

Reference Number: 99-5028

Report Date: 11/08/99

Batch	Analyte	Result	Units	Limit	Method	Type*	Comments
HCID_991103	GASOLINE (C8-C12)	ND	mg/Kg	0.00	NWTPH-HCID	MB	
	DIESEL (C12 - C24)	ND	mg/Kg	0.00	NWTPH-HCID	MB	
	HEAVY HYDROCARBONS (>C24)	ND	mg/Kg	0.00	NWTPH-HCID	MB	
	2-FLUOROTOLUENE (Surr)	99	%	0.00	NWTPH-HCID	MB	

***Notation:**

LRB: Laboratory Reagent Blanks are used to determine the background level of the analytes in a laboratory batch. Therefore, this report may include analytes not requested for your submitted samples.

MB: Method Blanks are used to determine background levels of analytes in digested and extracted laboratory reagent.



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Snohomish
Health District



QUALITY CONTROL REPORT QCS/LFB REPORT

Reference Number: 99-5028

Report Date: 11/08/99

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	Type*	Comment
HCID_991103	GASOLINE (C8-C12)	111	105	mg/Kg	NWTPH-HCID	106	80-120	LFB	
	GASOLINE (C8-C12)	491	523	mg/Kg	NWTPH-HCID	94	80-120	LFB	
	DIESEL (C12 - C24)	98	103	mg/Kg	NWTPH-HCID	95	80-120	LFB	
	DIESEL (C12 - C24)	489	517	mg/Kg	NWTPH-HCID	95	80-120	LFB	
	HEAVY HYDROCARBONS (>C24)	139	120	mg/Kg	NWTPH-HCID	116	80-120	LFB	
	HEAVY HYDROCARBONS (>C24)	667	598	mg/Kg	NWTPH-HCID	112	80-120	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.



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Snohomish
Health District

DATA REPORT

Client Name: Snohomish Health District
3020 Rucker Ave Ste 104
Everett, Wa 98201

Method: NWTPH-HCID
Hydrocarbon ID in Soil/Other
Matrix: Soil

Reference Number: 99-5028
Report Date: 11/8/99
Project: SHD53913/Ed's Transmission

Analyst: TW
Collect Date: 10/26/99

Supervisor: 

LAB NUMBER	FIELD ID	COMPOUNDS	RESULT	Cleanup		UNITS	DATE ANALYZED	COMMENT
				Level	MRL			
9319	ET-1S - NW side of bldg	GASOLINE (C8-C12)	ND	100	20	mg/Kg	11/3/99	Hydraulic Oil, Est. Amount = 4700 mg/Kg
		DIESEL (C12 - C24)	ND	200	50	mg/Kg		
		HEAVY HYDROCARBONS	>100	200	100	mg/Kg		
9320	ET-2S - SW side of bldg (1-1/2 ft)	GASOLINE (C8-C12)	ND	100	20	mg/Kg	11/3/99	Hydraulic Oil, Est. Amount = 418 mg/Kg
		DIESEL (C12 - C24)	ND	200	50	mg/Kg		
		HEAVY HYDROCARBONS	>100	200	100	mg/Kg		
9322	ET-4S - SW corner of bldg	GASOLINE (C8-C12)	ND	100	20	mg/Kg	11/3/99	Hydraulic Oil, Est. Amount = 3300 mg/Kg
		DIESEL (C12 - C24)	ND	200	50	mg/Kg		
		HEAVY HYDROCARBONS	>100	200	100	mg/Kg		

Notation:

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter 173-340 WAC) contaminants in the specified matrix.
MRL - Method Reporting Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.

CHAIN OF CUSTODY RECORD



ANALYTICAL
11525 KNUDSON ROAD
BURLINGTON, WA 98233
PHONE 360 757-1400
800 755-9295
FAX 360 757-1402

SUBMIT REPORT TO:

NAME Smokinish Health Services
ADDRESS 3020 Buckner Ave, Ste 104
Everett, WA 98201
PROJECT NAME Ed's Transmission
PHONE/FAX (425) 339-5250 (425) 339-5254
JOB/P.O. NO. _____ CONTACT _____
SAMPLER (SIGNATURE) [Signature]

BILLING INFO:

NAME _____
ADDRESS _____
ATTN: _____
VISA ☐ MC ☐ CARDHOLDER _____
CARD # _____ EXP. / /

JCN _____
PAGE _____ OF _____
DATE _____

INSTRUCTIONS

1. USE ONE LINE PER SAMPLE
2. BE SPECIFIC IN TEST REQUESTS
3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE

TURN AROUND REQUEST

- ☐ STANDARD
☐ 5 DAYS (50% SURCHARGE)
☐ 1 - 2 DAYS (100% SURCHARGE)
☐ OTHER _____

TESTS TO PERFORM

NOTIFY
Matrix (HB, CBC)
UOAC

NO.	SAMPLE ID	DESCRIPTION	GRAB/COMP.	MATRIX	DATE	TIME
1	ET-1s	NW side of 31 day	G	Soil	10/26/99	1:35
2	ET-2s	SW side of 31 day	"	"	"	1:50
3	ET-3s	SW side of 31 day	"	"	"	2:05
4	ET-4s	SW corner of 31 day	"	"	"	2:25
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						

OBSERVATIONS
COMMENTS, SPECIAL
INSTRUCTIONS

NO. OF CONTAINERS
PRESERVATIVE

TOTAL NO. OF CONTAINERS

RELINQUISHED BY (SIGN AND PRINT)

RECEIVED BY (SIGN AND PRINT)

DATE
TIME

CHAIN OF CUSTODY SEALS

☐ YES ☐ NO ☐ NA

SHIPPED VIA

☐ UPS ☐ FED EX ☐ OTHER

DATE
TIME

DATE
TIME

APPENDIX C
LABORATORY ANALYTICAL REPORTS
(Provided on Compact Disc in Print Report)

CLEANUP ACTION SUMMARY REPORT

Ed's Transmissions
10226 State Avenue
Marysville, Washington

Farallon PN: 1160-001



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 23, 2013

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1160-001
Laboratory Reference No. 1305-149

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on May 15, 2013.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: May 23, 2013
Samples Submitted: May 15, 2013
Laboratory Reference: 1305-149
Project: 1160-001

Case Narrative

Samples were collected on May 15, 2013 and received by the laboratory on May 15, 2013. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: May 23, 2013
 Samples Submitted: May 15, 2013
 Laboratory Reference: 1305-149
 Project: 1160-001

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-051513					
Laboratory ID:	05-149-01					
Benzene	ND	0.020	EPA 8021B	5-16-13	5-16-13	
Toluene	ND	0.052	EPA 8021B	5-16-13	5-16-13	
Ethyl Benzene	ND	0.052	EPA 8021B	5-16-13	5-16-13	
m,p-Xylene	ND	0.052	EPA 8021B	5-16-13	5-16-13	
o-Xylene	ND	0.052	EPA 8021B	5-16-13	5-16-13	
Gasoline	ND	5.2	NWTPH-Gx	5-16-13	5-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>95</i>	<i>70-132</i>				

Date of Report: May 23, 2013
 Samples Submitted: May 15, 2013
 Laboratory Reference: 1305-149
 Project: 1160-001

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516S1					
Benzene	ND	0.020	EPA 8021B	5-16-13	5-16-13	
Toluene	ND	0.050	EPA 8021B	5-16-13	5-16-13	
Ethyl Benzene	ND	0.050	EPA 8021B	5-16-13	5-16-13	
m,p-Xylene	ND	0.050	EPA 8021B	5-16-13	5-16-13	
o-Xylene	ND	0.050	EPA 8021B	5-16-13	5-16-13	
Gasoline	ND	5.0	NWTPH-Gx	5-16-13	5-16-13	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	100	70-132				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-150-05							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				108	109	70-132		

SPIKE BLANKS

Laboratory ID:	SB0516S1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	0.992	0.999	1.00	1.00	99	100	71-125	1	11
Toluene	1.01	1.02	1.00	1.00	101	102	77-125	1	11
Ethyl Benzene	1.01	1.02	1.00	1.00	101	102	76-125	1	10
m,p-Xylene	1.04	1.04	1.00	1.00	104	104	78-124	0	9
o-Xylene	1.03	1.04	1.00	1.00	103	104	77-123	1	9
Surrogate:									
Fluorobenzene					95	94	70-132		

Date of Report: May 23, 2013
 Samples Submitted: May 15, 2013
 Laboratory Reference: 1305-149
 Project: 1160-001

TCLP METALS
EPA 1311/6010C/7470A

Matrix: TCLP Extract
 Units: mg/L (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-149-01					
Client ID:	SS-051513					
Arsenic	ND	0.40	6010C	5-22-13	5-22-13	
Barium	0.51	0.20	6010C	5-22-13	5-22-13	
Cadmium	ND	0.020	6010C	5-22-13	5-22-13	
Chromium	ND	0.020	6010C	5-22-13	5-22-13	
Lead	ND	0.20	6010C	5-22-13	5-22-13	
Mercury	ND	0.0050	7470A	5-22-13	5-22-13	
Selenium	ND	0.40	6010C	5-22-13	5-22-13	
Silver	ND	0.040	6010C	5-22-13	5-22-13	

Date of Report: May 23, 2013
Samples Submitted: May 15, 2013
Laboratory Reference: 1305-149
Project: 1160-001

**TCLP METALS
EPA 1311/6010C/7470A
METHOD BLANK QUALITY CONTROL**

Date Prepared: 5-15-13
Date Extracted: 5-22-13
Date Analyzed: 5-22-13

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: MB0522T1&MB0522T2

Analyte	Method	Result	PQL
Arsenic	6010C	ND	0.40
Barium	6010C	ND	0.20
Cadmium	6010C	ND	0.020
Chromium	6010C	ND	0.020
Lead	6010C	ND	0.20
Mercury	7470A	ND	0.0050
Selenium	6010C	ND	0.40
Silver	6010C	ND	0.040

Date of Report: May 23, 2013
 Samples Submitted: May 15, 2013
 Laboratory Reference: 1305-149
 Project: 1160-001

**TCLP METALS
 EPA 1311/6010C/7470A
 DUPLICATE QUALITY CONTROL**

Date Prepared: 5-15-13
 Date Extracted: 5-22-13
 Date Analyzed: 5-22-13

 Matrix: TCLP Extract
 Units: mg/L (ppm)

 Lab ID: 05-149-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	0.40	
Barium	0.514	0.502	2	0.20	
Cadmium	ND	ND	NA	0.020	
Chromium	ND	ND	NA	0.020	
Lead	ND	ND	NA	0.20	
Mercury	ND	ND	NA	0.0050	
Selenium	ND	ND	NA	0.40	
Silver	ND	ND	NA	0.040	

Date of Report: May 23, 2013
 Samples Submitted: May 15, 2013
 Laboratory Reference: 1305-149
 Project: 1160-001

**TCLP METALS
 EPA 1311/6010C/7470A
 MS/MSD QUALITY CONTROL**

Date Prepared: 5-15-13
 Date Extracted: 5-22-13
 Date Analyzed: 5-22-13

 Matrix: TCLP Extract
 Units: mg/L (ppm)

 Lab ID: 05-149-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	4.00	3.87	97	3.90	98	1	
Barium	4.00	4.12	90	4.11	90	0	
Cadmium	2.00	1.83	92	1.83	92	0	
Chromium	4.00	3.87	97	3.86	97	0	
Lead	10.0	9.48	95	9.46	95	0	
Mercury	0.0500	0.0468	94	0.0501	100	7	
Selenium	4.00	3.92	98	3.90	98	0	
Silver	1.00	0.940	94	0.938	94	0	

Date of Report: May 23, 2013
Samples Submitted: May 15, 2013
Laboratory Reference: 1305-149
Project: 1160-001

% MOISTURE

Date Analyzed: 5-16-13

Client ID	Lab ID	% Moisture
SS-051513	05-149-01	9



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



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June 5, 2013

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1160-001
Laboratory Reference No. 1306-012

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on June 4, 2013.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: June 5, 2013
Samples Submitted: June 4, 2013
Laboratory Reference: 1306-012
Project: 1160-001

Case Narrative

Samples were collected on June 4, 2013 and received by the laboratory on June 4, 2013. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Lead EPA 6010C Analysis

The Matrix Spike/ Matrix Spike Duplicate recoveries for Lead are outside control limits due to matrix inhomogeneity. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 93%.

The Matrix Spike/Matrix Spike Duplicate RPD for Lead is outside control limits due to matrix inhomogeneity. The samples were re-extracted and re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: June 5, 2013
 Samples Submitted: June 4, 2013
 Laboratory Reference: 1306-012
 Project: 1160-001

**TOTAL LEAD
EPA 6010C**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-012-01					
Client ID:	EX-4.0-B					
Lead	5.8	5.2	6010C	6-4-13	6-4-13	
Lab ID:	06-012-02					
Client ID:	EX-4.0-E					
Lead	1500	5.6	6010C	6-4-13	6-4-13	
Lab ID:	06-012-03					
Client ID:	EX-4.0-N					
Lead	30	5.4	6010C	6-4-13	6-4-13	
Lab ID:	06-012-04					
Client ID:	EX-4.0-W					
Lead	ND	5.2	6010C	6-4-13	6-4-13	
Lab ID:	06-012-05					
Client ID:	EX-4.0-S					
Lead	79	5.2	6010C	6-4-13	6-4-13	

Date of Report: June 5, 2013
Samples Submitted: June 4, 2013
Laboratory Reference: 1306-012
Project: 1160-001

**TOTAL LEAD
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 6-4-13
Date Analyzed: 6-4-13

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0604SM2

Analyte	Method	Result	PQL
Lead	6010C	ND	5.0

Date of Report: June 5, 2013
Samples Submitted: June 4, 2013
Laboratory Reference: 1306-012
Project: 1160-001

**TOTAL LEAD
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 6-4-13

Date Analyzed: 6-4-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-013-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	740	672	10	5.0	

Date of Report: June 5, 2013
Samples Submitted: June 4, 2013
Laboratory Reference: 1306-012
Project: 1160-001

**TOTAL LEAD
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 6-4-13

Date Analyzed: 6-4-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-013-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	1760	408	1380	257	24	V,W

Date of Report: June 5, 2013
Samples Submitted: June 4, 2013
Laboratory Reference: 1306-012
Project: 1160-001

% MOISTURE

Date Analyzed: 6-4-13

Client ID	Lab ID	% Moisture
EX-4.0-B	06-012-01	4
EX-4.0-E	06-012-02	11
EX-4.0-N	06-012-03	7
EX-4.0-W	06-012-04	4
EX-4.0-S	06-012-05	5



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference

Chain of Custody

Company: FAHALLON

Project Number: 1160-001

Project Name: ED'S TRANSMISSION

Project Manager: SAVAN RUMBLE

Sampled by: DINTEL K / JENOME C

Turnaround Request (in working days)

(Check One)

☐ Same Day ☒ 1 Day

☐ 2 Days ☐ 3 Days

☐ Standard (7 Days)
(TPH analysis 5 Days)

☐ _____ (other)

Lab ID	Sample Identification	Date		Matrix	Number of Containers	Laboratory Number: 06-012															
		Sampled	Time Sampled			NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals/ MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1	EX-4.0-B	6/11/13	0920	S	1																
2	EX-4.0-E		0929																		
3	EX-4.0-N		0923																		
4	EX-4.0-W		0924																		
5	EX-4.0-S		0926																		
																					
Signature		Company		Date		Time		Comments/Special Instructions													
		FAHALLON		6/4		1100															
Relinquished																					
Received																					
Relinquished																					
Received																					
Relinquished																					
Received																					
Reviewed/Date		Reviewed/Date		Reviewed/Date		Reviewed/Date		Chromatograms with final report ☐													



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June 7, 2013

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1160-001
Laboratory Reference No. 1306-051

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on June 6, 2013.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: June 7, 2013
Samples Submitted: June 6, 2013
Laboratory Reference: 1306-051
Project: 1160-001

Case Narrative

Samples were collected on June 6, 2013 and received by the laboratory on June 6, 2013. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: June 7, 2013
Samples Submitted: June 6, 2013
Laboratory Reference: 1306-051
Project: 1160-001

**TOTAL LEAD
EPA 6010C**

Matrix: Soil
Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	06-051-01					
Client ID:	EX-4.0-E2					
Lead	380	5.9	6010C	6-6-13	6-6-13	
Lab ID:	06-051-02					
Client ID:	EX-6.0-B					
Lead	9.0	5.3	6010C	6-6-13	6-6-13	

Date of Report: June 7, 2013
Samples Submitted: June 6, 2013
Laboratory Reference: 1306-051
Project: 1160-001

**TOTAL LEAD
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 6-6-13
Date Analyzed: 6-6-13

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0606SM1

Analyte	Method	Result	PQL
Lead	6010C	ND	5.0

Date of Report: June 7, 2013
Samples Submitted: June 6, 2013
Laboratory Reference: 1306-051
Project: 1160-001

**TOTAL LEAD
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 6-6-13

Date Analyzed: 6-6-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-051-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	325	343	6	5.0	

Date of Report: June 7, 2013
Samples Submitted: June 6, 2013
Laboratory Reference: 1306-051
Project: 1160-001

**TOTAL LEAD
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 6-6-13

Date Analyzed: 6-6-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-051-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	541	87	597	109	10	

Date of Report: June 7, 2013
Samples Submitted: June 6, 2013
Laboratory Reference: 1306-051
Project: 1160-001

% MOISTURE

Date Analyzed: 6-6-13

Client ID	Lab ID	% Moisture
EX-4.0-E2	06-051-01	15
EX-6.0-B	06-051-02	6



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



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June 17, 2013

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1160-001
Laboratory Reference No. 1306-123

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on June 14, 2013.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: June 17, 2013
Samples Submitted: June 14, 2013
Laboratory Reference: 1306-123
Project: 1160-001

Case Narrative

Samples were collected on June 14, 2013 and received by the laboratory on June 14, 2013. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: June 17, 2013
 Samples Submitted: June 14, 2013
 Laboratory Reference: 1306-123
 Project: 1160-001

**TOTAL LEAD
EPA 6010C**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-123-01					
Client ID:	EX-6.0-E2					
Lead	20	5.3	6010C	6-14-13	6-14-13	
Lab ID:	06-123-03					
Client ID:	EX-6.0-E3					
Lead	230	5.3	6010C	6-14-13	6-14-13	
Lab ID:	06-123-04					
Client ID:	EX-2.0-S					
Lead	230	5.8	6010C	6-14-13	6-14-13	

Date of Report: June 17, 2013
Samples Submitted: June 14, 2013
Laboratory Reference: 1306-123
Project: 1160-001

**TOTAL LEAD
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 6-14-13
Date Analyzed: 6-14-13

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0614SM1

Analyte	Method	Result	PQL
Lead	6010C	ND	5.0

Date of Report: June 17, 2013
Samples Submitted: June 14, 2013
Laboratory Reference: 1306-123
Project: 1160-001

**TOTAL LEAD
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 6-14-13

Date Analyzed: 6-14-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-123-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	18.8	20.7	10	5.0	

Date of Report: June 17, 2013
Samples Submitted: June 14, 2013
Laboratory Reference: 1306-123
Project: 1160-001

**TOTAL LEAD
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 6-14-13

Date Analyzed: 6-14-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-123-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	234	86	233	86	0	

Date of Report: June 17, 2013
Samples Submitted: June 14, 2013
Laboratory Reference: 1306-123
Project: 1160-001

% MOISTURE

Date Analyzed: 6-14-13

Client ID	Lab ID	% Moisture
EX-6.0-E2	06-123-01	5
EX-6.0-E3	06-123-03	6
EX-2.0-S	06-123-04	13



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



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July 11, 2013

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1160-001
Laboratory Reference No. 1306-123B

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on June 14, 2013.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", followed by a long horizontal flourish.

David Baumeister
Project Manager

Enclosures

Date of Report: July 11, 2013
Samples Submitted: June 14, 2013
Laboratory Reference: 1306-123B
Project: 1160-001

Case Narrative

Samples were collected on June 14, 2013 and received by the laboratory on June 14, 2013. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: July 11, 2013
 Samples Submitted: June 14, 2013
 Laboratory Reference: 1306-123B
 Project: 1160-001

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EX-6.0-E2					
Laboratory ID:	06-123-01					
Diesel Range Organics	ND	26	NWTPH-Dx	7-10-13	7-10-13	
Lube Oil Range Organics	ND	53	NWTPH-Dx	7-10-13	7-10-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>85</i>	<i>50-150</i>				

Date of Report: July 11, 2013
 Samples Submitted: June 14, 2013
 Laboratory Reference: 1306-123B
 Project: 1160-001

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0710S1					
Diesel Range Organics	ND	25	NWTPH-Dx	7-10-13	7-10-13	
Lube Oil Range Organics	ND	50	NWTPH-Dx	7-10-13	7-10-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	81	50-150				

Analyte	Result		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	07-037-02							
	ORIG	DUP						
Diesel Range Organics	ND	ND					NA	NA
Lube Oil Range Organics	ND	ND					NA	NA
Surrogate:								
o-Terphenyl			70	77	50-150			



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



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July 17, 2013

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1160-001
Laboratory Reference No. 1307-037C

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on July 3, 2013.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', followed by a long horizontal flourish.

David Baumeister
Project Manager

Enclosures

Date of Report: July 17, 2013
Samples Submitted: July 3, 2013
Laboratory Reference: 1307-037C
Project: 1160-001

Case Narrative

Samples were collected on July 2, 2013 and received by the laboratory on July 3, 2013. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: July 17, 2013
 Samples Submitted: July 3, 2013
 Laboratory Reference: 1307-037C
 Project: 1160-001

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EX-4.0-E5					
Laboratory ID:	07-037-03					
Diesel Range Organics	ND	26	NWTPH-Dx	7-15-13	7-15-13	
Lube Oil Range Organics	ND	52	NWTPH-Dx	7-15-13	7-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				
Client ID:	EX-6.0-E5					
Laboratory ID:	07-037-04					
Diesel Range Organics	ND	27	NWTPH-Dx	7-15-13	7-15-13	
Lube Oil Range Organics	ND	54	NWTPH-Dx	7-15-13	7-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				

Date of Report: July 17, 2013
 Samples Submitted: July 3, 2013
 Laboratory Reference: 1307-037C
 Project: 1160-001

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0715S3					
Diesel Range Organics	ND	25	NWTPH-Dx	7-15-13	7-15-13	
Lube Oil Range Organics	ND	50	NWTPH-Dx	7-15-13	7-15-13	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	76	50-150				

Analyte	Result		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	07-103-01							
	ORIG	DUP						
Diesel Range Organics	ND	ND					NA	NA
Lube Oil Range Organics	ND	ND					NA	NA
Surrogate:								
o-Terphenyl			95	74	50-150			



Data Qualifiers and Abbreviations

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- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



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Phone: (425) 883-3881 • www.on-site-env.com

Chain of Custody

Page 1 of 6

ENVIRONMENTAL LAB

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Phone: (425) 883-3881 • www.omni-site-env.com

Laboratory Number:

07-037

Company:

FACILITY

Project Number:

1160-001

Project Name:

EDS TRANSMISSION

Project Manager:

Jimm R

Sampled by:

Dinner K.

Turnaround Request
(in working days)

(Check One)

☐ Same Day ☒ 1 Day

☐ 2 Days ☐ 3 Days

☐ Standard (7 Days)
(TPH analysis 5 Days)

☐ 7/5 AM
(other)

Lab ID

Sample Identification

Date Sampled Time Sampled Matrix

Number of Containers

NWTPH-HCID

NWTPH-Gx/BTEX

NWTPH-Gx

NWTPH-Dx

Volatiles 8260C

Halogenated Volatiles 8260C

Semivolatiles 8270D/SIM
(with low-level PAHs)

PAHs 8270D/SIM (low-level)

PCBs 8082A

Organochlorine Pesticides 8081B

Organophosphorus Pesticides 8270D/SIM

Chlorinated Acid Herbicides 8151A

Total RCRA Metals/ MTCA Metals (circle one)

TCLP Metals

HEM (oil and grease) 1664A

LEAD

% Moisture

Signature

Company

Date

Time

Comments/Special Instructions

Relinquished
Received
Relinquished
Received
Relinquished
Received

FARMER
Speedy Delivery
Speedy Delivery

COE

7/3/13 15:03
7/3/13 15:03
7/3/13 15:55
7/3/13 15:55

CAR TRUCK TO CONFIRM
(X) Added 7/9/13. DG (STA)
Δ Add or 7/15/13 STA

Reviewed/Date

Chromatograms with final report ☐



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 11, 2013

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1160-001
Laboratory Reference No. 1307-037B

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on July 3, 2013.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', followed by a long horizontal flourish.

David Baumeister
Project Manager

Enclosures

Date of Report: July 11, 2013
Samples Submitted: July 3, 2013
Laboratory Reference: 1307-037B
Project: 1160-001

Case Narrative

Samples were collected on July 2, 2013 and received by the laboratory on July 3, 2013. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: July 11, 2013
 Samples Submitted: July 3, 2013
 Laboratory Reference: 1307-037B
 Project: 1160-001

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EX-4.0-E4					
Laboratory ID:	07-037-01					
Diesel Range Organics	ND	27	NWTPH-Dx	7-10-13	7-10-13	
Lube Oil Range Organics	ND	53	NWTPH-Dx	7-10-13	7-10-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	83	50-150				
Client ID:	EX-6.0-E4					
Laboratory ID:	07-037-02					
Diesel Range Organics	ND	27	NWTPH-Dx	7-10-13	7-10-13	
Lube Oil Range Organics	ND	53	NWTPH-Dx	7-10-13	7-10-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	70	50-150				

Date of Report: July 11, 2013
 Samples Submitted: July 3, 2013
 Laboratory Reference: 1307-037B
 Project: 1160-001

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0710S1					
Diesel Range Organics	ND	25	NWTPH-Dx	7-10-13	7-10-13	
Lube Oil Range Organics	ND	50	NWTPH-Dx	7-10-13	7-10-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>81</i>	<i>50-150</i>				

Analyte	Result		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	07-037-02							
	ORIG	DUP						
Diesel Range Organics	ND	ND					NA	NA
Lube Oil Range Organics	ND	ND					NA	NA
Surrogate:								
o-Terphenyl			70	77	50-150			



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
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- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
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- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
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- Q - Surrogate recovery is outside of the control limits.
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- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
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- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference

Chain of Custody

Company: FARADON						Turnaround Request (in working days)			Laboratory Number:								07-037					
Project Number: 1160-001						(Check One) ☐ Same Day ☒ 1 Day ☐ 2 Days ☐ 3 Days ☐ Standard (7 Days) (TPH analysis 5 Days) ☐ 7/5 AM (other)																
Project Name: EDS TRANSMISSION																						
Project Manager: Jamun R																						
Sampled by: Dincee K.																						
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals/ MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
1	EX-4.0-EL	7/4/13	0855	5	2				X													X
2	EX-6.0-EL		0900						X													X
3	EX-4.0-ES		1020																			X
4	EX-6.0-ES		1028																			X
Signature						Company			Date		Time		Comments/Special Instructions									
[Signature]						FARADON			7/3/13		15:03		CALL JAMUN TO CONFIRM (X) Added 7/9/13. DS (STA)									
Relinquished																						
Received																						
Relinquished																						
Received																						
Relinquished																						
Received																						
Reviewed/Date													Chromatograms with final report ☐									



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July 5, 2013

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1160-001
Laboratory Reference No. 1307-037

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on July 3, 2013.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: July 5, 2013
Samples Submitted: July 3, 2013
Laboratory Reference: 1307-037
Project: 1160-001

Case Narrative

Samples were collected on July 2, 2013 and received by the laboratory on July 3, 2013. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: July 5, 2013
 Samples Submitted: July 3, 2013
 Laboratory Reference: 1307-037
 Project: 1160-001

**TOTAL LEAD
EPA 6010C**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-037-01					
Client ID:	EX-4.0-E4					
Lead	9.2	5.3	6010C	7-3-13	7-3-13	
Lab ID:	07-037-02					
Client ID:	EX-6.0-E4					
Lead	13	5.3	6010C	7-3-13	7-3-13	
Lab ID:	07-037-03					
Client ID:	EX-4.0-E5					
Lead	ND	5.2	6010C	7-3-13	7-3-13	
Lab ID:	07-037-04					
Client ID:	EX-6.0-E5					
Lead	22	5.4	6010C	7-3-13	7-3-13	

Date of Report: July 5, 2013
Samples Submitted: July 3, 2013
Laboratory Reference: 1307-037
Project: 1160-001

**TOTAL LEAD
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-3-13
Date Analyzed: 7-3-13

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0703SM1

Analyte	Method	Result	PQL
Lead	6010C	ND	5.0

Date of Report: July 5, 2013
Samples Submitted: July 3, 2013
Laboratory Reference: 1307-037
Project: 1160-001

**TOTAL LEAD
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 7-3-13

Date Analyzed: 7-3-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-015-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	ND	ND	NA	5.0	

Date of Report: July 5, 2013
Samples Submitted: July 3, 2013
Laboratory Reference: 1307-037
Project: 1160-001

**TOTAL LEAD
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 7-3-13

Date Analyzed: 7-3-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-015-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	245	98	250	100	2	

Date of Report: July 5, 2013
Samples Submitted: July 3, 2013
Laboratory Reference: 1307-037
Project: 1160-001

% MOISTURE

Date Analyzed: 7-3-13

Client ID	Lab ID	% Moisture
EX-4.0-E4	07-037-01	6
EX-6.0-E4	07-037-02	6
EX-4.0-E5	07-037-03	3
EX-6.0-E5	07-037-04	8



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference

Chain of Custody

[illegible]



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 17, 2013

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1160-001
Laboratory Reference No. 1307-113

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on July 16, 2013.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", followed by a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: July 17, 2013
Samples Submitted: July 16, 2013
Laboratory Reference: 1307-113
Project: 1160-001

Case Narrative

Samples were collected on July 16, 2013 and received by the laboratory on July 16, 2013. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: July 17, 2013
 Samples Submitted: July 16, 2013
 Laboratory Reference: 1307-113
 Project: 1160-001

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EX-3.5-N2						
Laboratory ID:	07-113-01					
Diesel Range Organics	ND	26	NWTPH-Dx	7-16-13	7-16-13	
Lube Oil Range Organics	ND	52	NWTPH-Dx	7-16-13	7-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	99	50-150				
Client ID: EX-4.0-NB						
Laboratory ID:	07-113-02					
Diesel Range Organics	ND	26	NWTPH-Dx	7-16-13	7-16-13	
Lube Oil Range Organics	ND	52	NWTPH-Dx	7-16-13	7-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	95	50-150				
Client ID: EX-4.0-WB						
Laboratory ID:	07-113-03					
Diesel Range Organics	ND	27	NWTPH-Dx	7-16-13	7-16-13	
Lube Oil Range Organics	ND	54	NWTPH-Dx	7-16-13	7-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	95	50-150				
Client ID: EX-6.0-BB						
Laboratory ID:	07-113-04					
Diesel Range Organics	ND	26	NWTPH-Dx	7-16-13	7-16-13	
Lube Oil Range Organics	ND	53	NWTPH-Dx	7-16-13	7-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	94	50-150				
Client ID: EX-4.0-S2						
Laboratory ID:	07-113-05					
Diesel Range Organics	ND	26	NWTPH-Dx	7-16-13	7-16-13	
Lube Oil	130	53	NWTPH-Dx	7-16-13	7-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				
Client ID: EX-4.0-S3						
Laboratory ID:	07-113-06					
Diesel Range Organics	ND	26	NWTPH-Dx	7-16-13	7-16-13	
Lube Oil	84	52	NWTPH-Dx	7-16-13	7-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	84	50-150				

Date of Report: July 17, 2013
 Samples Submitted: July 16, 2013
 Laboratory Reference: 1307-113
 Project: 1160-001

**NWTPH-Dx
QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0716S1					
Diesel Range Organics	ND	25	NWTPH-Dx	7-16-13	7-16-13	
Lube Oil Range Organics	ND	50	NWTPH-Dx	7-16-13	7-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	99	50-150				

Analyte	Result		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	07-113-01							
	ORIG	DUP						
Diesel Range Organics	ND	ND					NA	NA
Lube Oil Range Organics	ND	ND					NA	NA
Surrogate:								
o-Terphenyl			99	96	50-150			

Date of Report: July 17, 2013
 Samples Submitted: July 16, 2013
 Laboratory Reference: 1307-113
 Project: 1160-001

**TOTAL LEAD
EPA 6010C**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-113-01					
Client ID:	EX-3.5-N2					
Lead	ND	5.2	6010C	7-16-13	7-17-13	
Lab ID:	07-113-04					
Client ID:	EX-6.0-BB					
Lead	17	5.3	6010C	7-16-13	7-17-13	
Lab ID:	07-113-05					
Client ID:	EX-4.0-S2					
Lead	390	5.3	6010C	7-16-13	7-17-13	
Lab ID:	07-113-06					
Client ID:	EX-4.0-S3					
Lead	360	5.2	6010C	7-16-13	7-17-13	

Date of Report: July 17, 2013
Samples Submitted: July 16, 2013
Laboratory Reference: 1307-113
Project: 1160-001

**TOTAL LEAD
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-16-13
Date Analyzed: 7-16-13

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0716SM1

Analyte	Method	Result	PQL
Lead	6010C	ND	5.0

Date of Report: July 17, 2013
Samples Submitted: July 16, 2013
Laboratory Reference: 1307-113
Project: 1160-001

**TOTAL LEAD
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 7-16-13

Date Analyzed: 7-16-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-091-06

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	ND	ND	NA	5.0	

Date of Report: July 17, 2013
Samples Submitted: July 16, 2013
Laboratory Reference: 1307-113
Project: 1160-001

**TOTAL LEAD
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 7-16-13

Date Analyzed: 7-16-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-091-06

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	231	92	230	92	1	

Date of Report: July 17, 2013
Samples Submitted: July 16, 2013
Laboratory Reference: 1307-113
Project: 1160-001

% MOISTURE

Date Analyzed: 7-16-13

Client ID	Lab ID	% Moisture
EX-3.5-N2	07-113-01	3
EX-4.0-NB	07-113-02	4
EX-4.0-WB	07-113-03	7
EX-6.0-BB	07-113-04	5
EX-4.0-S2	07-113-05	5
EX-4.0-S3	07-113-06	5



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



**Onsite
Environmental Inc.**

Analytical Laboratory Testing Services
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Chain of Custody

Turnaround Request
(in working days)

Laboratory Number:

07-113

(Check One)

☒ Same Day ~~1-2 Day~~ ~~3-5 Day~~

☐ 2 Days ☐ 3 Days

☐ Standard (7 Days)
(TPH analysis 5 Days)

☐ _____
(other)

Company: **FAARLON**
Project Number: **1160-001**
Project Name: **ED's TRANSMISSION**
Project Manager: **JAMIN RIVER**
Sampled by: **DINEA KAYHAN**

Lab ID Sample Identification

Number of Containers

NWTPH-HCID
NWTPH-Gx/BTEX
NWTPH-Gx
NWTPH-Dx
Volatiles 8260C
Halogenated Volatiles 8260C
Semivolatiles 8270D/SIM
(with low-level PAHs)
PAHs 8270D/SIM (low-level)
PCBs 8082A
Organochlorine Pesticides 8081B
Organophosphorus Pesticides 8270D/SIM
Chlorinated Acid Herbicides 8151A
Total RCRA Metals/ MTCA Metals (circle one)
TCLP Metals
HEM (oil and grease) 1664A

% Moisture

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals/ MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1	EX-3.5-N2	7/10	0930	S	1																
2	EX-4.0-NB		1015																		
3	EX-4.0-WB		1020																		
4	EX-6.0-BB		1025																		
5	EX-4.0-S2		1155																		
6	EX-4.0-S3		1223																		

Signature	Company	Date	Time	Comments/Special Instructions
	FAARLON	7/10/13	1409	

Relinquished
Received
Relinquished
Received
Relinquished
Received
Reviewed/Date

will not for analysis.
Requested 7/16/13. DB
(Same Day)



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 25, 2013

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1160-001
Laboratory Reference No. 1307-166

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on July 24, 2013.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', followed by a long horizontal stroke.

David Baumeister
Project Manager

Enclosures

Date of Report: July 25, 2013
Samples Submitted: July 24, 2013
Laboratory Reference: 1307-166
Project: 1160-001

Case Narrative

Samples were collected on July 24, 2013 and received by the laboratory on July 24, 2013. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: July 25, 2013
 Samples Submitted: July 24, 2013
 Laboratory Reference: 1307-166
 Project: 1160-001

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EX-4.0-S3E						
Laboratory ID:	07-166-01					
Diesel Range Organics	ND	26	NWTPH-Dx	7-24-13	7-24-13	
Lube Oil Range Organics	ND	53	NWTPH-Dx	7-24-13	7-24-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	74	50-150				
Client ID: EX-6.0-S3E						
Laboratory ID:	07-166-02					
Diesel Range Organics	ND	27	NWTPH-Dx	7-24-13	7-24-13	
Lube Oil Range Organics	ND	53	NWTPH-Dx	7-24-13	7-24-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	76	50-150				
Client ID: EX-4.0-S4						
Laboratory ID:	07-166-03					
Diesel Range Organics	ND	27	NWTPH-Dx	7-24-13	7-24-13	
Lube Oil	130	54	NWTPH-Dx	7-24-13	7-24-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	67	50-150				
Client ID: EX-6.0-S4						
Laboratory ID:	07-166-04					
Diesel Range Organics	ND	27	NWTPH-Dx	7-24-13	7-24-13	
Lube Oil	130	54	NWTPH-Dx	7-24-13	7-24-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	68	50-150				
Client ID: EX-6.0-B5						
Laboratory ID:	07-166-05					
Diesel Range Organics	ND	27	NWTPH-Dx	7-24-13	7-24-13	
Lube Oil Range Organics	ND	54	NWTPH-Dx	7-24-13	7-24-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	68	50-150				

Date of Report: July 25, 2013
 Samples Submitted: July 24, 2013
 Laboratory Reference: 1307-166
 Project: 1160-001

**NWTPH-Dx
QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0724S1					
Diesel Range Organics	ND	25	NWTPH-Dx	7-24-13	7-24-13	
Lube Oil Range Organics	ND	50	NWTPH-Dx	7-24-13	7-24-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				

Analyte	Result		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags	
DUPLICATE									
Laboratory ID:	07-133-04								
	ORIG	DUP							
Diesel Fuel #2	86.2	53.2					47	NA	M
Lube Oil	184	144					24	NA	
Surrogate:									
o-Terphenyl			73	79	50-150				

Date of Report: July 25, 2013
 Samples Submitted: July 24, 2013
 Laboratory Reference: 1307-166
 Project: 1160-001

**TOTAL LEAD
EPA 6010C**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-166-01					
Client ID:	EX-4.0-S3E					
Lead	ND	5.3	6010C	7-24-13	7-24-13	
Lab ID:	07-166-02					
Client ID:	EX-6.0-S3E					
Lead	ND	5.3	6010C	7-24-13	7-24-13	
Lab ID:	07-166-03					
Client ID:	EX-4.0-S4					
Lead	850	5.3	6010C	7-24-13	7-24-13	
Lab ID:	07-166-04					
Client ID:	EX-6.0-S4					
Lead	760	5.4	6010C	7-24-13	7-24-13	
Lab ID:	07-166-05					
Client ID:	EX-6.0-B5					
Lead	370	5.4	6010C	7-24-13	7-24-13	

Date of Report: July 25, 2013
Samples Submitted: July 24, 2013
Laboratory Reference: 1307-166
Project: 1160-001

**TOTAL LEAD
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-24-13
Date Analyzed: 7-24-13

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0724SM1

Analyte	Method	Result	PQL
Lead	6010C	ND	5.0

Date of Report: July 25, 2013
Samples Submitted: July 24, 2013
Laboratory Reference: 1307-166
Project: 1160-001

**TOTAL LEAD
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 7-24-13

Date Analyzed: 7-24-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-153-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	5.98	6.71	12	5.0	

Date of Report: July 25, 2013
Samples Submitted: July 24, 2013
Laboratory Reference: 1307-166
Project: 1160-001

**TOTAL LEAD
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 7-24-13

Date Analyzed: 7-24-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-153-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	231	90	234	91	1	

Date of Report: July 25, 2013
Samples Submitted: July 24, 2013
Laboratory Reference: 1307-166
Project: 1160-001

% MOISTURE

Date Analyzed: 7-24-13

Client ID	Lab ID	% Moisture
EX-4.0-S3E	07-166-01	5
EX-6.0-S3E	07-166-02	6
EX-4.0-S4	07-166-03	7
EX-6.0-S4	07-166-04	7
EX-6.0-B5	07-166-05	8



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



OnSite Environmental Inc.

Analytical Laboratory Testing Services
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Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Page 1 of 1

07-166

Company: Farallon		Turnaround Request (in working days)		Laboratory Number: 07-166																	
Project Number: 1140-001		(Check One)																			
Project Name: EDS TRANSMISSION		☐ Same Day ☒ 1 Day																			
Project Manager: SARAH RUMER		☐ 2 Days ☐ 3 Days																			
Sampled by: Dincea K.		☐ Standard (7 Days) (TPH analysis 5 Days)																			
Sample ID		Date Sampled		Time Sampled		Matrix		Number of Containers													
1 EX-4.0-S3E		7/24		0927		S		1													
2 EX-6.0-S3E				0926																	
3 EX-4.0-S4				1045																	
4 EX-6.0-S4				1046																	
5 EX-6.0-B5				1047																	
Signature		Company		Date		Time		Comments/Special Instructions													
		Farallon		7/24		1326															
Relinquished																					
Received																					
Relinquished																					
Received																					
Relinquished																					
Received																					
Relinquished																					
Received																					
Relinquished																					
Reviewed/Date		Reviewed/Date						Chromatograms with final report ☐													



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 5, 2013

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1160-001
Laboratory Reference No. 1308-013

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on August 2, 2013.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 5, 2013
Samples Submitted: August 2, 2013
Laboratory Reference: 1308-013
Project: 1160-001

Case Narrative

Samples were collected on August 2, 2013 and received by the laboratory on August 2, 2013. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 5, 2013
 Samples Submitted: August 2, 2013
 Laboratory Reference: 1308-013
 Project: 1160-001

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EX-6.0-S5					
Laboratory ID:	08-013-01					
Diesel Range Organics	ND	26	NWTPH-Dx	8-2-13	8-2-13	
Lube Oil Range Organics	ND	53	NWTPH-Dx	8-2-13	8-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	83	50-150				
Client ID:	EX-4.5-S5					
Laboratory ID:	08-013-02					
Diesel Range Organics	ND	27	NWTPH-Dx	8-2-13	8-2-13	
Lube Oil	230	53	NWTPH-Dx	8-2-13	8-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	80	50-150				
Client ID:	EX-8.0-BS2					
Laboratory ID:	08-013-03					
Diesel Range Organics	ND	27	NWTPH-Dx	8-2-13	8-2-13	
Lube Oil	140	54	NWTPH-Dx	8-2-13	8-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	84	50-150				
Client ID:	EX-8.0-BS					
Laboratory ID:	08-013-04					
Diesel Range Organics	ND	27	NWTPH-Dx	8-2-13	8-2-13	
Lube Oil Range Organics	ND	54	NWTPH-Dx	8-2-13	8-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	84	50-150				

Date of Report: August 5, 2013
 Samples Submitted: August 2, 2013
 Laboratory Reference: 1308-013
 Project: 1160-001

**NWTPH-Dx
QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0802S2					
Diesel Range Organics	ND	25	NWTPH-Dx	8-2-13	8-2-13	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-2-13	8-2-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				

Analyte	Result		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-013-01							
	ORIG	DUP						
Diesel Range Organics	ND	ND				NA	NA	
Lube Oil Range Organics	ND	ND				NA	NA	
Surrogate:								
o-Terphenyl			83	86	50-150			

Date of Report: August 5, 2013
 Samples Submitted: August 2, 2013
 Laboratory Reference: 1308-013
 Project: 1160-001

**TOTAL LEAD
EPA 6010C**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-013-01					
Client ID:	EX-6.0-S5					
Lead	180	5.3	6010C	8-2-13	8-2-13	
Lab ID:	08-013-02					
Client ID:	EX-4.5-S5					
Lead	690	5.3	6010C	8-2-13	8-2-13	
Lab ID:	08-013-03					
Client ID:	EX-8.0-BS2					
Lead	250	5.4	6010C	8-2-13	8-2-13	
Lab ID:	08-013-04					
Client ID:	EX-8.0-BS					
Lead	31	5.4	6010C	8-2-13	8-2-13	

Date of Report: August 5, 2013
Samples Submitted: August 2, 2013
Laboratory Reference: 1308-013
Project: 1160-001

**TOTAL LEAD
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-2-13
Date Analyzed: 8-2-13

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0802SM1

Analyte	Method	Result	PQL
Lead	6010C	ND	5.0

Date of Report: August 5, 2013
Samples Submitted: August 2, 2013
Laboratory Reference: 1308-013
Project: 1160-001

**TOTAL LEAD
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-2-13

Date Analyzed: 8-2-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-013-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	168	164	3	5.0	

Date of Report: August 5, 2013
Samples Submitted: August 2, 2013
Laboratory Reference: 1308-013
Project: 1160-001

**TOTAL LEAD
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 8-2-13

Date Analyzed: 8-2-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-013-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	408	96	396	91	3	

Date of Report: August 5, 2013
Samples Submitted: August 2, 2013
Laboratory Reference: 1308-013
Project: 1160-001

% MOISTURE

Date Analyzed: 8-2-13

Client ID	Lab ID	% Moisture
EX-6.0-S5	08-013-01	5
EX-4.5-S5	08-013-02	6
EX-8.0-BS2	08-013-03	7
EX-8.0-BS	08-013-04	7



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



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Chain of Custody

Page 1 of 1

[illegible]



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August 28, 2013

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1160-001
Laboratory Reference No. 1308-188

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on August 27, 2013.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", followed by a long horizontal flourish.

David Baumeister
Project Manager

Enclosures

Date of Report: August 28, 2013
Samples Submitted: August 27, 2013
Laboratory Reference: 1308-188
Project: 1160-001

Case Narrative

Samples were collected on August 27, 2013 and received by the laboratory on August 27, 2013. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 28, 2013
Samples Submitted: August 27, 2013
Laboratory Reference: 1308-188
Project: 1160-001

**TOTAL LEAD
EPA 6010C**

Matrix: Soil
Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	08-188-01					
Client ID:	PIPE-SW-4.0-082713					
Lead	290	5.5	6010C	8-27-13	8-27-13	

Date of Report: August 28, 2013
Samples Submitted: August 27, 2013
Laboratory Reference: 1308-188
Project: 1160-001

**TOTAL LEAD
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-27-13
Date Analyzed: 8-27-13

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0827SM2

Analyte	Method	Result	PQL
Lead	6010C	ND	5.0

Date of Report: August 28, 2013
Samples Submitted: August 27, 2013
Laboratory Reference: 1308-188
Project: 1160-001

**TOTAL LEAD
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-27-13

Date Analyzed: 8-27-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-174-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	282	389	32	5.0	K

Date of Report: August 28, 2013
Samples Submitted: August 27, 2013
Laboratory Reference: 1308-188
Project: 1160-001

**TOTAL LEAD
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 8-27-13

Date Analyzed: 8-27-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-174-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	549	107	420	55	27	V,W

Date of Report: August 28, 2013
Samples Submitted: August 27, 2013
Laboratory Reference: 1308-188
Project: 1160-001

% MOISTURE

Date Analyzed: 8-27-13

Client ID	Lab ID	% Moisture
PIPE-SW-4.0-082713	08-188-01	9



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



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August 30, 2013

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1160-001
Laboratory Reference No. 1308-218

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on August 29, 2013.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', followed by a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 30, 2013
Samples Submitted: August 29, 2013
Laboratory Reference: 1308-218
Project: 1160-001

Case Narrative

Samples were collected on August 29, 2013 and received by the laboratory on August 29, 2013. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 30, 2013
 Samples Submitted: August 29, 2013
 Laboratory Reference: 1308-218
 Project: 1160-001

**TOTAL LEAD
EPA 6010C**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-218-01					
Client ID:	EX-4.5-S6-082913					
Lead	120	5.5	6010C	8-30-13	8-30-13	
Lab ID:	08-218-02					
Client ID:	EX-6.0-S6-082913					
Lead	ND	5.4	6010C	8-30-13	8-30-13	
Lab ID:	08-218-03					
Client ID:	EX-4.5-S7-082913					
Lead	1100	5.3	6010C	8-30-13	8-30-13	
Lab ID:	08-218-04					
Client ID:	EX-6.0-S7-082913					
Lead	130	5.3	6010C	8-30-13	8-30-13	

Date of Report: August 30, 2013
Samples Submitted: August 29, 2013
Laboratory Reference: 1308-218
Project: 1160-001

**TOTAL LEAD
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-30-13
Date Analyzed: 8-30-13

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0830SM1

Analyte	Method	Result	PQL
Lead	6010C	ND	5.0

Date of Report: August 30, 2013
Samples Submitted: August 29, 2013
Laboratory Reference: 1308-218
Project: 1160-001

**TOTAL LEAD
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-30-13

Date Analyzed: 8-30-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-218-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	109	120	9	5.0	

Date of Report: August 30, 2013
Samples Submitted: August 29, 2013
Laboratory Reference: 1308-218
Project: 1160-001

**TOTAL LEAD
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 8-30-13

Date Analyzed: 8-30-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-218-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	330	88	338	92	3	

Date of Report: August 30, 2013
Samples Submitted: August 29, 2013
Laboratory Reference: 1308-218
Project: 1160-001

% MOISTURE

Date Analyzed: 8-29-13

Client ID	Lab ID	% Moisture
EX-4.5-S6-082913	08-218-01	10
EX-6.0-S6-082913	08-218-02	7
EX-4.5-S7-082913	08-218-03	5
EX-6.0-S7-082913	08-218-04	5



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



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Page 1 of 1

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October 8, 2013

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1160-001
Laboratory Reference No. 1310-063

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on October 7, 2013.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', followed by a horizontal line.

David Baumeister
Project Manager

Enclosures

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

Case Narrative

Samples were collected on October 5, 2013 and received by the laboratory on October 7, 2013. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: October 8, 2013
 Samples Submitted: October 7, 2013
 Laboratory Reference: 1310-063
 Project: 1160-001

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EX-6.0-W2-100513						
Laboratory ID: 10-063-02						
Diesel Range Organics	ND	27	NWTPH-Dx	10-7-13	10-7-13	
Lube Oil Range Organics	ND	53	NWTPH-Dx	10-7-13	10-7-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	77	50-150				
Client ID: EX-4.0-S1-100513						
Laboratory ID: 10-063-04						
Diesel Range Organics	ND	26	NWTPH-Dx	10-7-13	10-7-13	
Lube Oil Range Organics	ND	52	NWTPH-Dx	10-7-13	10-7-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	81	50-150				
Client ID: EX-4.0-E3-100513						
Laboratory ID: 10-063-11						
Diesel Range Organics	ND	27	NWTPH-Dx	10-7-13	10-7-13	
Lube Oil Range Organics	ND	53	NWTPH-Dx	10-7-13	10-7-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	72	50-150				
Client ID: EX-4.0-W4-100513						
Laboratory ID: 10-063-15						
Diesel Range Organics	ND	27	NWTPH-Dx	10-7-13	10-7-13	
Lube Oil Range Organics	ND	53	NWTPH-Dx	10-7-13	10-7-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	84	50-150				
Client ID: EX-4.0-E5-100513						
Laboratory ID: 10-063-21						
Diesel Range Organics	ND	27	NWTPH-Dx	10-7-13	10-7-13	
Lube Oil	130	55	NWTPH-Dx	10-7-13	10-7-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				

Date of Report: October 8, 2013
 Samples Submitted: October 7, 2013
 Laboratory Reference: 1310-063
 Project: 1160-001

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1007S1					
Diesel Range Organics	ND	25	NWTPH-Dx	10-7-13	10-7-13	
Lube Oil Range Organics	ND	50	NWTPH-Dx	10-7-13	10-7-13	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	85	50-150				

Analyte	Result		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-059-02							
	ORIG	DUP						
Diesel Fuel #2	748	618						
Lube Oil	212	174						
Surrogate:								
o-Terphenyl			98	83	50-150			

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

TCLP LEAD
EPA 1311/6010C

Matrix: TCLP Extract
Units: mg/L (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	10-063-23					
Client ID:	EX-STOCKPILE-100513					
Lead	ND	0.20	6010C	10-8-13	10-8-13	

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

**TCLP LEAD
EPA 1311/6010C
METHOD BLANK QUALITY CONTROL**

Date Prepared: 10-7-13
Date Extracted: 10-8-13
Date Analyzed: 10-8-13

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: MB1008T1

Analyte	Method	Result	PQL
Lead	6010C	ND	0.20

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

**TCLP LEAD
EPA 1311/6010C
DUPLICATE QUALITY CONTROL**

Date Prepared: 10-7-13
Date Extracted: 10-8-13
Date Analyzed: 10-8-13

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 10-063-23

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	ND	ND	NA	0.20	

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

**TCLP LEAD
EPA 1311/6010C
MS/MSD QUALITY CONTROL**

Date Prepared: 10-7-13
Date Extracted: 10-8-13
Date Analyzed: 10-8-13

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 10-063-23

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	10.0	9.13	91	9.11	91	0	

Date of Report: October 8, 2013
 Samples Submitted: October 7, 2013
 Laboratory Reference: 1310-063
 Project: 1160-001

**TOTAL LEAD
EPA 6010C**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-063-01					
Client ID:	EX-4.0-W2-100513					
Lead	ND	5.4	6010C	10-7-13	10-7-13	
Lab ID:	10-063-02					
Client ID:	EX-6.0-W2-100513					
Lead	11	5.3	6010C	10-7-13	10-7-13	
Lab ID:	10-063-03					
Client ID:	EX-4.0-W1-100513					
Lead	ND	5.3	6010C	10-7-13	10-7-13	
Lab ID:	10-063-04					
Client ID:	EX-4.0-S1-100513					
Lead	27	5.2	6010C	10-7-13	10-7-13	
Lab ID:	10-063-05					
Client ID:	EX-4.0-E1-100513					
Lead	22	5.4	6010C	10-7-13	10-7-13	
Lab ID:	10-063-06					
Client ID:	EX-6.0-W1-100513					
Lead	ND	5.3	6010C	10-7-13	10-7-13	
Lab ID:	10-063-07					
Client ID:	EX-6.0-S1-100513					
Lead	7.4	5.4	6010C	10-7-13	10-7-13	

Date of Report: October 8, 2013
 Samples Submitted: October 7, 2013
 Laboratory Reference: 1310-063
 Project: 1160-001

**TOTAL LEAD
EPA 6010C**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-063-08					
Client ID:	EX-6.0-E1-100513					
Lead	7.4	5.3	6010C	10-7-13	10-7-13	
Lab ID:	10-063-09					
Client ID:	EX-4.0-E2-100513					
Lead	ND	5.3	6010C	10-7-13	10-7-13	
Lab ID:	10-063-10					
Client ID:	EX-6.0-E2-100513					
Lead	ND	5.4	6010C	10-7-13	10-7-13	
Lab ID:	10-063-11					
Client ID:	EX-4.0-E3-100513					
Lead	91	5.3	6010C	10-7-13	10-7-13	
Lab ID:	10-063-12					
Client ID:	EX-8.0-E3-100513					
Lead	180	5.4	6010C	10-7-13	10-7-13	
Lab ID:	10-063-13					
Client ID:	EX-4.0-W3-100513					
Lead	ND	5.4	6010C	10-7-13	10-7-13	
Lab ID:	10-063-14					
Client ID:	EX-8.0-W3-100513					
Lead	ND	5.3	6010C	10-7-13	10-7-13	

Date of Report: October 8, 2013
 Samples Submitted: October 7, 2013
 Laboratory Reference: 1310-063
 Project: 1160-001

**TOTAL LEAD
EPA 6010C**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-063-15					
Client ID:	EX-4.0-W4-100513					
Lead	6.4	5.3	6010C	10-7-13	10-7-13	
Lab ID:	10-063-16					
Client ID:	EX-8.0-W4-100513					
Lead	13	5.3	6010C	10-7-13	10-7-13	
Lab ID:	10-063-17					
Client ID:	EX-4.0-E4-100513					
Lead	84	5.6	6010C	10-7-13	10-7-13	
Lab ID:	10-063-18					
Client ID:	EX-8.0-E4-100513					
Lead	ND	5.9	6010C	10-7-13	10-7-13	
Lab ID:	10-063-19					
Client ID:	EX-4.00-W5-100513					
Lead	ND	5.2	6010C	10-7-13	10-7-13	
Lab ID:	10-063-20					
Client ID:	EX-8.0-W5-100513					
Lead	ND	5.5	6010C	10-7-13	10-7-13	
Lab ID:	10-063-21					
Client ID:	EX-4.0-E5-100513					
Lead	35	5.4	6010C	10-7-13	10-7-13	
Lab ID:	10-063-22					
Client ID:	EX-8.0-E5-100513					
Lead	140	5.5	6010C	10-7-13	10-7-13	

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

**TOTAL LEAD
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 10-7-13
Date Analyzed: 10-7-13

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB1007SM1

Analyte	Method	Result	PQL
Lead	6010C	ND	5.0

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

**TOTAL LEAD
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 10-7-13
Date Analyzed: 10-7-13

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB1007SM2

Analyte	Method	Result	PQL
Lead	6010C	ND	5.0

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

**TOTAL LEAD
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 10-7-13

Date Analyzed: 10-7-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 10-063-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	ND	ND	NA	5.0	

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

**TOTAL LEAD
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 10-7-13

Date Analyzed: 10-7-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 10-059-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	5.84	6.42	9	5.0	

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

**TOTAL LEAD
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 10-7-13

Date Analyzed: 10-7-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 10-063-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	232	93	236	94	2	

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

**TOTAL LEAD
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 10-7-13

Date Analyzed: 10-7-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 10-059-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	240	94	240	93	0	

Date of Report: October 8, 2013
 Samples Submitted: October 7, 2013
 Laboratory Reference: 1310-063
 Project: 1160-001

% MOISTURE

Date Analyzed: 10-7-13

Client ID	Lab ID	% Moisture
EX-4.0-W2-100513	10-063-01	8
EX-6.0-W2-100513	10-063-02	6
EX-4.0-W1-100513	10-063-03	6
EX-4.0-S1-100513	10-063-04	4
EX-4.0-E1-100513	10-063-05	8
EX-6.0-W1-100513	10-063-06	5
EX-6.0-S1-100513	10-063-07	8
EX-6.0-E1-100513	10-063-08	6
EX-4.0-E2-100513	10-063-09	6
EX-6.0-E2-100513	10-063-10	8
EX-4.0-E3-100513	10-063-11	6
EX-8.0-E3-100513	10-063-12	7
EX-4.0-W3-100513	10-063-13	8
EX-8.0-W3-100513	10-063-14	5
EX-4.0-W4-100513	10-063-15	6
EX-8.0-W4-100513	10-063-16	6
EX-4.0-E4-100513	10-063-17	10
EX-8.0-E4-100513	10-063-18	15
EX-4.0-W5-100513	10-063-19	3
EX-8.0-W5-100513	10-063-20	10
EX-4.0-E5-100513	10-063-21	8
EX-8.0-E5-100513	10-063-22	8



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



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Chain of Custody

Page 1 of 3
10-063

Company: Farallon Consulting					
Project Number: 1160-001					
Project Name: EJ's Transmissions					
Project Manager: Jovan Ruark					
Sampled by: Jerome Chen					
(Check One) ☐ Same Day ☒ 1 Day ☐ 2 Days ☐ 3 Days ☐ Standard (7 Days) (TPH analysis 5 Days) ☐ _____ (other)					
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	EX-4.0-W2-100513	10/05/13	1138	S	1
2	EX-6.0-W2-100513		1149		
3	EX-4.0-W1-100513		1155		
4	EX-4.0-S1-100513		1157		X
5	EX-4.0-E1-100513		1159		
6	EX-6.0-W1-100513		1205		
7	EX-6.0-S1-100513		1207		
8	EX-6.0-E1-100513		1209		
9	EX-4.0-E2-100513		1213		
10	EX-6.0-E2-100513		1215		
Signature		Company		Date	Time
		Farallon Consulting		10/07/13	0705
		J. Chen		10-7-13	7:05A
Comments/Special Instructions					
Will call for analysis - DJ					
Chromatograms with final report ☐					



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Page 2 of 3

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Page 3 of 3

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14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 16, 2014

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1160-001
Laboratory Reference No. 1409-109

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on September 11, 2014.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: September 16, 2014
Samples Submitted: September 11, 2014
Laboratory Reference: 1409-109
Project: 1160-001

Case Narrative

Samples were collected on September 11, 2014 and received by the laboratory on September 11, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: September 16, 2014
Samples Submitted: September 11, 2014
Laboratory Reference: 1409-109
Project: 1160-001

**TOTAL CHROMIUM
EPA 6010C**

Matrix: Soil
Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	09-109-01					
Client ID:	SB-6-7.0-091114					
Chromium	44	0.53	6010C	9-12-14	9-12-14	

Date of Report: September 16, 2014
Samples Submitted: September 11, 2014
Laboratory Reference: 1409-109
Project: 1160-001

**TOTAL CHROMIUM
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 9-12-14
Date Analyzed: 9-12-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0912SM1

Analyte	Method	Result	PQL
Chromium	6010C	ND	0.50

Date of Report: September 16, 2014
Samples Submitted: September 11, 2014
Laboratory Reference: 1409-109
Project: 1160-001

**TOTAL CHROMIUM
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 9-12-14

Date Analyzed: 9-12-14

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 09-070-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Chromium	31.7	29.3	8	0.50	

Date of Report: September 16, 2014
Samples Submitted: September 11, 2014
Laboratory Reference: 1409-109
Project: 1160-001

**TOTAL CHROMIUM
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 9-12-14

Date Analyzed: 9-12-14

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 09-070-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Chromium	100	132	100	133	102	1	

Date of Report: September 16, 2014
Samples Submitted: September 11, 2014
Laboratory Reference: 1409-109
Project: 1160-001

**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A**

Matrix: Soil
Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	09-109-01					
Client ID:	SB-6-7.0-091114					
Hexavalent Chromium	ND	1.1	7196A mod	9-12-14	9-12-14	

Date of Report: September 16, 2014
Samples Submitted: September 11, 2014
Laboratory Reference: 1409-109
Project: 1160-001

**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 9-12-14
Date Analyzed: 9-12-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0912S1

Analyte	Method	Result	PQL
Hexavalent Chromium	7196A mod	ND	1.0

Date of Report: September 16, 2014
Samples Submitted: September 11, 2014
Laboratory Reference: 1409-109
Project: 1160-001

**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
DUPLICATE QUALITY CONTROL**

Date Extracted: 9-12-14
Date Analyzed: 9-12-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 09-109-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Hexavalent Chromium	ND	ND	NA	1.0	

Date of Report: September 16, 2014
Samples Submitted: September 11, 2014
Laboratory Reference: 1409-109
Project: 1160-001

**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
MS/MSD QUALITY CONTROL**

Date Extracted: 9-12-14
Date Analyzed: 9-12-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 09-109-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Hexavalent Chromium	5.00	5.14	103	5.33	107	4	

Date of Report: September 16, 2014
Samples Submitted: September 11, 2014
Laboratory Reference: 1409-109
Project: 1160-001

% MOISTURE

Date Analyzed: 9-12-14

Client ID	Lab ID	% Moisture
SB-6-7.0-091114	09-109-01	7



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



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Page 1 of 1

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APPENDIX D
WASTE DISPOSAL DOCUMENTATION

CLEANUP ACTION SUMMARY REPORT

Ed's Transmissions
10226 State Avenue
Marysville, Washington

Farallon PN: 1160-001

LETTER OF TRANSMITTAL



3203 15th Street
Everett, WA 98201
Tel: [425] 252-5800
Fax: [425] 252-1093
www.clearcreekcon.com

TO: Republic Services
54 South Dawson Street
Seattle, WA 98134

ATTENTION: Dana Hopper
DATE: 11/19/2013
PROJECT: Ed's Transmission
JOB NO: 213048 TRANSMITTAL NO: 09

CC:

WE ARE SENDING YOU THE FOLLOWING ITEMS:

ITEM	COPIES	DESCRIPTION
Special Waste Profile	1	Revised
On Site Environmental	1	July 25, 2013
On Site Environmental	1	October 8, 2013
On Site Environmental	1	October 16, 2013

REMARKS:

Enclosed is the revised Special Waste Profile and laboratory reports for the Ed's Transmission project in Marysville.

Mass Excavation • Site Remediation • Site Development • Soil/Water Disposal
Stream/Wetland Restoration • Treatment System Installation • Test Pitting
UST Decommissioning • Haz. Waste Transportation • Drum Profiling & Disposal



Requested Disposal Facility: 4178 Roosevelt Regional MSW LF WA

Waste Profile #

Savable fill-in form. Restricted printing until all required (yellow) fields are completed.

I. Generator Information

Sales Rep #:

Generator Name: ROM Holdings

Generator Site Address: 10226 State Avenue

City: Marysville

County: Snohomish

State: Washington

Zip: 98271

State ID/Reg No:

State Approval/Waste Code:

(if applicable)

NAICS #:

Generator Mailing Address (if different): ☒ 4203 81st Place Northeast

City: Marysville

County: Snohomish

State: Washington

Zip: 98271

Generator Contact Name: Richard Matson

Email: pilchuck1@frontier.com

Phone Number: (425) 239-2098

Ext:

Fax Number:

II. Billing Information

Bill To: Clearcreek Contractors, Inc.

Contact Name: Darren Ness

Billing Address: 3203 15th Street

Email: DarrenN@clearcreekcon.com

City: Everett

State: WA

Zip: 98201

Phone: (425) 252-5800

III. Waste Stream Information

Name of Waste: Soil with hydrocarbons and lead

Process Generating Waste:
remedial excavationType of Waste: ☐ INDUSTRIAL PROCESS WASTE ☒ POLLUTION CONTROL WASTEPhysical State: ☒ SOLID ☐ SEMI-SOLID ☐ POWDER ☐ LIQUIDMethod of Shipment: ☒ BULK ☐ DRUM ☐ BAGGED ☐ OTHER:

Estimated Annual Volume: 100 Tons

Frequency: ☒ ONE TIME ☐ ONGOINGDisposal Consideration: ☒ LANDFILL ☐ SOLIDIFICATION ☐ BIOREMEDIATION**IV. Representative Sample Certification**☐ NO SAMPLE TAKENIs the representative sample collected to prepare this profile and laboratory analysis,
collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?☒ YES or ☐ NOType of Sample: ☐ COMPOSITE SAMPLE ☒ GRAB SAMPLE

Sample Date: 7/24/13

Sample ID Numbers: X-4.0-S3E, EX-6.0-S3E, EX-4.0-S4, EX-6.0-S4, EX-6.0-BS; EX-4.0-E3-100513,
EX-8.0-E3-100513, EX-4.0-W3-100513, EX-8.0-W3-100513, EX-4.0-W4-100513,
EX-8.0-W4-100513, EX-4.0-E4-100513, EX-8.0-E4-100513, EX-4.0-W5-100513,
EX-8.0-W5-100513, EX-4.0-E5-100513, EX-8.0-E5-100513, EX-STOCKPILE-100513; EX-6.0-W2



Waste Profile #

V. Physical Characteristics of Waste

Characteristic Components		% by Weight (range)			
1. Soil		99			
2. Debris		1			
3.					
4.					
5.					
Color	Odor (describe)	Does Waste Contain Free Liquids?	% Solids	pH:	Flash Point
Brown	None	☐ YES or ☒ NO	100		°F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile

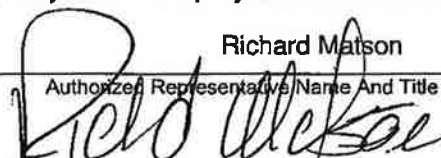
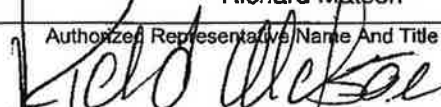
Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ Yes or ☒ No
Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm)[reference 40 CFR 261.23(a)(5)]?	☐ Yes or ☒ No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ Yes or ☒ No
Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ Yes or ☒ No
Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	☐ Yes or ☒ No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?	☐ Yes or ☒ No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ Yes or ☒ No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ Yes or ☒ No
Is this waste a reactive or heat generating waste?	☐ Yes or ☒ No
Does the waste contain sulfur or sulfur by-products?	☐ Yes or ☒ No
Is this waste generated at a Federal Superfund Clean Up Site?	☐ Yes or ☒ No
Is this waste from a TSD facility, TSD like facility or consolidator?	☐ Yes or ☒ No

VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

 Richard Matson Authorized Representative Name And Title (Type or Print)	R.O.M. Holdings Company Name
 Authorized Representative Signature	11-19-13 Date



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 25, 2013

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1160-001
Laboratory Reference No. 1307-166

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on July 24, 2013.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", followed by a long horizontal flourish.

David Baumeister
Project Manager

Enclosures

Date of Report: July 25, 2013
Samples Submitted: July 24, 2013
Laboratory Reference: 1307-166
Project: 1160-001

Case Narrative

Samples were collected on July 24, 2013 and received by the laboratory on July 24, 2013. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: July 25, 2013
 Samples Submitted: July 24, 2013
 Laboratory Reference: 1307-166
 Project: 1160-001

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Units: mg/kg (ppm)						
Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EX-4.0-S3E					
Laboratory ID:	07-166-01					
Diesel Range Organics	ND	26	NWTPH-Dx	7-24-13	7-24-13	
Lube Oil Range Organics	ND	53	NWTPH-Dx	7-24-13	7-24-13	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	74	50-150				
Client ID:	EX-6.0-S3E					
Laboratory ID:	07-166-02					
Diesel Range Organics	ND	27	NWTPH-Dx	7-24-13	7-24-13	
Lube Oil Range Organics	ND	53	NWTPH-Dx	7-24-13	7-24-13	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	76	50-150				
Client ID:	EX-4.0-S4					
Laboratory ID:	07-166-03					
Diesel Range Organics	ND	27	NWTPH-Dx	7-24-13	7-24-13	
Lube Oil	130	54	NWTPH-Dx	7-24-13	7-24-13	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	67	50-150				
Client ID:	EX-6.0-S4					
Laboratory ID:	07-166-04					
Diesel Range Organics	ND	27	NWTPH-Dx	7-24-13	7-24-13	
Lube Oil	130	54	NWTPH-Dx	7-24-13	7-24-13	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	68	50-150				
Client ID:	EX-6.0-B5					
Laboratory ID:	07-166-05					
Diesel Range Organics	ND	27	NWTPH-Dx	7-24-13	7-24-13	
Lube Oil Range Organics	ND	54	NWTPH-Dx	7-24-13	7-24-13	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	68	50-150				

Date of Report: July 25, 2013
 Samples Submitted: July 24, 2013
 Laboratory Reference: 1307-166
 Project: 1160-001

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0724S1					
Diesel Range Organics	ND	25	NWTPH-Dx	7-24-13	7-24-13	
Lube Oil Range Organics	ND	50	NWTPH-Dx	7-24-13	7-24-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				

Analyte	Result		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags	
DUPLICATE									
Laboratory ID:	07-133-04								
	ORIG	DUP							
Diesel Fuel #2	86.2	53.2					47	NA	M
Lube Oil	184	144					24	NA	
Surrogate:									
o-Terphenyl			73	79	50-150				

Date of Report: July 25, 2013
 Samples Submitted: July 24, 2013
 Laboratory Reference: 1307-166
 Project: 1160-001

**TOTAL LEAD
EPA 6010C**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-166-01					
Client ID:	EX-4.0-S3E					
Lead	ND	5.3	6010C	7-24-13	7-24-13	
Lab ID:	07-166-02					
Client ID:	EX-6.0-S3E					
Lead	ND	5.3	6010C	7-24-13	7-24-13	
Lab ID:	07-166-03					
Client ID:	EX-4.0-S4					
Lead	850	5.3	6010C	7-24-13	7-24-13	
Lab ID:	07-166-04					
Client ID:	EX-6.0-S4					
Lead	760	5.4	6010C	7-24-13	7-24-13	
Lab ID:	07-166-05					
Client ID:	EX-6.0-B5					
Lead	370	5.4	6010C	7-24-13	7-24-13	

Date of Report: July 25, 2013
Samples Submitted: July 24, 2013
Laboratory Reference: 1307-166
Project: 1160-001

**TOTAL LEAD
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-24-13
Date Analyzed: 7-24-13

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0724SM1

Analyte	Method	Result	PQL
Lead	6010C	ND	5.0

Date of Report: July 25, 2013
Samples Submitted: July 24, 2013
Laboratory Reference: 1307-166
Project: 1160-001

**TOTAL LEAD
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 7-24-13

Date Analyzed: 7-24-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-153-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	5.98	6.71	12	5.0	

Date of Report: July 25, 2013
Samples Submitted: July 24, 2013
Laboratory Reference: 1307-166
Project: 1160-001

**TOTAL LEAD
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 7-24-13

Date Analyzed: 7-24-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 07-153-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	231	90	234	91	1	

Date of Report: July 25, 2013
Samples Submitted: July 24, 2013
Laboratory Reference: 1307-166
Project: 1160-001

% MOISTURE

Date Analyzed: 7-24-13

Client ID	Lab ID	% Moisture
EX-4.0-S3E	07-166-01	5
EX-6.0-S3E	07-166-02	6
EX-4.0-S4	07-166-03	7
EX-6.0-S4	07-166-04	7
EX-6.0-B5	07-166-05	8



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



OnSite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Page 1 of 1

07-166

Company: Farallon		Turnaround Request (in working days)		Laboratory Number: 07-166																	
Project Number: 1140-001		(Check One)																			
Project Name: EDS TRANSMISSION		☐ Same Day ☒ 1 Day																			
Project Manager: SARAH RUMER		☐ 2 Days ☐ 3 Days																			
Sampled by: Dincea K.		☐ Standard (7 Days) (TPH analysis 5 Days)																			
Sample ID		Date Sampled		Time Sampled		Matrix		Number of Containers													
1 EX-4.0-S3E		7/24		0927		S		1													
2 EX-6.0-S3E				0926																	
3 EX-4.0-S4				1045																	
4 EX-6.0-S4				1046																	
5 EX-6.0-B5				1047																	
Signature		Company		Date		Time		Comments/Special Instructions													
		Farallon		7/24		1326															
Relinquished																					
Received																					
Relinquished																					
Received																					
Relinquished																					
Received																					
Relinquished																					
Received																					
Relinquished																					
Reviewed/Date		Reviewed/Date						Chromatograms with final report ☐													



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 8, 2013

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1160-001
Laboratory Reference No. 1310-063

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on October 7, 2013.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", followed by a long horizontal stroke.

David Baumeister
Project Manager

Enclosures

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

Case Narrative

Samples were collected on October 5, 2013 and received by the laboratory on October 7, 2013. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: October 8, 2013
 Samples Submitted: October 7, 2013
 Laboratory Reference: 1310-063
 Project: 1160-001

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EX-6.0-W2-100513						
Laboratory ID: 10-063-02						
Diesel Range Organics	ND	27	NWTPH-Dx	10-7-13	10-7-13	
Lube Oil Range Organics	ND	53	NWTPH-Dx	10-7-13	10-7-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	77	50-150				
Client ID: EX-4.0-S1-100513						
Laboratory ID: 10-063-04						
Diesel Range Organics	ND	26	NWTPH-Dx	10-7-13	10-7-13	
Lube Oil Range Organics	ND	52	NWTPH-Dx	10-7-13	10-7-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	81	50-150				
Client ID: EX-4.0-E3-100513						
Laboratory ID: 10-063-11						
Diesel Range Organics	ND	27	NWTPH-Dx	10-7-13	10-7-13	
Lube Oil Range Organics	ND	53	NWTPH-Dx	10-7-13	10-7-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	72	50-150				
Client ID: EX-4.0-W4-100513						
Laboratory ID: 10-063-15						
Diesel Range Organics	ND	27	NWTPH-Dx	10-7-13	10-7-13	
Lube Oil Range Organics	ND	53	NWTPH-Dx	10-7-13	10-7-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	84	50-150				
Client ID: EX-4.0-E5-100513						
Laboratory ID: 10-063-21						
Diesel Range Organics	ND	27	NWTPH-Dx	10-7-13	10-7-13	
Lube Oil	130	55	NWTPH-Dx	10-7-13	10-7-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				

Date of Report: October 8, 2013
 Samples Submitted: October 7, 2013
 Laboratory Reference: 1310-063
 Project: 1160-001

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1007S1					
Diesel Range Organics	ND	25	NWTPH-Dx	10-7-13	10-7-13	
Lube Oil Range Organics	ND	50	NWTPH-Dx	10-7-13	10-7-13	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	85	50-150				

Analyte	Result		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-059-02							
	ORIG	DUP						
Diesel Fuel #2	748	618						
Lube Oil	212	174						
Surrogate:								
o-Terphenyl			98	83	50-150			

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

TCLP LEAD
EPA 1311/6010C

Matrix: TCLP Extract
Units: mg/L (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	10-063-23					
Client ID:	EX-STOCKPILE-100513					
Lead	ND	0.20	6010C	10-8-13	10-8-13	

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

**TCLP LEAD
EPA 1311/6010C
METHOD BLANK QUALITY CONTROL**

Date Prepared: 10-7-13
Date Extracted: 10-8-13
Date Analyzed: 10-8-13

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: MB1008T1

Analyte	Method	Result	PQL
Lead	6010C	ND	0.20

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

**TCLP LEAD
EPA 1311/6010C
DUPLICATE QUALITY CONTROL**

Date Prepared: 10-7-13
Date Extracted: 10-8-13
Date Analyzed: 10-8-13

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 10-063-23

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	ND	ND	NA	0.20	

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

**TCLP LEAD
EPA 1311/6010C
MS/MSD QUALITY CONTROL**

Date Prepared: 10-7-13
Date Extracted: 10-8-13
Date Analyzed: 10-8-13

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 10-063-23

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	10.0	9.13	91	9.11	91	0	

Date of Report: October 8, 2013
 Samples Submitted: October 7, 2013
 Laboratory Reference: 1310-063
 Project: 1160-001

**TOTAL LEAD
EPA 6010C**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-063-01					
Client ID:	EX-4.0-W2-100513					
Lead	ND	5.4	6010C	10-7-13	10-7-13	
Lab ID:	10-063-02					
Client ID:	EX-6.0-W2-100513					
Lead	11	5.3	6010C	10-7-13	10-7-13	
Lab ID:	10-063-03					
Client ID:	EX-4.0-W1-100513					
Lead	ND	5.3	6010C	10-7-13	10-7-13	
Lab ID:	10-063-04					
Client ID:	EX-4.0-S1-100513					
Lead	27	5.2	6010C	10-7-13	10-7-13	
Lab ID:	10-063-05					
Client ID:	EX-4.0-E1-100513					
Lead	22	5.4	6010C	10-7-13	10-7-13	
Lab ID:	10-063-06					
Client ID:	EX-6.0-W1-100513					
Lead	ND	5.3	6010C	10-7-13	10-7-13	
Lab ID:	10-063-07					
Client ID:	EX-6.0-S1-100513					
Lead	7.4	5.4	6010C	10-7-13	10-7-13	

Date of Report: October 8, 2013
 Samples Submitted: October 7, 2013
 Laboratory Reference: 1310-063
 Project: 1160-001

**TOTAL LEAD
EPA 6010C**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-063-08					
Client ID:	EX-6.0-E1-100513					
Lead	7.4	5.3	6010C	10-7-13	10-7-13	
Lab ID:	10-063-09					
Client ID:	EX-4.0-E2-100513					
Lead	ND	5.3	6010C	10-7-13	10-7-13	
Lab ID:	10-063-10					
Client ID:	EX-6.0-E2-100513					
Lead	ND	5.4	6010C	10-7-13	10-7-13	
Lab ID:	10-063-11					
Client ID:	EX-4.0-E3-100513					
Lead	91	5.3	6010C	10-7-13	10-7-13	
Lab ID:	10-063-12					
Client ID:	EX-8.0-E3-100513					
Lead	180	5.4	6010C	10-7-13	10-7-13	
Lab ID:	10-063-13					
Client ID:	EX-4.0-W3-100513					
Lead	ND	5.4	6010C	10-7-13	10-7-13	
Lab ID:	10-063-14					
Client ID:	EX-8.0-W3-100513					
Lead	ND	5.3	6010C	10-7-13	10-7-13	

Date of Report: October 8, 2013
 Samples Submitted: October 7, 2013
 Laboratory Reference: 1310-063
 Project: 1160-001

**TOTAL LEAD
EPA 6010C**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-063-15					
Client ID:	EX-4.0-W4-100513					
Lead	6.4	5.3	6010C	10-7-13	10-7-13	
Lab ID:	10-063-16					
Client ID:	EX-8.0-W4-100513					
Lead	13	5.3	6010C	10-7-13	10-7-13	
Lab ID:	10-063-17					
Client ID:	EX-4.0-E4-100513					
Lead	84	5.6	6010C	10-7-13	10-7-13	
Lab ID:	10-063-18					
Client ID:	EX-8.0-E4-100513					
Lead	ND	5.9	6010C	10-7-13	10-7-13	
Lab ID:	10-063-19					
Client ID:	EX-4.00-W5-100513					
Lead	ND	5.2	6010C	10-7-13	10-7-13	
Lab ID:	10-063-20					
Client ID:	EX-8.0-W5-100513					
Lead	ND	5.5	6010C	10-7-13	10-7-13	
Lab ID:	10-063-21					
Client ID:	EX-4.0-E5-100513					
Lead	35	5.4	6010C	10-7-13	10-7-13	
Lab ID:	10-063-22					
Client ID:	EX-8.0-E5-100513					
Lead	140	5.5	6010C	10-7-13	10-7-13	

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

**TOTAL LEAD
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 10-7-13
Date Analyzed: 10-7-13

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB1007SM1

Analyte	Method	Result	PQL
Lead	6010C	ND	5.0

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

**TOTAL LEAD
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 10-7-13
Date Analyzed: 10-7-13

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB1007SM2

Analyte	Method	Result	PQL
Lead	6010C	ND	5.0

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

**TOTAL LEAD
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 10-7-13

Date Analyzed: 10-7-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 10-063-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	ND	ND	NA	5.0	

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

**TOTAL LEAD
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 10-7-13

Date Analyzed: 10-7-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 10-059-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	5.84	6.42	9	5.0	

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

**TOTAL LEAD
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 10-7-13

Date Analyzed: 10-7-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 10-063-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	232	93	236	94	2	

Date of Report: October 8, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063
Project: 1160-001

**TOTAL LEAD
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 10-7-13

Date Analyzed: 10-7-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 10-059-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	240	94	240	93	0	

Date of Report: October 8, 2013
 Samples Submitted: October 7, 2013
 Laboratory Reference: 1310-063
 Project: 1160-001

% MOISTURE

Date Analyzed: 10-7-13

Client ID	Lab ID	% Moisture
EX-4.0-W2-100513	10-063-01	8
EX-6.0-W2-100513	10-063-02	6
EX-4.0-W1-100513	10-063-03	6
EX-4.0-S1-100513	10-063-04	4
EX-4.0-E1-100513	10-063-05	8
EX-6.0-W1-100513	10-063-06	5
EX-6.0-S1-100513	10-063-07	8
EX-6.0-E1-100513	10-063-08	6
EX-4.0-E2-100513	10-063-09	6
EX-6.0-E2-100513	10-063-10	8
EX-4.0-E3-100513	10-063-11	6
EX-8.0-E3-100513	10-063-12	7
EX-4.0-W3-100513	10-063-13	8
EX-8.0-W3-100513	10-063-14	5
EX-4.0-W4-100513	10-063-15	6
EX-8.0-W4-100513	10-063-16	6
EX-4.0-E4-100513	10-063-17	10
EX-8.0-E4-100513	10-063-18	15
EX-4.0-W5-100513	10-063-19	3
EX-8.0-W5-100513	10-063-20	10
EX-4.0-E5-100513	10-063-21	8
EX-8.0-E5-100513	10-063-22	8



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



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Chain of Custody

Page 1 of 3
10-063

Company: Farallon Consulting					
Project Number: 1160-001					
Project Name: EJ's Transmissions					
Project Manager: Jovan Ruark					
Sampled by: Jerome Chen					
(Check One) ☐ Same Day ☒ 1 Day ☐ 2 Days ☐ 3 Days ☐ Standard (7 Days) (TPH analysis 5 Days) ☐ _____ (other)					
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	EX-4.0-W2-100513	10/05/13	1138	S	1
2	EX-6.0-W2-100513		1149		
3	EX-4.0-W1-100513		1155		
4	EX-4.0-S1-100513		1157		
5	EX-4.0-E1-100513		1159		
6	EX-6.0-W1-100513		1205		
7	EX-6.0-S1-100513		1207		
8	EX-6.0-E1-100513		1209		
9	EX-4.0-E2-100513		1213		
10	EX-6.0-E2-100513		1215		
		NWTPH-HCID			
		NWTPH-Gx/BTEX			
		NWTPH-Gx			
		NWTPH-Dx			
		Volatiles 8260C			
		Halogenated Volatiles 8260C			
		Semivolatiles 8270D/SIM (with low-level PAHs)			
		PAHs 8270D/SIM (low-level)			
		PCBs 8082A			
		Organochlorine Pesticides 8081B			
		Organophosphorus Pesticides 8270D/SIM			
		Chlorinated Acid Herbicides 8151A			
		Total RCRA Metals/ MTCA Metals (circle one)			
		TCLP Metals			
		HEM (oil and grease) 1664A			
		Total Lead			
		% Moisture			
Signature		Company			
Farallon Consulting		Farallon Consulting			
Date		Time			
10/07/13		0705			
Comments/Special Instructions		Will call for analysis			
Received		OSR			
Relinquished		10.7.13 7:05A			
Received					
Relinquished					
Received					
Relinquished					
Reviewed/Date		Reviewed/Date			
Chromatograms with final report					



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Chain of Custody

Page 2 of 3

CIVIL ENGINEERING INC.

Analytical Laboratory Testing Services
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Phone: (425) 883-3881 • www.civil-inc.com

Laboratory Number:

10-063

Company: Farellon Consulting		Turnaround Request (in working days)																					
Project Number: 1160-001		(Check One)																					
Project Name: Eddy's Transmissions		☐ Same Day		☒ 1 Day																			
Project Manager: Javen Ruark		☐ 2 Days		☐ 3 Days																			
Sampled by: Jerome Chen		☐ Standard (7 Days) (TPH analysis 5 Days)																					
		☐		(other)																			
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers																		
11	EX-4.0-E3-100513	10/05/13	1257	S	1	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals/ MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664A	Total Lead	% Moisture	
12	EX-8.0-E3-100513		1303			X																	X
13	EX-4.0-W3-100513		1308																				X
14	EX-8.0-W3-100513		1316																				X
15	EX-4.0-W4-100513		1324						X														X
16	EX-8.0-W4-100513		1337																				X
17	EX-4.0-E4-100513		1342																				X
18	EX-8.0-E4-100513		1409																				X
19	EX-4.0-W5-100513		1420																				X
20	EX-8.0-W5-100513		1431																				X
Signature: 		Company: Farellon Consulting		Date: 10/07/13		Time: 0705		Comments/Special Instructions: Will call for analysis - SJ															
Received																							
Relinquished																							
Received																							
Relinquished																							
Received																							
Relinquished																							
Reviewed/Date		Reviewed/Date		Reviewed/Date		Chromatograms with final report ☐																	



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Page 3 of 3

[illegible]



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October 16, 2013

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1160-001
Laboratory Reference No. 1310-063B

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on October 7, 2013.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: October 16, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063B
Project: 1160-001

Case Narrative

Samples were collected on October 5, 2013 and received by the laboratory on October 7, 2013. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: October 16, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063B
Project: 1160-001

TCLP LEAD
EPA 1311/6010C

Matrix: TCLP Extract
Units: mg/L (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	10-063-12					
Client ID:	EX-8.0-E3-100513					
Lead	2.0	0.20	6010C	10-15-13	10-15-13	
Lab ID:	10-063-22					
Client ID:	EX-8.0-E5-100513					
Lead	0.45	0.20	6010C	10-15-13	10-15-13	

Date of Report: October 16, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063B
Project: 1160-001

**TCLP LEAD
EPA 1311/6010C
METHOD BLANK QUALITY CONTROL**

Date Prepared: 10-14-13
Date Extracted: 10-15-13
Date Analyzed: 10-15-13

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: MB1015T1

Analyte	Method	Result	PQL
Lead	6010C	ND	0.20

Date of Report: October 16, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063B
Project: 1160-001

**TCLP LEAD
EPA 1311/6010C
DUPLICATE QUALITY CONTROL**

Date Prepared: 10-14-13
Date Extracted: 10-15-13
Date Analyzed: 10-15-13

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 10-141-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	ND	ND	NA	0.20	

Date of Report: October 16, 2013
Samples Submitted: October 7, 2013
Laboratory Reference: 1310-063B
Project: 1160-001

**TCLP LEAD
EPA 1311/6010C
MS/MSD QUALITY CONTROL**

Date Prepared: 10-14-13

Date Extracted: 10-15-13

Date Analyzed: 10-15-13

Matrix: TCLP Extract

Units: mg/L (ppm)

Lab ID: 10-141-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	10.0	9.28	93	9.32	93	0	



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference

Chain of Custody

Company: Farallon Consulting

Project Number: 1160-001

Project Name: Ed's Transmissions

Project Manager: Javen Ruark

Sampled by: Jerome Chen

Turnaround Request (in working days)

(Check One)

☐ Same Day ☒ 1 Day

☐ 2 Days ☐ 3 Days

☐ Standard (7 Days)
(TPH analysis 5 Days)

☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Laboratory Number: 10-063															
						NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals/ MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664A	Total Lead
11	EX-4.0-E3-100513	10/05/13	1257	S	1				X											X	
12	EX-8.0-E3-100513		1303																	X	
13	EX-4.0-W3-100513		1308																	X	
14	EX-8.0-W3-100513		1316																	X	
15	EX-4.0-W4-100513		1324						X											X	
16	EX-8.0-W4-100513		1337																	X	
17	EX-4.0-E4-100513		1342																	X	
18	EX-8.0-E4-100513		1409																	X	
19	EX-4.0-W5-100513		1420																	X	
20	EX-8.0-W5-100513		1431																	X	

Signature: [Signature] **Company:** Farallon Consulting **Date:** 10/07/13 **Time:** 0705

Comments/Special Instructions: with cell for analysis

☐ Chromatograms with final report



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Chain of Custody

Page 33 of 33

Company: Farellon Consulting Project Number: 1160-001 Project Name: E8's Transmissions Project Manager: Javan Ruark Sampled by: Jerome Chen						Turnaround Request (in working days) (Check One) ☐ Same Day ☒ 1 Day ☐ 2 Days ☐ 3 Days ☐ Standard (7 Days) (TPH analysis 5 Days)						Laboratory Number: 10-063											
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals/ MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664A	Total Lead	% Moisture	
21	EX-4.0-E5-100513	10/05/13	1446	S	1				X										(X)			X	X
22	EX-8.0-E5-100513		1452		↓														X			X	X
23	EX-STOCK PILE-100513		1509		↓														X				
				(JC)																			
Signature		Company		Date		Time		Comments/Special Instructions															
		Farellon Consulting		10/07/13		0705		Will call for analysis DB															
Relinquished																							
Received																							
Relinquished																							
Received																							
Relinquished																							
Received																							
Reviewed/Date		Reviewed/Date		Reviewed/Date		Reviewed/Date		Chromatograms with final report ☐															

3RD AND LANDER
3RD AND LANDER

SEATTLE, WA
014755 - 0134
Clearcreek Contractors
10226 State Ave., Marysville
Everett, WA 98134
Contract: LW-13279

SITE	TICKET	GRID
01	651851	
SCALE OPERATOR		
KB00068 KIM B		
DATE IN	TIME IN	
19 July 2013	10:21 am	
DATE OUT	TIME OUT	
19 July 2013	11:10 am	
VEHICLE	ROLL OFF	
SOIL		
REFERENCE	ORIGIN	
	MARYSVILLE/SNOH	

00 Gross Weight 102,280.00 lb
Tare Weight 39,840.00 lb
Net Weight 62,440.00 lb 31.22 TN

43

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
31.22	TN	SW-CONT SOIL W/FUEL				
Manifest:						

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SAFETY MEMOS:

- Hard hats MUST be worn.
- High Visibility vests MUST be worn.
- Passengers MUST remain in vehicle at all times.

SIGNATURE



3RD AND LANDER
3RD AND LANDER

SEATTLE, WA
014755 - 0134
Clearcreek Contractors
10226 State Ave., Marysville
Everett, WA
Contract: LW-13279

213048

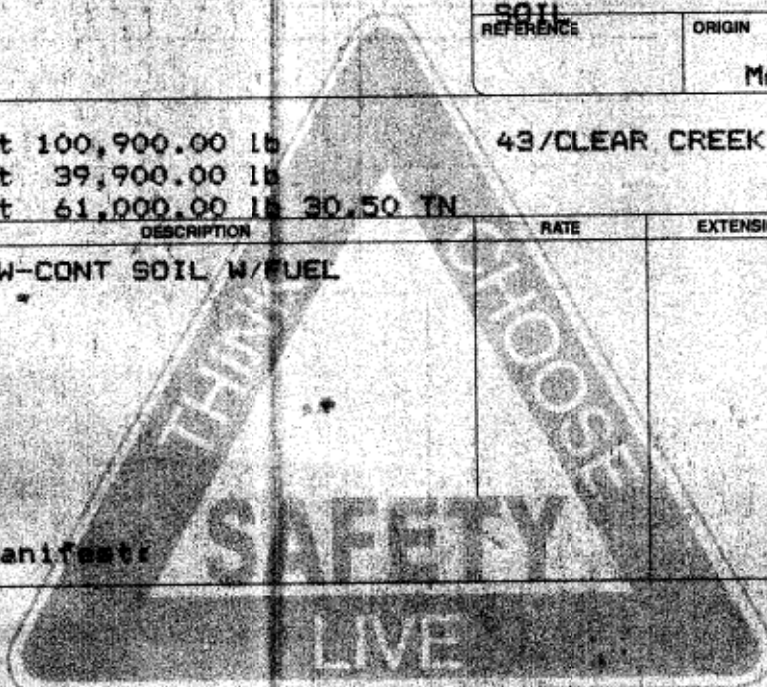
SITE	TICKET	GRID
01	653681	
SCALE OPERATOR		
DL00026 DRINDA L		
DATE IN	TIME IN	
25 July 2013	6:49 am	
DATE OUT	TIME OUT	
25 July 2013	7:08 am	
VEHICLE	ROLL OFF	
SOIL		
REFERENCE	ORIGIN	
	MARYSVILLE/SNOH	

00 Gross Weight 100,900.00 lb
Tare Weight 39,900.00 lb
Net Weight 61,000.00 lb 30.50 TN

43/CLEAR CREEK

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
30.50	TN	SW-CONT SOIL W/FUEL				

Manifest



NET AMOUNT
TENDERED
CHANGE
CHECK NO.

SAFETY MEMOS:

- Hard hats MUST be worn.
- High Visibility vests MUST be worn.
- Passengers MUST remain in vehicle at all times.

SIGNATURE

CAS

3RD AND LANDER
3RD AND LANDER

SEATTLE, WA
014755 - 0134
Clearcreek Contractors
10226 State Ave., Marysville
Everett, WA 98134
Contract: LW-13279

SITE 01	TICKET 651852	GRID
SCALE OPERATOR KB000068 KIM B		
DATE IN 19 July 2013		TIME IN 10:44 am
DATE OUT 19 July 2013		TIME OUT 11:12 am
VEHICLE SOIL		ROLL OFF
REFERENCE	ORIGIN MARYSVILLE/SNOH	

00 Gross Weight 52,720.00 lb
Tare Weight 21,440.00 lb
Net Weight 31,280.00 lb 15.64 TN

21 WOLF

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
15.64	TN	SW-CONT SOIL WARE				

Manifest:

SAFETY MEMOS:

Hard hats MUST be worn.
High Visibility vests MUST be worn.
Passengers MUST remain in vehicle at all times.

SIGNATURE

NEW BOB

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

SITE REGIONAL DISPOSAL INTERMODAL 3rd and lander Seattle, WA --	SITE 01 TICKET # 902296 CELL WEIGHMASTER IN - Kim L. OUT - James J. DATE/TIME IN 12-12-2013 10:11 am DATE/TIME OUT 12-12-2013 10:36 am VEHICLE SOIL CONTAINER REFERENCE 43/CLEARCREEK INVOICE BILL OF LADING	
CUSTOMER 014755 Clearcreek Contractors 3203 15th Street Everett, WA 98201 LW-13483		

SCALE IN	GROSS WEIGHT	103,840	NET TONS	31.65	
SCALE OUT	TARE WEIGHT	40,540	NET WEIGHT	63,300	INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	TRACKING QTY				
31.65	TN	SW-CONT SOIL				
		MARYSVILLE/SNOH				

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer. RS-F042UPR (07/12)	SIGNATURE _____	NET AMOUNT TENDERED CHANGE CHECK#
--	-----------------	--

SITE	REGIONAL DISPOSAL INTERMODAL 3rd and lander Seattle, WA	--
CUSTOMER	014755 Clearcreek Contractors 3203 15th Street Everett, WA 98201 LW-13483	

SITE	01	TICKET #	902347	CELL	
WEIGHMASTER IN - Leslie U. OUT - Drinda L.					
DATE/TIME IN			12-12-2013 1:33 pm	DATE/TIME OUT 12-12-2013 2:07 pm	
VEHICLE			CONTAINER		
REFERENCE			43 INVOICE		
BILL OF LADING					

SCALE IN	GROSS WEIGHT	120,120	NET TONS	39.89	
SCALE OUT	TARE WEIGHT	40,340	NET WEIGHT	79,780	INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	TRACKING QTY				
39.89	TN	SW-CONT SOIL				
		MARYSVILLE/SNOH				

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (07/12)

SIGNATURE _____

NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE 01		TICKET # 902299		CELL	
REGIONAL DISPOSAL INTERMODAL 3rd and lander Seattle, WA --					
CUSTOMER 014755 Clearcreek Contractors 3203 15th Street Everett, WA 98201 LW-13483					
WEIGHMASTER IN - JAMIE B. OUT - James J.					
DATE/TIME IN 12-12-2013 10:25 am				DATE/TIME OUT 12-12-2013 10:42 am	
VEHICLE SOIL				CONTAINER	
REFERENCE 44 CLEAR CREEK				INVOICE	
BILL OF LADING					

SCALE IN	GROSS WEIGHT	104,060	NET TONS	32.00	
SCALE OUT	TARE WEIGHT	40,060	NET WEIGHT	64,000	INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	TRACKING QTY				
32.00	TN	SW-CONT SOIL				
		MARYSVILLE/SNOH				

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (07/12)

SIGNATURE _____

NET AMOUNT
TENDERED
CHANGE
CHECK#

APPENDIX E
TABLE 749-1 SIMPLIFIED TERRESTRIAL ECOLOGICAL
EVALUATION

CLEANUP ACTION SUMMARY REPORT

Ed's Transmissions
10226 State Avenue
Marysville, Washington

Farallon PN: 1160-001

Table 749-1
Ed's Transmission Site
Simplified Terrestrial Ecological Evaluation-Exposure Analysis Procedure

Estimate the area of contiguous (connected) <u>undeveloped land</u> on the site or within 500 feet of any area of the site to the nearest 1/2 acre (1/4 acre if the area is less than 0.5 acre).		
1) From the table below, find the number of points corresponding to the area and enter this number in the field to the right.		10
	<u>Area (acres)</u> 0.25 or less 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 or more	<u>Points</u> 4 5 6 7 8 9 10 11 12
2) Is this an <u>industrial</u> or <u>commercial</u> property? If yes, enter a score of 3. If no, enter a score of 1		3
3) ^a Enter a score in the box to the right for the habitat quality of the site, using the following rating system ^b . High=1, Intermediate=2, Low=3		3
4) Is the undeveloped land likely to attract wildlife? If yes, enter a score of 1 in the box to the right. If no, enter a score of 2. ^c		1
5) Are there any of the following soil contaminants present: Chlorinated dioxins/furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, pentachlorobenzene? If yes, enter a score of 1 in the box to the right. If no, enter a score of 4.		4
6) Add the numbers in the boxes on lines 2-5 and enter this number in the box to the right. If this number is larger than the number in the box on line 1, the simplified evaluation may be ended.		11

Notes for Table 749-1

^a It is expected that this habitat evaluation will be undertaken by an experienced field biologist. If this is not the case, enter a conservative score of (1) for questions 3 and 4.

^b **Habitat rating system.** Rate the quality of the habitat as high, intermediate or low based on your professional judgment as a field biologist. The following are suggested factors to consider in making this evaluation:

Low: Early successional vegetative stands; vegetation predominantly noxious, nonnative, exotic plant species or weeds. Areas severely disturbed by human activity, including intensively cultivated croplands. Areas isolated from other habitat used by wildlife.

High: Area is ecologically significant for one or more of the following reasons: Late-[successional](#) native plant communities present; relatively high species diversity; used by an uncommon or rare species; [priority habitat](#) (as defined by the Washington Department of fish and Wildlife); part of a larger area of habitat where size or fragmentation may be important for the retention of some species.

Intermediate: Area does not rate as either high or low.

^c Indicate "yes" if the area attracts wildlife or is likely to do so. Examples: Birds frequently visit the area to feed; evidence of high use b mammals (tracks, scat, etc.); habitat "island" in an industrial area; unusual features of an area that make it important for feeding animals; heavy use during seasonal migrations.

[\[Area Calculation Aid\]](#) [\[Aerial Photo with Area Designations\]](#) [\[TEE Table 749-1\]](#) [\[Index of Tables\]](#)

[\[Exclusions Main\]](#) [\[TEE Definitions\]](#) [\[Simplified or Site-Specific?\]](#) [\[Simplified Ecological Evaluation\]](#) [\[Site-Specific Ecological Evaluation\]](#) [\[WAC 173-340-7493\]](#)

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