



Mr. Steve Teel  
Washington State Department of Ecology  
Southwest Regional Office – Toxics Cleanup Program  
P.O. Box 47775  
Olympia, Washington 98504-7775

*Subject:*       **Soil Sampling Assessment Summary Report  
Cowlitz BP / Cowlitz Food and Fuel /  
Former Texaco Service Station No. 211556  
101 Mulford Road  
Toledo, Washington**

Dear Mr. Teel:

Leidos Engineering, LLC (Leidos; formerly SAIC Energy, Environment & Infrastructure, LLC [SAIC]), on behalf of Chevron Environmental Management Company (CEMC), prepared this report to summarize the results of soil sampling activities performed in November 2013 at the above-referenced site (the Site) in Toledo, Washington.

The objective of this assessment was to evaluate current petroleum hydrocarbon concentrations in soil on the active service station portion of the Site and at the base of the two interim remedial action (IRA) excavations performed in 2010.

The scope of work and procedures employed to complete these activities were generally consistent with those described in SAIC's September 2013 work plan<sup>1</sup>, which was conditionally approved by Ecology in a letter dated October 2, 2013. Where deviations exist in the work scope or procedures employed, a description and justification for the changes are provided in this report.

### **SOIL BORING AND SAMPLING ACTIVITIES**

From November 4 to November 8, 2013, Leidos directed and observed completion of the following 13 soil borings at the Site (Figures 1 and 2):

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1. SAIC, 2013. *Soil Sampling and Natural Attenuation Assessment Work Plan – Final, Cowlitz BP / Cowlitz Food and Fuel / Former Texaco Service Station No. 211556, 101 Mulford Road, Toledo, Washington.* September 25.

- Soil borings SB-9, SB-10, and SB-14 through SB-21 were completed on the southern portion of the active service station property, immediately downgradient of the underground storage tank (UST) basin and pump island area;
- Soil borings SB-12 and SB-13 were completed within the boundaries of 2010 IRA Excavation #1, to the east of the active service station; and
- Soil boring SB-11 was completed within the boundaries of 2010 IRA Excavation #2 on the inactive service station property.

As described in the Work Plan, CEMC policy requires that each boring be cleared to a depth of at least 8 feet below ground surface (bgs) using a hand auger, or air knife excavation technology, to avoid damage to utilities or other subsurface infrastructure.

For borings completed in the vicinity of the UST basin and pump islands, Leidos geologists first attempted to advance and sample each boring from the ground surface to 8 feet bgs using a stainless steel hand auger, without the assistance of an air knife. This was done to limit the potential loss of volatile petroleum constituents in soil samples that could be caused by the compressed air wand and suction hose of the air knife. However, this was generally not possible due the consistent presence of large cobbles in the subsurface throughout this area. Therefore, the initial 8 feet of each boring were typically advanced using the assistance of an air knife, while soil samples were collected between the air knife zones at 2-foot intervals using a hand auger.

For soil borings SB-11, SB-12, and SB-13, which were completed within the boundaries of the 2010 IRA excavations, no soil samples were collected in the air knife interval.

Following clearance of each boring to a depth of at least 8 feet, a limited-access sonic rig was used to complete drilling and sample collection at each boring. Air knife and sonic drilling activities were performed by Cascade Drilling L.P. of Woodinville, Washington.

During the drilling activities, a Leidos geologist was present to log soil lithology and collect soil samples for field-screening and laboratory analysis. Soil samples were classified in accordance with the Unified Soil Classification System. In addition, each sample was field screened for the presence of petroleum hydrocarbons by visual and olfactory observations. Sheen tests were conducted, and headspace vapor measurements were recorded using a flame-ionization detector and a photo-ionization detector.

Soil lithology encountered was consistent with previous investigations at the Site. The Site is generally underlain by gravelly alluvial deposits with cobbles and varying percentages of sand and silt. The gravelly alluvial deposits are interbedded with layers of sand and silt. A sandy silt layer, approximately 3 to 7 feet thick, is present just beneath the asphalt and overlies the alluvial deposits in the vicinity south-southwest of the southern-most pump island. The upper alluvial lithology varies in thickness from approximately 12 to 17 feet. A thick, continuous silt/clay layer of undetermined thickness is present beneath the gravelly alluvial deposits, forming the base of the shallow aquifer. Geologic logs for each boring are included in Attachment A.

Upon completion of sampling, each soil boring was backfilled with bentonite chips to a depth of approximately 1 foot bgs. The upper foot of the boring was then filled to the ground surface with black, ready-mix cement. Four borings (SB-18 through SB-21)

located in Lewis County rights of way (ROWs) for Mulford Road and Cowlitz Ridge Road were completed with temporary, 1-foot diameter, cold-asphalt patches. These patches were replaced with permanent, hot-asphalt patches on November 20, 2013, in accordance with the requirements of a Lewis County ROW permit obtained for the project.

### **LABORATORY ANALYSIS OF SOIL SAMPLES**

At least two soil samples from each boring were collected and submitted for laboratory analysis. These samples generally included one from the capillary fringe and a second to confirm the maximum vertical extent of contamination. Additional soil samples were also submitted for sample intervals exhibiting indications of significant petroleum-range impact, based on the results of field screening analyses. Selected samples were submitted to Eurofins Lancaster Laboratories, Inc. for the following analyses:

- Gasoline-range organics (GRO) by ECY 97-602 NWTPH-Gx;
- Diesel-range organics (DRO) and heavy oils (HRO) by ECY 97-602 NWTPH-Dx;
- DRO and HRO by ECY 97-602 NWTPH-Dx with silica-gel cleanup;
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by SW-846 8021B;
- Carcinogenic polycyclic aromatic hydrocarbons (cPAHs) by SW-846 8270C with selective ion monitoring; and
- Total lead by SW-846 6010B.

### **SUMMARY AND EVALUATION OF SOIL SAMPLING RESULTS**

A summary of all soil sampling laboratory results is provided in Tables 1 and 2, and a complete laboratory analytical report is included as Attachment B. The following sections provide a brief summary and evaluation of soil sampling results for each of the three primary areas assessed.

#### **UST BASIN AND PUMP ISLAND AREA**

In the area south of the UST basin and pump islands (Figure 2), petroleum-range contamination exceeding proposed Site cleanup levels<sup>2</sup> was detected in nine of the 10 borings completed (no petroleum-range contamination was detected in soil boring SB-19). The following contaminants of concern (COCs) were detected:

- GRO in nine soil borings (SB-9, SB-10, SB-14 through SB-18, SB-20, and SB-21) at concentrations up to 5,900 milligrams per kilogram (mg/kg);
- Benzene in eight soil borings (SB-9, SB-10, SB-14 through SB-18, and SB-20) at concentrations up to 1.7 mg/kg;
- Toluene in one soil boring (SB-14) at a concentration of 8.2 mg/kg;

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2. Cleanup levels for the Site as proposed in the October 31, 2012 Draft Feasibility Study Report prepared by SAIC. Proposed Site cleanup levels are also shown in Tables 1 and 2 of this report.

- Ethylbenzene in three soil borings (SB-10, SB-15, and SB-17) at concentrations up to 10 mg/kg; and
- Total xylenes in three soil borings (SB-10, SB-14, and SB-17) at concentrations up to 65 mg/kg.

GRO, DRO, and benzene soil sampling results for borings in this area are also presented graphically in updated geologic cross-sections included on Figures 3 and 5. For comparison, geologic cross-sections based on pre-2005 soil sampling results are also included on Figures 4 and 6.

Soil sampling results from this area indicate that GRO and benzene are the primary COCs in this area of the Site and that contamination largely occurs within the zone of seasonal groundwater fluctuation. However, these substances were also detected above cleanup levels in near-surface (approximately 2 feet bgs) soil samples collected at three of the boring locations (SB-15, SB-16, and SB-17) in this area (Figure 5). These near-surface detections of petroleum-range contamination are inconsistent with a UST release, and are instead believed to be indicators of a shallow petroleum release mechanism at the Site.

### 2010 IRA EXCAVATION-1

Two soil borings (SB-12 and SB-13) were completed within the boundaries of 2010 IRA Excavation-1 (Figure 2). As requested by Ecology, the locations for these borings were selected to be at the approximate locations of IRA excavation samples EX1-30-9 and EX1-55-9.5, respectively.

Field screening and laboratory results from borings SB-12 and SB-13 indicate that petroleum-range contamination remains in this area of the Site at concentrations exceeding proposed Site cleanup levels. Contamination appears to be present within a relatively thin smear zone at the groundwater interface. The following table provides a summary and comparison of the 2010 and 2013 soil sampling results from these two locations.

Sample ID	Sample Date	GRO (mg/kg)	DRO (mg/kg)	Benzene (mg/kg)
EX1-30-9	10/7/2010	<b>3,100</b>	<b>4,500</b>	< 0.02
SB-12-9.5	11/6/2013	1.5	< 3.3	< 0.0055
SB-12-10.5	11/6/2013	<b>1,600</b>	<b>2,500</b>	<b>&lt; 0.19</b>
SB-12-12	11/6/2013	2.6	< 3.3	< 0.0046
SB-12-13.5	11/6/2013	< 1.0	< 3.3	< 0.0051
EX1-55-9.5	10/11/2010	<b>6,600</b>	<b>1,100</b>	< 0.02
SB-13-10.5	11/7/2013	<b>150</b>	82	<b>0.085</b>
SB-13-12.5	11/7/2013	< 1.0	< 3.4	< 0.0052

Note: Bold values indicate laboratory results confirmed or potentially exceeding proposed Site cleanup levels.

## **2010 IRA EXCAVATION-2**

One soil boring (SB-11) was completed in the area of 2010 IRA Excavation-2 (Figure 1). This boring was completed in the approximate location of IRA excavation sample EX2-14-9.5. Two soil samples were collected from boring SB-11. The first sample (SB-11-10) was collected at 10 feet bgs, immediately below the quarry spall excavation backfill (i.e., at the base of the excavation at this location), and the second sample was collected at 12.5 feet bgs. The boring was completed to a final depth of 20 feet bgs.

Field screening and laboratory results of these samples detected no evidence of petroleum-range contamination above proposed Site cleanup levels.

### **SUMMARY AND CONCLUSIONS**

Results of the 2013 soil sampling assessment at the Site indicate that petroleum-range contamination (primarily GRO and benzene) continues to be present on the active service station property, but that cleanup objectives appear to have been achieved on the inactive station portion of the Site.

In the area immediately downgradient (south) of the UST basin and pump islands, GRO and benzene contamination in soil continue to be widespread. However, comparison of soil sampling data from this assessment to pre-2005 data (Figures 3 and 5) suggests that the lateral and vertical extent of impacted soil may be decreasing in response to ongoing natural attenuation at the Site. The current data set indicates no detections of COCs exceeding proposed Site cleanup levels at a depth greater than approximately 10.5 feet bgs. In comparison, results of soil sampling performed in December 2004 indicate that GRO and benzene contamination exceeding cleanup levels was previously detected at depths of up to 15 feet bgs.

Although the current data set indicates that maximum vertical depth of contamination has decreased, it also suggests that shallow soil contamination (approximately 2 feet bgs) is more extensive than previously identified, or has increased since the December 2004 sampling event. In this area, GRO was detected in samples from 2 feet bgs in three soil borings (SB-15, SB-16, and SB-17), at concentrations up to 2,800 mg/kg. The confirmed presence of shallow soil contamination at these locations is not consistent with the historic UST release that was previously determined to have occurred at the Site. Instead, based on the shallow depth of these samples, and their lateral distance from the pump islands, it is likely that this contamination is the result of surface releases that have occurred, and may continue to occur, in association with the operation of an active service station at the Site. Additional support for on-going surface releases at the Site is provided by observations, by Leidos personnel, of petroleum sheens in rain water sheet flow draining from the station during the November 2013 soil sampling activities.

In the area of IRA Excavation-1, on the active service station property, sampling results for soil borings SB-12 and SB-13 indicate that petroleum-range contamination (including DRO) continues to be present within a relatively thin smear zone at the groundwater interface. Results for sample SB-12-10.5 indicate that GRO and DRO concentrations in this area remain relatively high; however, groundwater data for monitoring well MW-110, MW-112, MW-119, and MW-103 indicate that groundwater downgradient of

this area does not contain petroleum-range contamination exceeding proposed Site cleanup levels (see Third Quarter 2013 Groundwater Monitoring Report, prepared by Leidos, dated January 31, 2014). Therefore, soil contamination remaining in this area is believed to be localized and stable.

In the area of IRA Excavation-2, on the inactive service station property, sampling results for boring SB-11 were non-detect or below Site cleanup levels for all COCs. Based on these data, and the results of groundwater monitoring performed at monitoring well MW-120 since November 2011, Leidos believes that the limited GRO contamination remaining in place at the conclusion of the 2010 IRA excavation was addressed by the addition of Oxygen Release Compound<sup>®</sup> to the base of the excavation, and/or naturally occurring attenuation processes. Therefore, we believe that cleanup objectives for this portion of the Site have been completed.

### CLOSING

Chevron currently anticipates performing groundwater monitoring for the evaluation of natural attenuation at the Site through May 2014 (four quarterly events). Upon evaluation of those data, our project team would like to meet with you again to discuss the results of these evaluations, and develop an agreed upon path forward for satisfaction of the Agreed Order for the Site.

If you have any questions or comments regarding this report, please contact me at (425) 482-3323 or by email at [shropshirer@leidos.com](mailto:shropshirer@leidos.com).

Sincerely,

**Leidos Engineering, LLC**



Russell S. Shropshire, PE  
Senior Project Manager

#### Enclosures:

- Figure 1 – Site Map and Soil Boring Locations
- Figure 2 – Soil Boring Locations – Active Station Property
- Figure 3 – 2013 Soil Sampling Results – Cross-Section A-A'
- Figure 4 – Pre-2005 Soil Sampling Results – Cross-Section A-A'
- Figure 5 – 2013 Soil Sampling Results – Cross-Section B-B'
- Figure 6 – Pre-2005 Soil Sampling Results – Cross-Section B-B'
- Table 1 – Summary of Soil Analytical Data – TPH, BTEX, Total Lead
- Table 2 – Summary of Soil Analytical Data – cPAHs
- Attachment A – Boring Logs
- Attachment B – Laboratory Analysis Report

cc: Mr. Mark Horne – CEMC  
Mr. Charles Vineyard  
Mr. John Houlihan – Houlihan Law  
Project File

## **REPORT LIMITATIONS**

This technical document was prepared on behalf of CEMC and is intended for its sole use and for use by the local, state or federal regulatory agency that the technical document was sent to by Leidos. Any other person or entity obtaining, using, or relying on this technical document hereby acknowledges that they do so at their own risk, and Leidos shall have no responsibility or liability for the consequences thereof.

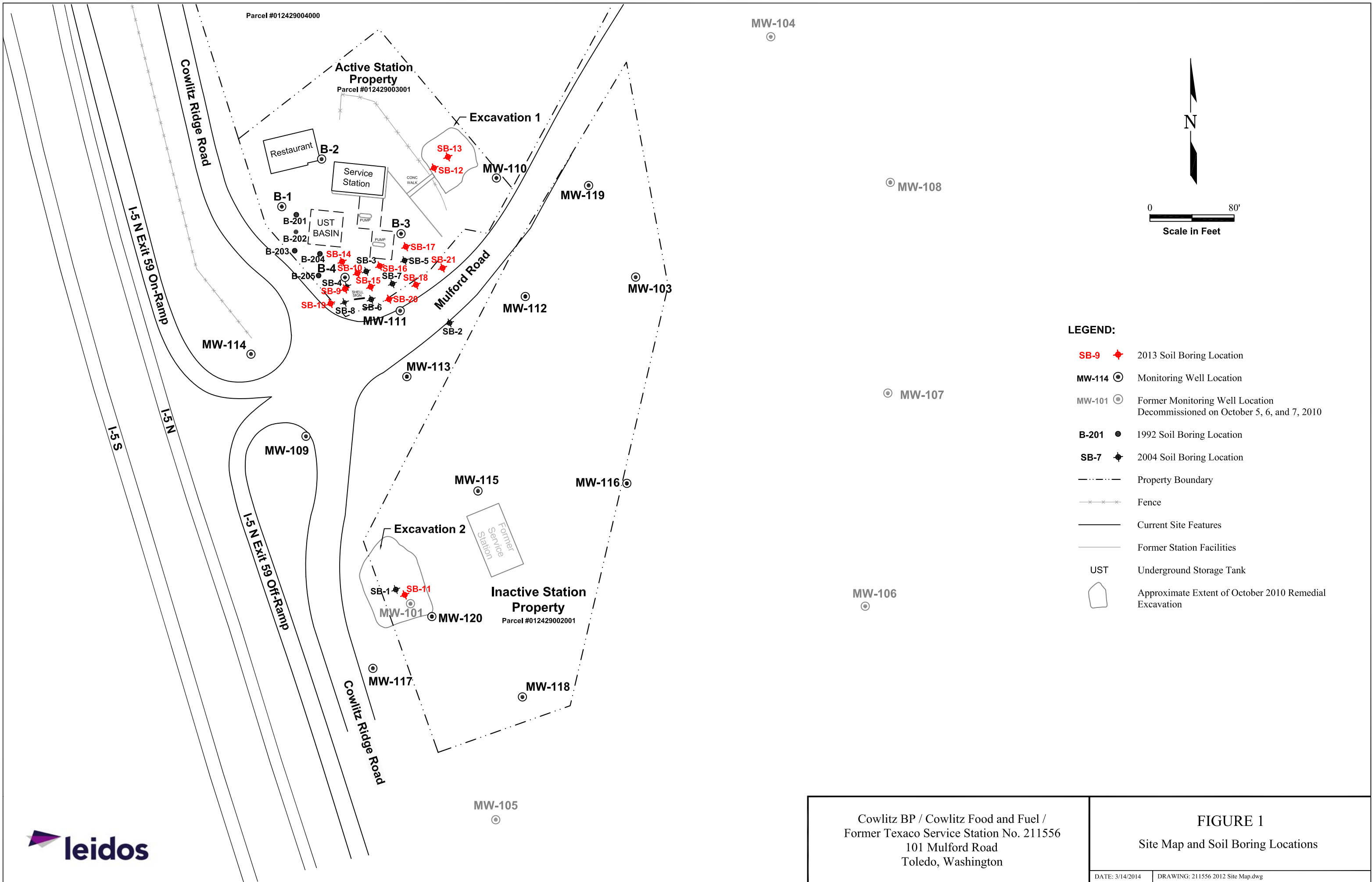
Site history and background information provided in this technical document are based on sources that may include interviews with environmental regulatory agencies and property management personnel and a review of acquired environmental regulatory agency documents and property information obtained from CEMC and others. Leidos has not made, nor has it been asked to make, any independent investigation concerning the accuracy, reliability, or completeness of such information beyond that described in this technical document.

Recognizing reasonable limits of time and cost, this technical document cannot wholly eliminate uncertainty regarding the vertical and lateral extent of impacted environmental media.

Opinions and recommendations presented in this technical document apply only to site conditions and features as they existed at the time of Leidos site visits or site work and cannot be applied to conditions and features of which Leidos is unaware and has not had the opportunity to evaluate.

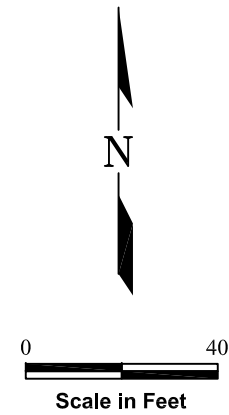
All sources of information on which Leidos has relied in making its conclusions (including direct field observations) are identified by reference in this technical document or in appendices attached to this technical document. Any information not listed by reference or in appendices has not been evaluated or relied upon by Leidos in the context of this technical document. The conclusions, therefore, represent our professional opinion based on the identified sources of information.





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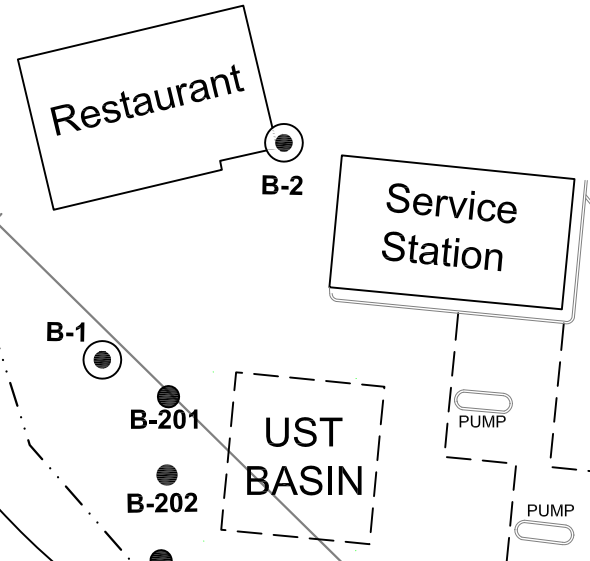
Active Station  
Property  
Parcel #012429003001



**LEGEND:**

- ◆ SB-9 2013 Soil Boring Location
- MW-114 Monitoring Well Location
- B-201 1992 Soil Boring Location
- ◆ SB-7 2004 Soil Boring Location
- - - - - Property Boundary
- x - x - Fence
- Current Site Features
- UST Underground Storage Tank
- Approximate Extent of October 2010 Interim Remedial Action Excavation
- A — A' Approximate Geologic Cross Section Transect Line

I-5 N Exit 56 On-Ramp



Mulford Road

MW-114

MW-111

MW-112

MW-113











Cowlitz BP / Cowlitz Food and Fuel /  
Former Texaco Service Station No. 211556  
101 Mulford Road  
Toledo, Washington

**FIGURE 2**  
Soil Boring Locations - Active Station  
Property





DATE: 3/14/2014    DRAWING: 211556 2012 Site Map.dwg

**LEGEND:**

-  Boring
-  Screened interval
-  Estimated extent of soil contamination exceeding Site cleanup levels, based on November 2013 soil sampling results (dashed where inferred)
-  Estimated extent of soil contamination exceeding Site cleanup levels, based on pre-2005 soil sampling results (see Figure 4 for additional details)
-  Highest recorded groundwater elevation
-  Lowest recorded groundwater elevation
-  Soil analytical sample location
- 3,300 Gasoline-range hydrocarbon concentration in milligrams per kilogram (mg/kg)
- 160 Diesel-range hydrocarbon concentration in mg/kg
- 0.38 Benzene concentration in mg/kg
- ND No analytes were detected at or above laboratory detection limits
- 0.27\* Analyte not detected at or above indicated laboratory detection limit; however, the detection limit exceeded the Site cleanup level
- 0.38 Bold indicates analyte concentration exceeding Site cleanup level
-  Contact line between soil types

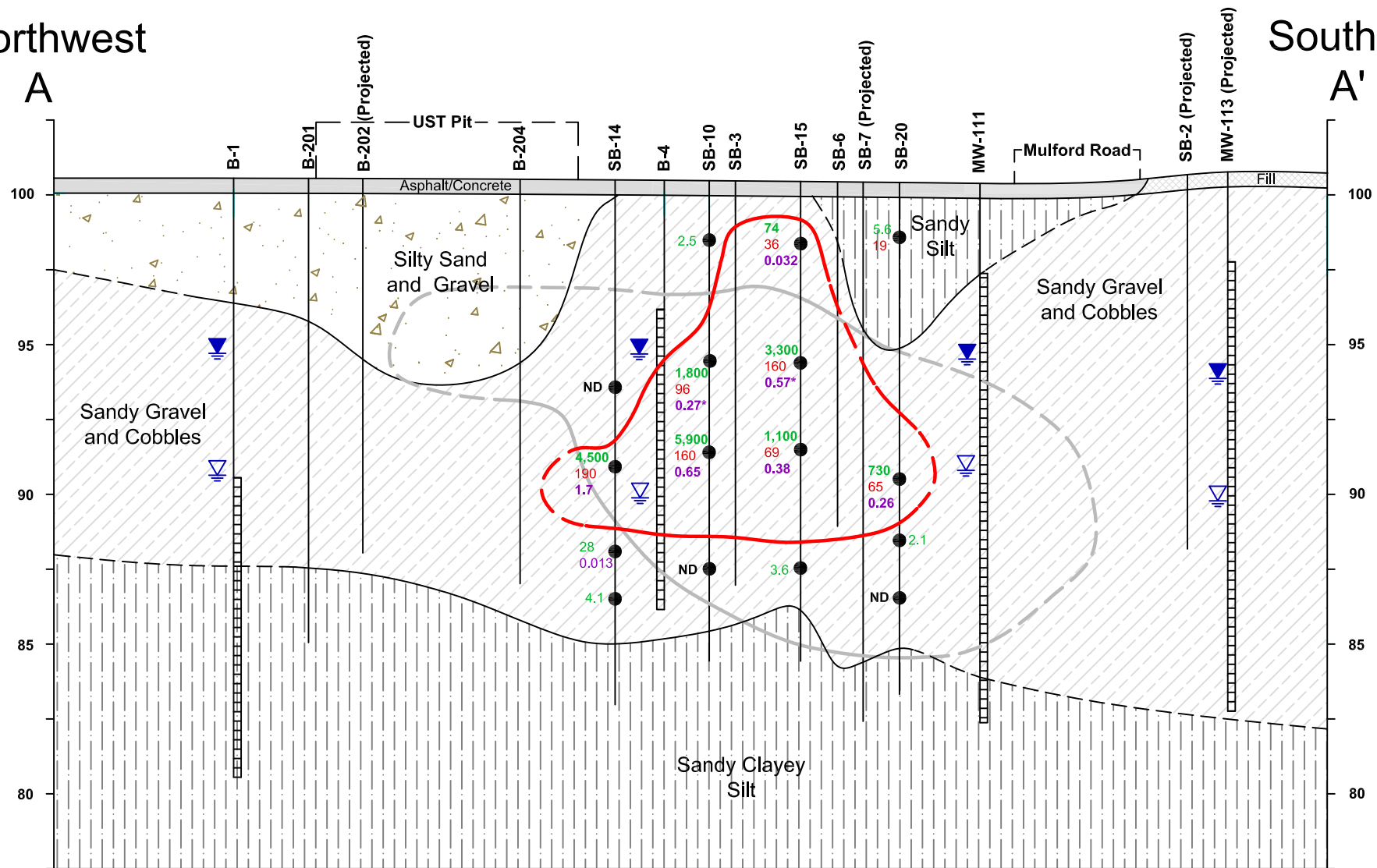
Note: Analyte concentration not included if less than laboratory detection limits.

**SOIL/ROCK CLASSIFICATION LEGEND:**

-  Concrete or Asphalt
-  Brown, fine to coarse Sand and Gravel with some cobbles and silt
-  Brown to gray, medium to coarse sandy Gravel and Cobbles
-  Brown to greenish gray, fine sandy, clayey Silt

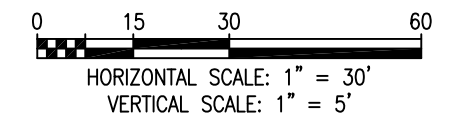
Northwest

Elevation (Relative Feet)



Southeast








Elevation (Relative Feet)



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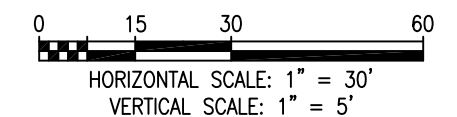
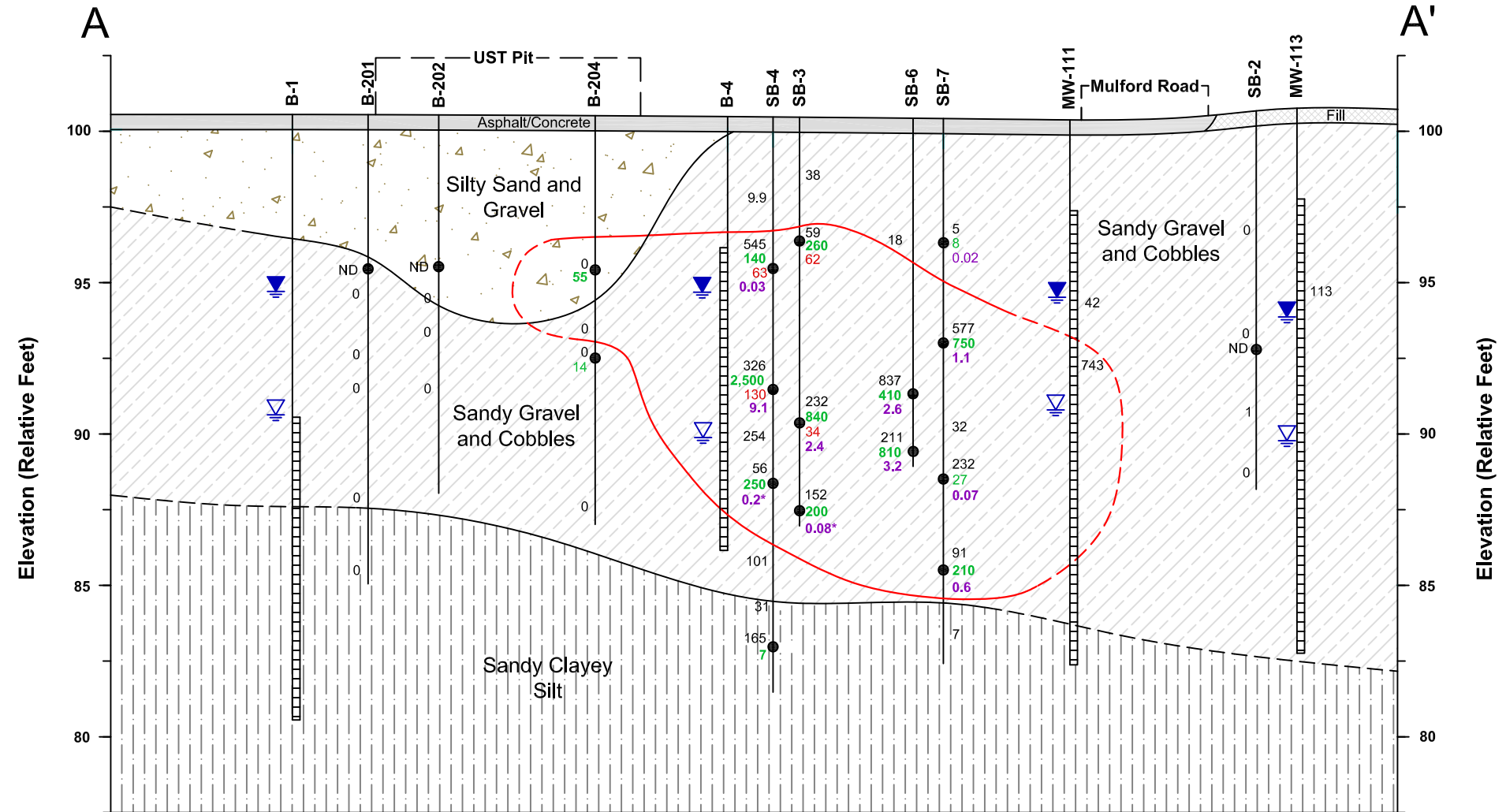
**FIGURE 3**  
2013 Soil Sampling Results -  
Cross-Section A-A'

**LEGEND:**

-  Boring
-  Screened interval
-  Estimated extent of soil contamination exceeding Site cleanup levels, based on pre-2005 soil sampling results (dashed where inferred)
-  Highest recorded groundwater elevation
-  Lowest recorded groundwater elevation
-  Soil analytical sample location
- 28 Gasoline-range hydrocarbon concentration in milligrams per kilogram (mg/kg)
- 10 Diesel-range hydrocarbon concentration in mg/kg
- 0.001 Benzene concentration in mg/kg
- ND No analytes were detected at or above laboratory detection limits
- 0.05\* Analyte not detected at or above indicated laboratory detection limit; detection limit exceeded the Site cleanup level
- 0.13 Bold indicates analyte concentration exceeding Site cleanup level
- 140 Photoionization detector (PID) reading in parts per million (ppm)
-  Contact line between soil types

Northwest









Southeast






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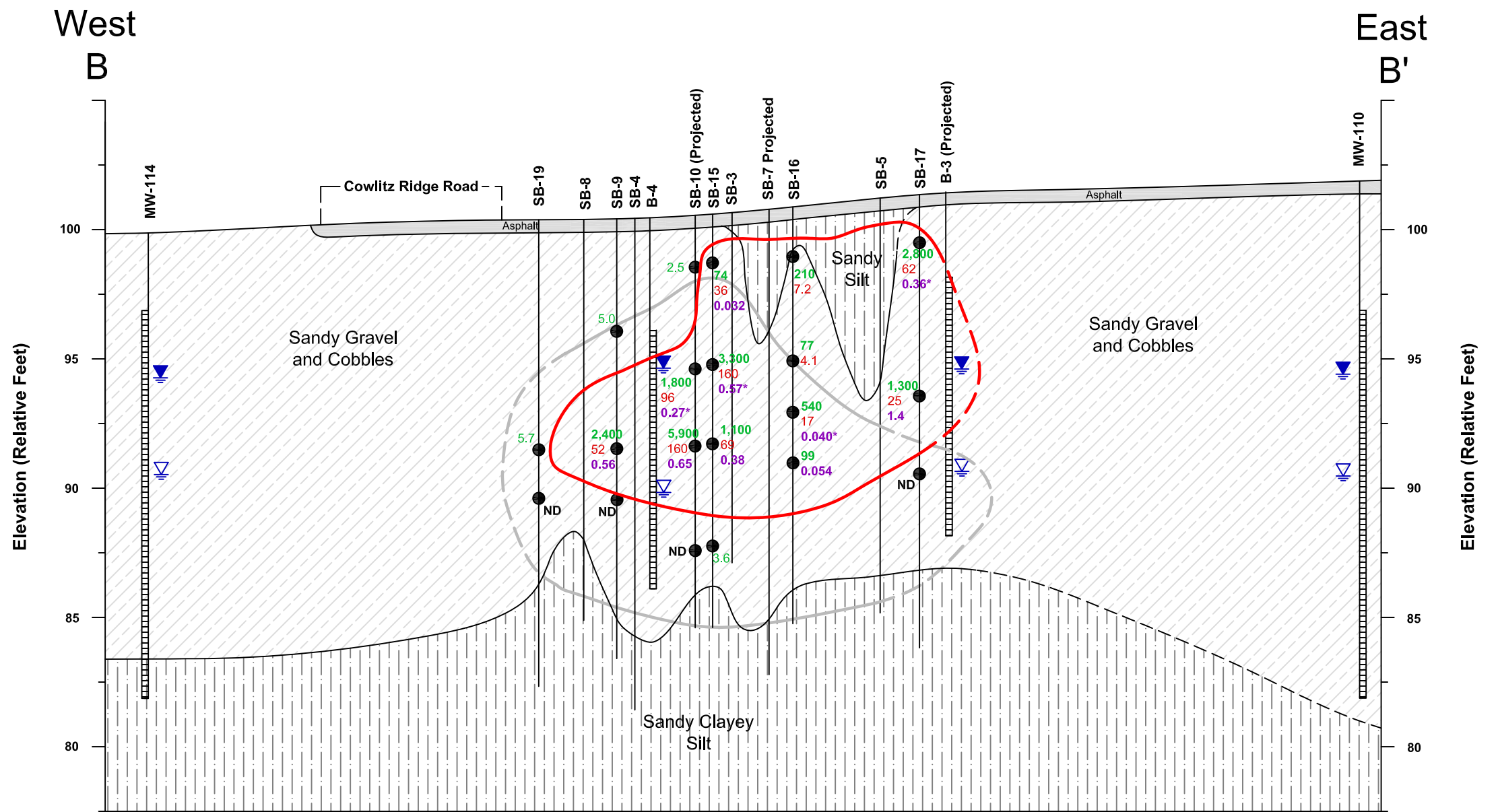
**FIGURE 4**  
Pre-2005 Soil Sampling Results -  
Cross-Section A-A'

**LEGEND:**

-  Boring
-  Screened interval
-  Estimated extent of soil contamination exceeding Site cleanup levels, based on November 2013 soil sampling results (dashed where inferred)
-  Estimated extent of soil contamination exceeding Site cleanup levels, based on pre-2005 soil sampling results (see Figure 6 for additional details)
-  Highest recorded groundwater elevation
-  Lowest recorded groundwater elevation
-  Soil analytical sample location
- 3,300 Gasoline-range hydrocarbon concentration in milligrams per kilogram (mg/kg)
- 160 Diesel-range hydrocarbon concentration in mg/kg
- 0.038 Benzene concentration in mg/kg
- ND No analytes were detected at or above laboratory detection limits
- 0.27\* Analyte not detected at or above indicated laboratory detection limit; however, the detection limit exceeded the Site cleanup level
- 0.38 Bold indicates analyte concentration exceeding Site cleanup level
-  Contact line between soil types

**SOIL/ROCK CLASSIFICATION LEGEND:**








-  Concrete or Asphalt
-  Brown to gray, medium to coarse sandy Gravel and Cobbles
-  Brown to greenish gray, fine sandy, clayey Silt






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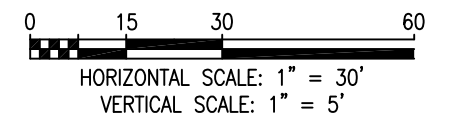
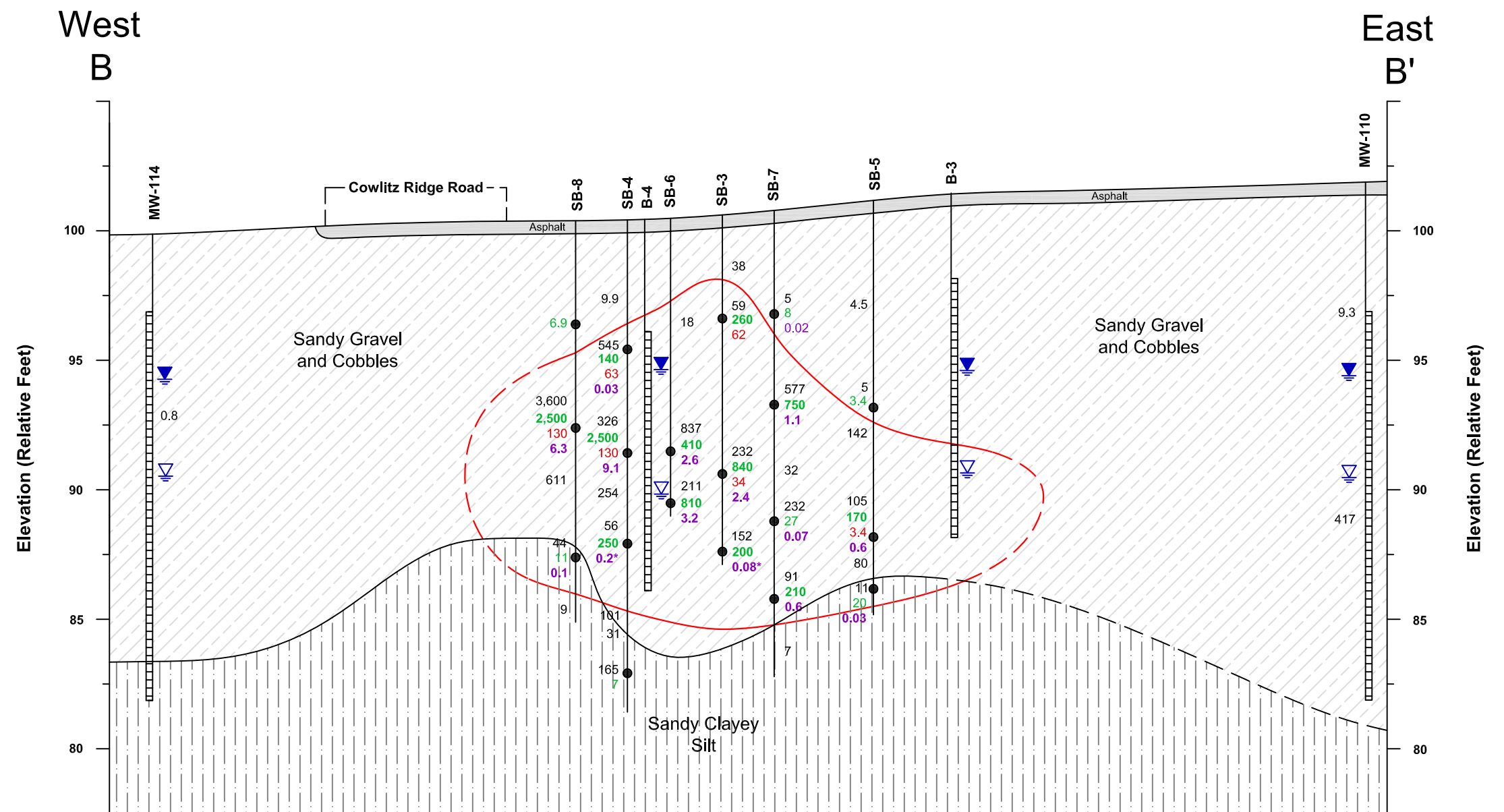
**FIGURE 5**  
2013 Soil Sampling Results -  
Cross-Section B-B'

**LEGEND:**

-  Boring
-  Screened interval
-  Estimated extent of soil contamination exceeding Site cleanup levels, based on pre-2005 soil sampling results (dashed where inferred)
-  Highest recorded groundwater elevation
-  Lowest recorded groundwater elevation
-  Soil analytical sample location
- 28 Gasoline-range hydrocarbon concentration in milligrams per kilogram (mg/kg)
- 10 Diesel-range hydrocarbon concentration in mg/kg
- 0.001 Benzene concentration in mg/kg
- ND No analytes were detected at or above laboratory detection limits
- 0.05\* Analyte not detected at or above indicated laboratory detection limit; detection limit exceeded the Site cleanup level
- 0.13 Bold indicates analyte concentration exceeding Site cleanup level
- 140 Photoionization detector (PID) reading in parts per million (ppm)
-  Contact line between soil types

**SOIL/ROCK CLASSIFICATION LEGEND:**

-  Concrete or Asphalt
-  Brown to gray, medium to coarse sandy Gravel and Cobbles
-  Brown to greenish gray, fine sandy, clayey SILT



Cowlitz BP Site  
(Cowlitz Food and Fuel / Former Texaco 211556)  
101 Mulford Road  
Toledo Washington

**FIGURE 6**  
Pre-2005 Soil Sampling Results -  
Cross-Section B-B'

**TABLE 1**  
**SUMMARY OF HISTORICAL ANALYTICAL DATA - TPH, BTEX<sup>1</sup>**  
**COWLITZ BP (COWLITZ FOOD AND FUEL)/FORMER TEXACA SERVICE STATION 211556**  
**101 Mulford Road Toledo, Washington**  
**Concentration reported in mg/kg**

Sample ID	Depth (ft)	Date Sampled	Gasoline Range Organics <sup>2</sup> (mg/kg)	Diesel Range Organics (mg/kg)		Heavy Oils (mg/kg)		Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total Lead (mg/kg)
				w/o silica gel	w silica gel	w/o silica gel	w silica gel					
SB-9-4	4	11/4/2013	5.0	<3.7	<3.7	<12	<12	<0.0065	<0.0065	0.0072	<0.019	8.80
SB-9-9	9	11/8/2013	<b>2,400</b>	52	34	<11	<11	<b>0.56</b>	4.5	<2.7	5.0	4.63
SB-9-11	11	11/8/2013	<0.9	<3.3	<3.3	<11	<11	<0.0046	<0.0046	<0.0046	<0.014	3.40
DUP-3-110813	11	11/8/2013	<0.9	<3.2	<3.2	<11	<11	<0.0043	0.0051	<0.0043	<0.013	2.64
SB-10-2	2	11/4/2013	2.5	<3.9	<3.9	<13	<13	<0.0075	0.013	0.023	0.11	7.57
SB-10-6	6	11/6/2013	<b>1,800</b>	96	74	<12	<12	<0.27	0.35	1.0	1.9	10.7
SB-10-9	9	11/7/2013	<b>5,900</b>	160	140	<11	<11	<b>0.65</b>	4.2	<b>7.5</b>	<b>15</b>	7.13
SB-10-13	13	11/7/2013	<1	<3.3	<3.3	<11	<11	<0.0048	<0.0048	<0.0048	<0.15	2.53
SB-11-10	10	11/6/2013	19	<3.3	<3.3	<11	<11	<0.0048	0.0049	0.024	0.046	5.79
SB-11-12.5	12.5	11/6/2013	<1	<3.3	<3.3	<11	<11	<0.0048	<0.0048	<0.0048	<0.014	6.79
SB-12-9.5	9.5	11/6/2013	1.5	<3.3	<3.3	15	<11	<0.0055	<0.0055	<0.0055	<0.016	6.34
SB-12-10.5	10.5	11/6/2013	<b>1,600</b>	<b>2,500</b>	<b>2,300</b>	<110	<110	<0.19	2.2	<1.5	3.4	11.0
SB-12-12	12	11/6/2013	2.6	<3.3	<3.3	<11	<11	<0.0046	<0.0046	<0.0046	<0.014	5.70
SB-12-13.5	13.5	11/6/2013	<1.0	<3.3	<3.3	<11	<11	<0.0051	0.017	<0.0051	<0.015	7.21
SB-13-10.5	10.5	11/7/2013	<b>150</b>	82	76	14	<11	<b>0.085</b>	0.32	0.17	0.88	7.34
SB-13-12.5	12.5	11/7/2013	<1.0	<3.4	<3.4	<11	<11	<0.0052	<0.0052	<0.0052	<0.015	6.78
SB-14-7	7	11/5/2013	<1.1	<3.5	<3.5	<12	<12	<0.0056	<0.0056	<0.0056	<0.017	8.67
SB-14-9.5	9.5	11/7/2013	<b>4,500</b>	190	170	<11	<11	<b>1.7</b>	<b>8.2</b>	<5.3	<b>9.7</b>	7.24
DUP-1-110713	9.5	11/7/2013	<b>2,200</b>	150	140	<11	<11	<0.45	<2.6	1.6	4.2	6.21
SB-14-12.5	12.5	11/7/2013	28	<3.3	<3.3	<11	<11	0.013	0.032	0.054	0.059	3.60
SB-14-14	14	11/7/2013	4.1	<3.2	<3.2	<11	<11	<0.0053	0.0065	0.0059	<0.016	1.85
SB-15-2	2	11/5/2013	<b>74</b>	36	19	83	16	<b>0.032</b>	0.086	0.22	0.65	11.5
SB-15-6	6	11/6/2013	<b>3,300</b>	160	130	<11	<11	<0.57	1.4	3.8	5.7	12.5
SB-15-9	9	11/7/2013	<b>1,100</b>	69	57	<11	<11	<b>0.38</b>	1.4	<b>6.8</b>	7.2	4.24
SB-15-13	13	11/7/2013	3.6	<3.4	<3.4	<11	<11	<0.0048	<0.0048	0.041	<0.014	1.78
SB-16-2	2	11/6/2013	<b>210</b>	7.2	4.2	<14	<14	<0.036	<0.15	0.15	0.24	11.4
SB-16-6	6	11/6/2013	<b>77</b>	4.1	<3.3	<11	<11	<0.0055	0.034	0.012	0.096	13.4
SB-16-8	8	11/7/2013	<b>540</b>	17	12	12	<11	<0.040	0.17	0.42	0.67	5.05
SB-16-10	10	11/7/2013	<b>99</b>	<3.4	<3.4	12	<11	<b>0.054</b>	0.097	0.22	0.20	6.84
SB-17-2	2	11/6/2013	<b>2,800</b>	62	47	33	<13	<0.36	1.1	<b>7.9</b>	<b>65</b>	19.3
SB-17-8	8	11/8/2013	<b>1,300</b>	25	15	<11	<11	<b>1.4</b>	1.7	<b>10</b>	<b>20</b>	3.64
SB-17-11	11	11/8/2013	<0.9	<3.3	<3.3	<11	<11	<0.0046	<0.0046	<0.0046	<0.014	2.67
SB-18-8	8	11/7/2013	<b>580</b>	<3.4	<3.4	<11	<11	<b>0.43</b>	1.2	1.4	0.84	4.55
DUP-2-110713	8	11/7/2013	<b>620</b>	7.8	6.6	<11	<11	<b>0.46</b>	1.3	1.5	0.92	4.09
SB-18-12	12	11/7/2013	<1	<3.5	<3.5	<12	<12	<0.0050	<0.0050	<0.0050	<0.015	3.00
SB-19-9	9	11/8/2013	5.7	<3.2	<3.2	<11	<11	<0.0048	0.014	0.014	0.042	3.55
SB-19-11	19	11/8/2013	<1	<3.2	<3.2	<11	<11	<0.0050	<0.0050	<0.0050	<0.015	2.97
SB-20-2	2	11/8/2013	5.6	19	13	16	<13	<0.0068	0.0068	<0.0091	<0.020	5.29

**TABLE 1**  
**SUMMARY OF HISTORICAL ANALYTICAL DATA - TPH, BTEX<sup>1</sup>**  
**COWLITZ BP (COWLITZ FOOD AND FUEL)/FORMER TEXACA SERVICE STATION 211556**  
**101 Mulford Road Toledo, Washington**  
**Concentration reported in mg/kg**

Sample ID	Depth (ft)	Date Sampled	Gasoline Range	Diesel Range		Heavy Oils (mg/kg)		Benzene	Toluene	Ethylbenzene	Total Xylenes	Total Lead
			Organics <sup>2</sup> (mg/kg)	Organics (mg/kg)	Organics (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SB-20-10	10	11/8/2013	<b>730</b>	65	46	<11	<11	<b>0.26</b>	0.96	2.1	1.1	5.80
SB-20-12	12	11/8/2013	2.1	<3.3	<3.3	<11	<11	<0.0048	<0.0048	0.0077	<0.014	6.07
SB-20-14	14	11/8/2013	<1.0	<3.4	<3.4	<11	<11	<0.0050	<0.0050	<0.0050	<0.015	3.94
SB-21-6	6	11/8/2013	<1.6	<3.7	<3.7	<12	<12	<0.0082	<0.0082	<0.0082	<0.025	3.83
SB-21-9	9	11/8/2013	<b>61</b>	3.3	<3.3	<11	<11	<0.020	<0.069	0.049	0.12	4.42
SB-21-12	12	11/8/2013	<1.2	<3.3	<3.3	<11	<11	<0.0059	<0.0059	<0.0059	<0.018	4.62
MTCA Method A CULs			<b>30/100</b>	<b>2,000</b>		<b>2,000</b>		<b>0.03</b>	<b>7.0</b>	<b>6.0</b>	<b>9.0</b>	<b>250</b>

**ABBREVIATIONS:**

CULs = Cleanup levels  
DUP = Duplicate  
Ecology = Washington State Department of Ecology  
< = Concentration was less than the laboratory reporting limit  
EPA = United States Environmental Protection Agency  
mg/kg = Milligrams per kilogram  
MTCA = Model Toxics Control Act  
TPH = Total Petroleum Hydrocarbons  
BTEX = Benzene, toluene, ethylbenzene and total xylenes  
w = with  
w/o = without

**Notes:**

1. Analytical results in bold font indicate concentrations exceed MTCA Method A cleanup levels.
2. TPH-GRO MTCA Method A cleanup level is 30 mg/kg if benzene is present and 100 mg/kg if benzene is not present.

**ANALYTICAL METHODS:**

Gasoline Range Organics Analyzed by Ecology Method NWTPH-Gx.

Diesel Range Organics Analyzed by Ecology Method NWTPH-Dx with silica-gel cleanup.

Heavy Oils Analyzed by Ecology Method NWTPH-Dx with silica-gel cleanup.

Benzene, Toluene, Ethylbenzene, and Total Xylenes Analyzed by EPA Method 8021B (2004 and older) and EPA Method 8260B (2010)

cPAHs analyzed by EPA Method 8270C SIM

Total Lead analyzed EPA Method 6020



**TABLE 1**  
**SUMMARY OF HISTORICAL ANALYTICAL DATA - cPAHs**  
**COWLITZ BP (COWLITZ FOOD AND FUEL)/FORMER TEXACA SERVICE STATION 211556**  
**101 Mulford Road Toledo, Washington**  
Concentration reported in mg/kg

Sample ID	Depth (ft)	Date Sampled	Benzo(a) anthracene <sup>1</sup> (mg/kg)	Benzo(a) pyrene <sup>1</sup> (mg/kg)	Benzo(b) fluoranthene <sup>1</sup> (mg/kg)	Benzo(k) fluoranthene <sup>1</sup> (mg/kg)	Chrysene <sup>1</sup> (mg/kg)	Dibenz(a,h) anthracene <sup>1</sup> (mg/kg)	(1,2,3-cd) pyrene <sup>1</sup> (mg/kg)
SB-9-4	4	11/4/2013	<0.00082	<0.00082	<0.00082	<0.00082	<0.00041	<0.00082	<0.00082
SB-9-9	9	11/8/2013	0.0053	0.0020	0.0020	0.00082	0.0050	<0.00073	<0.00073
SB-9-11	11	11/8/2013	<0.00074	<0.00074	<0.00074	<0.00074	<0.00037	<0.00074	<0.00074
DUP-3-110813	11	11/8/2013	<0.00072	<0.00072	<0.00072	<0.00072	<0.00036	<0.00072	<0.00072
SB-10-2	2	11/4/2013	<0.00085	<0.00085	<0.00085	<0.00085	0.0013	<0.00085	<0.00085
SB-10-6	6	11/6/2013	0.0070	0.0037	0.0036	0.0019	0.0080	<0.00082	<0.00082
SB-10-9	9	11/7/2013	0.012	0.0046	0.0041	0.0014	0.011	<0.00075	0.0012
SB-10-13	13	11/7/2013	<0.00073	<0.00073	<0.00073	<0.00073	0.00080	<0.00073	<0.00073
SB-11-10	10	11/6/2013	0.00075	<0.00073	0.0017	0.00097	0.0024	<0.00073	<0.00073
SB-11-12.5	12.5	11/6/2013	<0.00073	<0.00073	<0.00073	<0.00073	<0.00037	<0.00073	<0.00073
SB-12-9.5	9.5	11/6/2013	0.0015	0.0021	0.0032	0.0011	0.0026	<0.00074	0.0011
SB-12-10.5	10.5	11/6/2013	<0.0072	<0.0072	<0.0072	<0.0072	0.017	<0.0072	<0.0072
SB-12-12	12	11/6/2013	<0.00073	<0.00073	<0.00073	<0.00073	<0.00037	<0.00073	<0.00073
SB-12-13.5	13.5	11/6/2013	<0.00073	<0.00073	<0.00073	<0.00073	<0.00036	<0.00073	<0.00073
SB-13-10.5	10.5	11/7/2013	<0.00074	<0.00074	0.0011	<0.00074	0.0014	<0.00074	<0.00074
SB-13-12.5	12.5	11/7/2013	<0.00075	<0.00075	<0.00075	<0.00075	<0.00037	<0.00075	<0.00075
SB-14-7	7	11/5/2013	0.0039	0.0055	0.0098	0.0042	0.018	0.0027	0.0017
SB-14-9.5	9.5	11/7/2013	0.027	0.012	0.011	0.0037	0.026	0.0011	0.0022
DUP-1-110713	9.5	11/7/2013	0.014	0.0060	0.0053	0.0021	0.013	<0.00073	0.0012
SB-14-12.5	12.5	11/7/2013	<0.00074	<0.00074	<0.00074	<0.00074	<0.00037	<0.00074	<0.00074
SB-14-14	14	11/7/2013	<0.00072	<0.00072	<0.00072	<0.00072	<0.00036	<0.00072	<0.00072
SB-15-2	2	11/5/2013	<0.00092	0.00093	0.0019	<0.00092	0.0034	<0.00092	<0.00092
SB-15-6	6	11/6/2013	0.015	0.0079	0.0074	0.0037	0.016	0.00079	0.0013
SB-15-9	9	11/7/2013	0.0051	0.0021	0.0021	0.00081	0.0048	<0.00071	<0.00071
SB-15-13	13	11/7/2013	<0.00076	<0.00076	<0.00076	<0.00076	<0.00038	<0.00076	<0.00076
SB-16-2	2	11/6/2013	<0.00091	<0.00091	<0.00091	<0.00091	<0.00045	<0.00091	<0.00091
SB-16-6	6	11/6/2013	0.0029	0.0018	0.0016	0.00081	0.0025	<0.00073	<0.00073
SB-16-8	8	11/7/2013	0.0070	0.0029	0.0024	0.00093	0.0055	<0.00074	<0.00074
SB-16-10	10	11/7/2013	<0.00075	<0.00075	0.0018	<0.00075	0.0011	<0.00075	<0.00075
SB-17-2	2	11/6/2013	0.0018	<0.00086	0.0020	<0.00086	0.0026	<0.00086	<0.00086
SB-17-8	8	11/8/2013	0.0027	0.0011	0.0013	<0.00074	0.0032	<0.00074	<0.00074
SB-17-11	11	11/8/2013	<0.00075	<0.00075	<0.00075	<0.00075	<0.00037	<0.00075	<0.00075
SB-18-8	8	11/7/2013	<0.00074	<0.00074	<0.00074	<0.00074	0.00055	<0.00074	<0.00074
DUP-2-110713	8	11/7/2013	<0.00074	<0.00074	<0.00074	<0.00074	0.00044	<0.00074	<0.00074
SB-18-12	12	11/7/2013	<0.00077	<0.00077	<0.00077	<0.00077	<0.00038	<0.00077	<0.00077

**TABLE 1**  
**SUMMARY OF HISTORICAL ANALYTICAL DATA - cPAHs**  
**COWLITZ BP (COWLITZ FOOD AND FUEL)/FORMER TEXACA SERVICE STATION 211556**  
**101 Mulford Road Toledo, Washington**  
**Concentration reported in mg/kg**

Sample ID	Depth (ft)	Date Sampled	Benzo(a) anthracene <sup>1</sup> (mg/kg)	Benzo(a) pyrene <sup>1</sup> (mg/kg)	Benzo(b) fluoranthene <sup>1</sup> (mg/kg)	Benzo(k) fluoranthene <sup>1</sup> (mg/kg)	Chrysene <sup>1</sup> (mg/kg)	Dibenz(a,h) anthracene <sup>1</sup> (mg/kg)	(1,2,3-cd) pyrene <sup>1</sup> (mg/kg)
SB-19-9	9	11/8/2013	<0.00072	<0.00072	<0.00072	<0.00072	0.00062	<0.00072	<0.00072
SB-19-11	19	11/8/2013	<0.00072	<0.00072	<0.00072	<0.00072	<0.00036	<0.00072	<0.00072
SB-20-2	2	11/8/2013	<0.00087	<0.00087	<0.00087	<0.00087	0.00098	<0.00087	<0.00087
SB-20-10	10	11/8/2013	0.0054	0.0023	0.0021	0.00072	0.0050	<0.00071	<0.00071
SB-20-12	12	11/8/2013	<0.00073	<0.00073	<0.00073	<0.00073	<0.00036	<0.00073	<0.00073
SB-20-14	14	11/8/2013	<0.00075	<0.00075	<0.00075	<0.00075	<0.00037	<0.00075	<0.00075
SB-21-6	6	11/8/2013	<0.00082	<0.00082	<0.00082	<0.00082	<0.00041	<0.00082	<0.00082
SB-21-9	9	11/8/2013	<0.00072	<0.00072	<0.00072	<0.00072	0.00061	<0.00072	<0.00072
SB-21-12	12	11/8/2013	<0.00073	<0.00073	<0.00073	<0.00073	<0.00037	<0.00073	<0.00073
<b>MTCA Method A CULs</b>			--	--	--	--	--	--	--

**Abbreviations:**

cPAHs = Carcinogenic polycyclic aromatic hydrocarbons  
DUP = Duplicate  
(ft.) = Feet  
(mg/kg) = Milligrams per kilogram  
MTCA = Model Toxics Control Act  
SIM = Selective Ion Monitoring  
USEPA = United States Environmental Protection Agency

**Attachment A:**  
**Boring Logs**

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18912 North Creek Parkway, Ste. 101  
Bothell, WA 98011

# Soil Boring: SB-11

Project: Former Texaco Station No. 211556  
Client: Chevron EMC  
Location: 101 Mulford Road, Toledo, WA

Logged By: G. Cisneros  
Date Started: 11/5/2013  
Date Completed: 11/6/2013

Driller: Cascade Drilling LP  
Drill Method: HA/AK/Sonic  
Total Boring Depth: 20 ft  
Elevation: ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	ANALYTICAL RESULTS (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
							1	Road base FILL. Geotextile fabric at 1.25 feet. Boring was cleared by airknife to 8 feet bgs.
							2	Excavation Backfill to 7.25 feet.
							3	
							4	
							5	
							6	
							7	
Wet							8	Quarry Spalls to 9.75 feet.
							9	
Wet	0.0/0.0		SB-11-10	G = 19 D < 3.3 HO < 11 B < 0.0048	GP		10	(GP) Brown, medium dense, sandy, cobbly, medium to coarse GRAVEL with 20% medium to coarse sand and 15% cobbles up to 10 inches in diameter. (no odor, no sheen)
							11	Same as above. (no, odor, no sheen)
Sat.	0.0/0.0		SB-11-12.5	G < 1 D < 3.3 HO < 11 B < 0.0048	GP		12	
Sat.	0.0/0.0				GP		13	(GP) Gray, medium dense, fine to coarse GRAVEL with 10% cobbles and <5% sand. (no odor, no sheen)
Wet					GP		14	
Wet	0.0/0.0				GP		15	Same as above. (no odor, no sheen)
Moist					GP		16	(GP) Same as above. (no odor, no sheen)
Moist	0.0/0.0				ML/CL		17	(ML/CL) Olive gray, very hard, silty CLAY/clayey SILT with high plasticity. (no odor, no sheen)
							18	
							19	Same as above. (no odor, no sheen)
							20	Bottom of borehole at 20.0 feet.

























**Attachment B:**  
**Laboratory Analysis Report**

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## ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental  
2425 New Holland Pike  
Lancaster, PA 17601

Prepared for:

Chevron  
L4310  
6001 Bollinger Canyon Road  
San Ramon CA 94583

November 27, 2013

Project: 211556

Submittal Date: 11/12/2013

Group Number: 1433626

PO Number: 0015119898

Release Number: SHRILL HOPKINS

State of Sample Origin: WA

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
SB-9-4 Grab Soil	7275384
SB-10-2 Grab Soil	7275385
SB-15-2 Grab Soil	7275386
SB-14-7 Grab Soil	7275387
SB-15-6 Grab Soil	7275388
SB-10-6 Grab Soil	7275389
SB-16-2 Grab Soil	7275390
SB-16-6 Grab Soil	7275391
SB-11-10 Grab Soil	7275392
SB-11-12.5 Grab Soil	7275393
SB-17-2 Grab Soil	7275394
SB-12-9.5 Grab Soil	7275395
SB-12-10.5 Grab Soil	7275396
SB-12-12 Grab Soil	7275397
SB-12-13.5 Grab Soil	7275398
SB-13-10.5 Grab Soil	7275399
SB-13-12.5 Grab Soil	7275400
SB-14-9.5 Grab Soil	7275401
DUP-1-110713 Grab Soil	7275402
SB-14-12.5 Grab Soil	7275403
SB-14-14 Grab Soil	7275404
SB-16-8 Grab Soil	7275405
SB-16-10 Grab Soil	7275406
SB-10-9 Grab Soil	7275407
SB-10-13 Grab Soil	7275408
SB-15-9 Grab Soil	7275409
SB-15-13 Grab Soil	7275410
SB-18-8 Grab Soil	7275411
SB-18-12 Grab Soil	7275412
DUP-2-110713 Grab Soil	7275413
SB-17-8 Grab Soil	7275414

SB-17-11 Grab Soil	7275415
SB-9-9 Grab Soil	7275416
SB-20-2 Grab Soil	7275417
SB-9-11 Grab Soil	7275418
DUP-3-110813 Grab Soil	7275419
SB-19-9 Grab Soil	7275420
SB-19-11 Grab Soil	7275421
SB-20-10 Grab Soil	7275422
SB-20-12 Grab Soil	7275423
SB-20-14 Grab Soil	7275424
SB-21-6 Grab Soil	7275425
SB-21-9 Grab Soil	7275426
SB-21-12 Grab Soil	7275427

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC    Leidos  
COPY TO

Attn: Russ Shropshire

Respectfully Submitted,



Lynn M. Frederiksen  
Principal Specialist Group Leader

(717) 556-7255

Sample Description: SB-9-4 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275384  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/04/2013 15:30 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT904

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00082	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00082	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00082	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00082	1
10725	Chrysene	218-01-9	N.D.	0.00041	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00082	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00082	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	5.0	1.3	26.26
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	N.D.	0.0065	26.26
08179	Ethylbenzene	100-41-4	0.0072	0.0065	26.26
08179	Toluene	108-88-3	N.D.	0.0065	26.26
08179	Total Xylenes	1330-20-7	N.D.	0.019	26.26
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.7	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	12	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.7	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	12	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	8.80	0.594	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	19.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
This sample was submitted to the laboratory on 11/13/13 at 10:00.  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-9-4 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275384  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/04/2013 15:30 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT904

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13318SLE026	11/17/2013 07:18	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13318SLE026	11/15/2013 09:20	Anna E Stager	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13319A31A	11/15/2013 21:58	Laura M Krieger	26.26
08179	BTEX by 8021	SW-846 8021B	1	13319A31A	11/15/2013 21:58	Laura M Krieger	26.26
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/04/2013 15:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133180026A	11/20/2013 00:44	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133180027A	11/19/2013 20:06	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133180027A	11/15/2013 07:35	Olivia Arosemena	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133180026A	11/15/2013 07:35	Olivia Arosemena	1
06955	Lead	SW-846 6010B	1	133225708003	11/19/2013 17:24	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708003	11/18/2013 23:15	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820002A	11/18/2013 21:52	Scott W Freisher	1

Sample Description: SB-10-2 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275385  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/04/2013 15:45 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT102

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00085	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00085	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00085	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00085	1
10725	Chrysene	218-01-9	0.0013	0.00042	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00085	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00085	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	2.5	1.5	29.26
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	N.D.	0.0075	29.26
08179	Ethylbenzene	100-41-4	0.023	0.0075	29.26
08179	Toluene	108-88-3	0.013	0.0075	29.26
08179	Total Xylenes	1330-20-7	0.11	0.023	29.26
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.9	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.9	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	13	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	7.57	0.631	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	22.3	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
This sample was submitted to the laboratory on 11/13/13 at 10:00.  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-10-2 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275385  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/04/2013 15:45 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT102

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13318SLE026	11/17/2013 07:50	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13318SLE026	11/15/2013 09:20	Anna E Stager	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13319A31A	11/15/2013 20:43	Laura M Krieger	29.26
08179	BTEX by 8021	SW-846 8021B	1	13319A31A	11/15/2013 20:43	Laura M Krieger	29.26
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/04/2013 15:45	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133180026A	11/20/2013 03:03	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133180027A	11/19/2013 20:26	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133180027A	11/15/2013 07:35	Olivia Arosemena	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133180026A	11/15/2013 07:35	Olivia Arosemena	1
06955	Lead	SW-846 6010B	1	133225708003	11/19/2013 17:28	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708003	11/18/2013 23:15	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820002A	11/18/2013 21:52	Scott W Freisher	1

Sample Description: SB-15-2 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275386  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/05/2013 15:15 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT152

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00092	1
10725	Benzo(a)pyrene	50-32-8	0.00093	0.00092	1
10725	Benzo(b)fluoranthene	205-99-2	0.0019	0.00092	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00092	1
10725	Chrysene	218-01-9	0.0034	0.00046	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00092	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00092	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	74	6.5	116.18
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	0.032	0.0081	29.04
08179	Ethylbenzene	100-41-4	0.22	0.0081	29.04
08179	Toluene	108-88-3	0.086	0.0081	29.04
08179	Total Xylenes	1330-20-7	0.65	0.024	29.04
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	36	4.2	1
08272	Heavy Range Organics C24-C40	n.a.	83	14	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	19	4.2	1
12006	HRO C24-C40 w/Si Gel	n.a.	16	14	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	11.5	0.674	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	28.0	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
This sample was submitted to the laboratory on 11/13/13 at 10:00.  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



Sample Description: SB-15-2 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275386  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/05/2013 15:15 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT152

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13318SLE026	11/17/2013 08:21	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13318SLE026	11/15/2013 09:20	Anna E Stager	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13319A31A	11/16/2013 02:05	Laura M Krieger	116.18
08179	BTEX by 8021	SW-846 8021B	1	13319A31B	11/19/2013 02:47	Marie D Beamenderfer	29.04
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/05/2013 15:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133180026A	11/20/2013 03:42	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133180027A	11/19/2013 23:05	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133180027A	11/15/2013 07:35	Olivia Arosemena	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133180026A	11/15/2013 07:35	Olivia Arosemena	1
06955	Lead	SW-846 6010B	1	133225708003	11/19/2013 17:40	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708003	11/18/2013 23:15	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820002A	11/18/2013 21:52	Scott W Freisher	1

Sample Description: SB-14-7 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275387  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/05/2013 16:10 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT147

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	0.0039	0.00076	1
10725	Benzo(a)pyrene	50-32-8	0.0055	0.00076	1
10725	Benzo(b)fluoranthene	205-99-2	0.0098	0.00076	1
10725	Benzo(k)fluoranthene	207-08-9	0.0042	0.00076	1
10725	Chrysene	218-01-9	0.018	0.00038	1
10725	Dibenz(a,h)anthracene	53-70-3	0.0027	0.00076	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	0.0017	0.00076	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	N.D.	1.1	24.21
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	N.D.	0.0056	24.21
08179	Ethylbenzene	100-41-4	N.D.	0.0056	24.21
08179	Toluene	108-88-3	N.D.	0.0056	24.21
08179	Total Xylenes	1330-20-7	N.D.	0.017	24.21
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.5	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	12	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.5	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	12	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	8.67	0.569	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	13.9	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
This sample was submitted to the laboratory on 11/13/13 at 10:00.  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-14-7 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275387  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/05/2013 16:10 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT147

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13318SLE026	11/19/2013 08:20	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13318SLE026	11/15/2013 09:20	Anna E Stager	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13319A31A	11/15/2013 22:33	Laura M Krieger	24.21
08179	BTEX by 8021	SW-846 8021B	1	13319A31A	11/15/2013 22:33	Laura M Krieger	24.21
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/05/2013 16:10	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133180026A	11/20/2013 01:23	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133180027A	11/19/2013 20:46	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133180027A	11/15/2013 07:35	Olivia Arosemena	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133180026A	11/15/2013 07:35	Olivia Arosemena	1
06955	Lead	SW-846 6010B	1	133225708003	11/19/2013 17:44	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708003	11/18/2013 23:15	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820002A	11/18/2013 21:52	Scott W Freisher	1

**Sample Description:** SB-15-6 Grab Soil  
**Facility#** 211556  
 101 Mulford Road - Toledo, WA

**LL Sample #** SW 7275388  
**LL Group #** 1433626  
**Account #** 11255

**Project Name:** 211556

Collected: 11/06/2013 08:50 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT156

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	0.015	0.00076	1
10725	Benzo(a)pyrene	50-32-8	0.0079	0.00076	1
10725	Benzo(b)fluoranthene	205-99-2	0.0074	0.00076	1
10725	Benzo(k)fluoranthene	207-08-9	0.0037	0.00076	1
10725	Chrysene	218-01-9	0.016	0.00038	1
10725	Dibenz(a,h)anthracene	53-70-3	0.00079	0.00076	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	0.0013	0.00076	1

<b>GC Volatiles ECY 97-602 NWT PH-Gx</b>			mg/kg	mg/kg	
02006	NWT PH-GX Soil C7-C12	n.a.	3,300	230	4931.31

<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	N.D.	0.57	2465.65
08179	Ethylbenzene	100-41-4	3.8	0.57	2465.65
08179	Toluene	108-88-3	1.4	0.57	2465.65
08179	Total Xylenes	1330-20-7	5.7	1.7	2465.65

Reporting limits were raised due to interference from the sample matrix.

<b>GC Petroleum ECY 97-602 NWT PH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	160	3.4	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1

<b>GC Petroleum ECY 97-602 NWT PH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	130	3.4	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1

The reverse surrogate, capric acid, is present at <1%.

<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	12.5	0.558	1

<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	13.0	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

### General Sample Comments

State of Washington Lab Certification No. C457  
 This sample was submitted to the laboratory on 11/13/13 at 10:00.  
 Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-15-6 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275388  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/06/2013 08:50 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT156

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13318SLE026	11/19/2013 10:59	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13318SLE026	11/15/2013 09:20	Anna E Stager	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13319A31B	11/18/2013 19:07	Marie D Beamenderfer	4931.31
08179	BTEX by 8021	SW-846 8021B	1	13319A31A	11/16/2013 03:51	Laura M Krieger	2465.65
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/06/2013 08:50	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133180026A	11/20/2013 03:23	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133180027A	11/19/2013 21:05	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133180027A	11/15/2013 07:35	Olivia Arosemena	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133180026A	11/15/2013 07:35	Olivia Arosemena	1
06955	Lead	SW-846 6010B	1	133225708003	11/19/2013 17:49	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708003	11/18/2013 23:15	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820002A	11/18/2013 21:52	Scott W Freisher	1

**Sample Description:** SB-10-6 Grab Soil  
**Facility#** 211556  
 101 Mulford Road - Toledo, WA

**LL Sample #** SW 7275389  
**LL Group #** 1433626  
**Account #** 11255

**Project Name:** 211556

Collected: 11/06/2013 12:00 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT106

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	0.0070	0.00082	1
10725	Benzo(a)pyrene	50-32-8	0.0037	0.00082	1
10725	Benzo(b)fluoranthene	205-99-2	0.0036	0.00082	1
10725	Benzo(k)fluoranthene	207-08-9	0.0019	0.00082	1
10725	Chrysene	218-01-9	0.0080	0.00041	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00082	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00082	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	1,800	140	2789.51
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	N.D.	0.27	1115.8
08179	Ethylbenzene	100-41-4	1.0	0.27	1115.8
08179	Toluene	108-88-3	0.35	0.27	1115.8
08179	Total Xylenes	1330-20-7	1.9	0.82	1115.8
Reporting limits were raised due to interference from the sample matrix.					
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	96	3.7	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	12	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	74	3.7	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	12	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	10.7	0.601	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	18.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
 This sample was submitted to the laboratory on 11/13/13 at 10:00.  
 Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-10-6 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275389  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/06/2013 12:00 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT106

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13318SLE026	11/19/2013 08:52	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13318SLE026	11/15/2013 09:20	Anna E Stager	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13319A31B	11/18/2013 19:43	Marie D Beamenderfer	2789.51
08179	BTEX by 8021	SW-846 8021B	1	13319A31A	11/16/2013 04:27	Laura M Krieger	1115.8
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/06/2013 12:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133180026A	11/20/2013 02:43	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133180027A	11/19/2013 21:25	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133180027A	11/15/2013 07:35	Olivia Arosemena	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133180026A	11/15/2013 07:35	Olivia Arosemena	1
06955	Lead	SW-846 6010B	1	133225708003	11/19/2013 17:53	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708003	11/18/2013 23:15	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820002A	11/18/2013 21:52	Scott W Freisher	1

Sample Description: **SB-16-2 Grab Soil**  
**Facility# 211556**  
**101 Mulford Road - Toledo, WA**

LL Sample # **SW 7275390**  
 LL Group # **1433626**  
 Account # **11255**

Project Name: **211556**

Collected: 11/06/2013 12:15 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT162

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>mg/kg</b>	<b>mg/kg</b>	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00091	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00091	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00091	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00091	1
10725	Chrysene	218-01-9	N.D.	0.00045	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00091	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00091	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
02006	NWTPH-GX Soil C7-C12	n.a.	210	18	332.07
<b>GC Volatiles SW-846 8021B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
08179	Benzene	71-43-2	N.D.	0.036	132.83
08179	Ethylbenzene	100-41-4	0.15	0.036	132.83
08179	Toluene	108-88-3	N.D.	0.15	132.83
08179	Total Xylenes	1330-20-7	0.24	0.11	132.83
Reporting limits were raised due to interference from the sample matrix.					
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	7.2	4.1	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	4.2	4.1	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	14	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	11.4	0.679	1
<b>Wet Chemistry SM 2540 G-1997</b>			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	27.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
 This sample was submitted to the laboratory on 11/13/13 at 10:00.  
 Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



Sample Description: SB-16-2 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275390  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/06/2013 12:15 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT162

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13318SLE026	11/19/2013 09:24	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13318SLE026	11/15/2013 09:20	Anna E Stager	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13319A31A	11/16/2013 05:02	Laura M Krieger	332.07
08179	BTEX by 8021	SW-846 8021B	1	13319A31B	11/19/2013 00:26	Marie D Beamenderfer	132.83
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/06/2013 12:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133180026A	11/20/2013 01:43	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133180027A	11/19/2013 21:45	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133180027A	11/15/2013 07:35	Olivia Arosemena	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133180026A	11/15/2013 07:35	Olivia Arosemena	1
06955	Lead	SW-846 6010B	1	133225708003	11/19/2013 16:59	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708003	11/18/2013 23:15	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820002A	11/18/2013 21:52	Scott W Freisher	1

Sample Description: SB-16-6 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275391  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/06/2013 13:50 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT166

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	0.0029	0.00073	1
10725	Benzo(a)pyrene	50-32-8	0.0018	0.00073	1
10725	Benzo(b)fluoranthene	205-99-2	0.0016	0.00073	1
10725	Benzo(k)fluoranthene	207-08-9	0.00081	0.00073	1
10725	Chrysene	218-01-9	0.0025	0.00037	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00073	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00073	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	77	4.4	99.65
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	N.D.	0.0055	24.91
08179	Ethylbenzene	100-41-4	0.034	0.0055	24.91
08179	Toluene	108-88-3	0.012	0.0055	24.91
08179	Total Xylenes	1330-20-7	0.096	0.016	24.91
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	4.1	3.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.3	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	13.4	0.540	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	9.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
This sample was submitted to the laboratory on 11/13/13 at 10:00.  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-16-6 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275391  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/06/2013 13:50 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT166

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13318SLE026	11/19/2013 09:55	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13318SLE026	11/15/2013 09:20	Anna E Stager	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13319A31A	11/16/2013 05:37	Laura M Krieger	99.65
08179	BTEX by 8021	SW-846 8021B	1	13319A31B	11/19/2013 03:23	Marie D Beamenderfer	24.91
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/06/2013 13:50	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133180026A	11/20/2013 02:03	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133180027A	11/19/2013 22:05	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133180027A	11/15/2013 07:35	Olivia Arosemena	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133180026A	11/15/2013 07:35	Olivia Arosemena	1
06955	Lead	SW-846 6010B	1	133225708003	11/19/2013 17:57	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708003	11/18/2013 23:15	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820002A	11/18/2013 21:52	Scott W Freisher	1

Sample Description: SB-11-10 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275392  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/06/2013 14:40 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1110

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	0.00075	0.00073	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00073	1
10725	Benzo(b)fluoranthene	205-99-2	0.0017	0.00073	1
10725	Benzo(k)fluoranthene	207-08-9	0.00097	0.00073	1
10725	Chrysene	218-01-9	0.0024	0.00036	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00073	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00073	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	19	1	21.98
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	N.D.	0.0048	21.98
08179	Ethylbenzene	100-41-4	0.024	0.0048	21.98
08179	Toluene	108-88-3	0.0049	0.0048	21.98
08179	Total Xylenes	1330-20-7	0.046	0.015	21.98
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.3	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	5.79	0.551	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	9.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
This sample was submitted to the laboratory on 11/13/13 at 10:00.  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-11-10 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275392  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/06/2013 14:40 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1110

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13318SLE026	11/19/2013 10:27	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13318SLE026	11/15/2013 09:20	Anna E Stager	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13319A31A	11/15/2013 23:09	Laura M Krieger	21.98
08179	BTEX by 8021	SW-846 8021B	1	13319A31A	11/15/2013 23:09	Laura M Krieger	21.98
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/06/2013 14:40	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133180026A	11/20/2013 02:23	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133180027A	11/19/2013 22:25	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133180027A	11/15/2013 07:35	Olivia Arosemena	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133180026A	11/15/2013 07:35	Olivia Arosemena	1
06955	Lead	SW-846 6010B	1	133225708003	11/19/2013 18:01	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708003	11/18/2013 23:15	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820002A	11/18/2013 21:52	Scott W Freisher	1

Sample Description: SB-11-12.5 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275393  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/06/2013 15:15 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1112

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00073	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00073	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00073	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00073	1
10725	Chrysene	218-01-9	N.D.	0.00037	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00073	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00073	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	N.D.	1	21.69
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	N.D.	0.0048	21.69
08179	Ethylbenzene	100-41-4	N.D.	0.0048	21.69
08179	Toluene	108-88-3	N.D.	0.0048	21.69
08179	Total Xylenes	1330-20-7	N.D.	0.014	21.69
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.3	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	6.79	0.527	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	8.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
This sample was submitted to the laboratory on 11/13/13 at 10:00.  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-11-12.5 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275393  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/06/2013 15:15 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1112

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13319SLD026	11/21/2013 07:36	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13319SLD026	11/16/2013 10:30	William H Saadeh	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13319A31A	11/15/2013 23:44	Laura M Krieger	21.69
08179	BTEX by 8021	SW-846 8021B	1	13319A31A	11/15/2013 23:44	Laura M Krieger	21.69
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/06/2013 15:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133180026A	11/20/2013 00:24	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133180027A	11/19/2013 22:45	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133180027A	11/15/2013 07:35	Olivia Arosemena	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133180026A	11/15/2013 07:35	Olivia Arosemena	1
06955	Lead	SW-846 6010B	1	133225708003	11/19/2013 18:05	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708003	11/18/2013 23:15	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820002A	11/18/2013 21:52	Scott W Freisher	1

Sample Description: **SB-17-2 Grab Soil**  
**Facility# 211556**  
**101 Mulford Road - Toledo, WA**

LL Sample # **SW 7275394**  
 LL Group # **1433626**  
 Account # **11255**

Project Name: **211556**

Collected: 11/06/2013 15:30 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT172

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>					
			<b>mg/kg</b>	<b>mg/kg</b>	
10725	Benzo(a)anthracene	56-55-3	0.0018	0.00086	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00086	1
10725	Benzo(b)fluoranthene	205-99-2	0.0020	0.00086	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00086	1
10725	Chrysene	218-01-9	0.0026	0.00043	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00086	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00086	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>					
			<b>mg/kg</b>	<b>mg/kg</b>	
02006	NWTPH-GX Soil C7-C12	n.a.	2,800	360	6970.09
<b>GC Volatiles SW-846 8021B</b>					
			<b>mg/kg</b>	<b>mg/kg</b>	
08179	Benzene	71-43-2	N.D.	0.36	1394.02
08179	Ethylbenzene	100-41-4	7.9	0.36	1394.02
08179	Toluene	108-88-3	1.1	0.36	1394.02
08179	Total Xylenes	1330-20-7	65	1.1	1394.02
Reporting limits were raised due to interference from the sample matrix.					
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>					
			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	62	3.9	1
08272	Heavy Range Organics C24-C40	n.a.	33	13	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>					
			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	47	3.9	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	13	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>					
			<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	19.3	0.625	1
<b>Wet Chemistry SM 2540 G-1997</b>					
			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	23.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
 This sample was submitted to the laboratory on 11/13/13 at 10:00.  
 Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



Sample Description: SB-17-2 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275394  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/06/2013 15:30 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT172

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13319SLD026	11/21/2013 08:07	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13319SLD026	11/16/2013 10:30	William H Saadeh	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13319A31A	11/16/2013 06:13	Laura M Krieger	6970.09
08179	BTEX by 8021	SW-846 8021B	1	13319A31B	11/19/2013 01:01	Marie D Beamenderfer	1394.02
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/06/2013 15:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133200029A	11/21/2013 04:31	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133200030A	11/20/2013 17:17	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133200030A	11/18/2013 07:10	Olivia Arosemena	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133200029A	11/18/2013 07:10	Olivia Arosemena	1
06955	Lead	SW-846 6010B	1	133225708003	11/19/2013 18:09	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708003	11/18/2013 23:15	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820002B	11/18/2013 21:52	Scott W Freisher	1

Sample Description: SB-12-9.5 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275395  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/06/2013 16:00 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT129

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>mg/kg</b>	<b>mg/kg</b>	
10725	Benzo(a)anthracene	56-55-3	0.0015	0.00074	1
10725	Benzo(a)pyrene	50-32-8	0.0021	0.00074	1
10725	Benzo(b)fluoranthene	205-99-2	0.0032	0.00074	1
10725	Benzo(k)fluoranthene	207-08-9	0.0011	0.00074	1
10725	Chrysene	218-01-9	0.0026	0.00037	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00074	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	0.0011	0.00074	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
02006	NWTPH-GX Soil C7-C12	n.a.	1.5	1.1	24.73
<b>GC Volatiles SW-846 8021B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
08179	Benzene	71-43-2	N.D.	0.0055	24.73
08179	Ethylbenzene	100-41-4	N.D.	0.0055	24.73
08179	Toluene	108-88-3	N.D.	0.0055	24.73
08179	Total Xylenes	1330-20-7	N.D.	0.016	24.73
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.3	1
08272	Heavy Range Organics C24-C40	n.a.	15	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.3	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	6.34	0.549	1
<b>Wet Chemistry SM 2540 G-1997</b>			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	9.9	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
This sample was submitted to the laboratory on 11/13/13 at 10:00.  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-12-9.5 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275395  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/06/2013 16:00 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT129

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13319SLD026	11/21/2013 08:38	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13319SLD026	11/16/2013 10:30	William H Saadeh	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13319A31A	11/15/2013 21:22	Laura M Krieger	24.73
08179	BTEX by 8021	SW-846 8021B	1	13319A31A	11/15/2013 21:22	Laura M Krieger	24.73
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/06/2013 16:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133200029A	11/21/2013 05:13	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133200030A	11/20/2013 17:37	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133200030A	11/18/2013 07:10	Olivia Arosemena	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133200029A	11/18/2013 07:10	Olivia Arosemena	1
06955	Lead	SW-846 6010B	1	133225708003	11/19/2013 18:14	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708003	11/18/2013 23:15	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820002B	11/18/2013 21:52	Scott W Freisher	1

**Sample Description:** SB-12-10.5 Grab Soil  
**Facility#** 211556  
 101 Mulford Road - Toledo, WA

**LL Sample #** SW 7275396  
**LL Group #** 1433626  
**Account #** 11255

**Project Name:** 211556

Collected: 11/06/2013 16:15 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1210

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>mg/kg</b>	<b>mg/kg</b>	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.0072	10
10725	Benzo(a)pyrene	50-32-8	N.D.	0.0072	10
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.0072	10
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.0072	10
10725	Chrysene	218-01-9	0.017	0.0036	10
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0072	10
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0072	10
Reporting limits were raised due to interference from the sample matrix.					
<b>GC Volatiles ECY 97-602 NWT PH-Gx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
02006	NWT PH-GX Soil C7-C12	n.a.	1,600	75	1733.89
<b>GC Volatiles SW-846 8021B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
08179	Benzene	71-43-2	N.D.	0.19	866.95
08179	Ethylbenzene	100-41-4	N.D.	1.5	866.95
08179	Toluene	108-88-3	2.2	0.19	866.95
08179	Total Xylenes	1330-20-7	3.4	0.57	866.95
Reporting limits were raised due to interference from the sample matrix.					
<b>GC Petroleum ECY 97-602 NWT PH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	2,500	33	10
08272	Heavy Range Organics C24-C40	n.a.	N.D.	110	10
<b>GC Petroleum ECY 97-602 NWT PH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	2,300	33	10
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	110	10
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	11.0	0.533	1
<b>Wet Chemistry SM 2540 G-1997</b>			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	8.0	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
 This sample was submitted to the laboratory on 11/13/13 at 10:00.  
 Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-12-10.5 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275396  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/06/2013 16:15 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1210

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13319SLD026	11/22/2013 04:38	Mark A Clark	10
10811	BNA Soil Microwave SIM	SW-846 3546	1	13319SLD026	11/16/2013 10:30	William H Saadeh	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13319A31B	11/18/2013 20:18	Marie D Beamenderfer	1733.89
08179	BTEX by 8021	SW-846 8021B	1	13319A31A	11/16/2013 06:48	Laura M Krieger	866.95
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/06/2013 16:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133200029A	11/22/2013 16:50	Glorines Suarez-Rivera	10
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133200030A	11/22/2013 16:31	Glorines Suarez-Rivera	10
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133200030A	11/18/2013 07:10	Olivia Arosemena	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133200029A	11/18/2013 07:10	Olivia Arosemena	1
06955	Lead	SW-846 6010B	1	133225708003	11/19/2013 18:18	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708003	11/18/2013 23:15	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820002B	11/18/2013 21:52	Scott W Freisher	1

Sample Description: SB-12-12 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275397  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/06/2013 16:20 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1212

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00073	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00073	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00073	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00073	1
10725	Chrysene	218-01-9	N.D.	0.00037	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00073	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00073	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	2.6	0.9	20.55
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	N.D.	0.0046	20.55
08179	Ethylbenzene	100-41-4	N.D.	0.0046	20.55
08179	Toluene	108-88-3	N.D.	0.0046	20.55
08179	Total Xylenes	1330-20-7	N.D.	0.014	20.55
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.3	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	5.70	0.538	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	9.7	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
This sample was submitted to the laboratory on 11/13/13 at 10:00.  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-12-12 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275397  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/06/2013 16:20 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1212

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13319SLD026	11/21/2013 09:40	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13319SLD026	11/16/2013 10:30	William H Saadeh	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13319A31A	11/16/2013 00:19	Laura M Krieger	20.55
08179	BTEX by 8021	SW-846 8021B	1	13319A31A	11/16/2013 00:19	Laura M Krieger	20.55
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/06/2013 16:20	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133200029A	11/21/2013 02:02	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133200030A	11/20/2013 18:57	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133200030A	11/18/2013 07:10	Olivia Arosemena	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133200029A	11/18/2013 07:10	Olivia Arosemena	1
06955	Lead	SW-846 6010B	1	133225708003	11/19/2013 18:30	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708003	11/18/2013 23:15	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820002B	11/18/2013 21:52	Scott W Freisher	1

Sample Description: SB-12-13.5 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275398  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/06/2013 16:30 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1213

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00073	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00073	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00073	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00073	1
10725	Chrysene	218-01-9	N.D.	0.00036	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00073	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00073	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	N.D.	1.0	23.17
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	N.D.	0.0051	23.17
08179	Ethylbenzene	100-41-4	N.D.	0.0051	23.17
08179	Toluene	108-88-3	0.017	0.0051	23.17
08179	Total Xylenes	1330-20-7	N.D.	0.015	23.17
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.3	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	7.21	0.530	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	8.4	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
This sample was submitted to the laboratory on 11/13/13 at 10:00.  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



Sample Description: SB-12-13.5 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275398  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/06/2013 16:30 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1213

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13319SLD026	11/21/2013 10:11	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13319SLD026	11/16/2013 10:30	William H Saadeh	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13319A31A	11/16/2013 00:55	Laura M Krieger	23.17
08179	BTEX by 8021	SW-846 8021B	1	13319A31A	11/16/2013 00:55	Laura M Krieger	23.17
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/06/2013 16:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133200029A	11/21/2013 02:23	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133200030A	11/20/2013 19:18	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133200030A	11/18/2013 07:10	Olivia Arosemena	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133200029A	11/18/2013 07:10	Olivia Arosemena	1
06955	Lead	SW-846 6010B	1	133225708003	11/19/2013 18:55	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708003	11/18/2013 23:15	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820002B	11/18/2013 21:52	Scott W Freisher	1

Sample Description: SB-13-10.5 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275399  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 08:30 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1310

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00074	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00074	1
10725	Benzo(b)fluoranthene	205-99-2	0.0011	0.00074	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00074	1
10725	Chrysene	218-01-9	0.0014	0.00037	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00074	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00074	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	150	8.5	192.2
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	0.085	0.017	76.88
08179	Ethylbenzene	100-41-4	0.17	0.017	76.88
08179	Toluene	108-88-3	0.32	0.017	76.88
08179	Total Xylenes	1330-20-7	0.88	0.051	76.88
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	82	3.3	1
08272	Heavy Range Organics C24-C40	n.a.	14	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	76	3.3	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	7.34	0.531	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	9.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
This sample was submitted to the laboratory on 11/13/13 at 10:00.  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-13-10.5 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275399  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 08:30 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1310

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13319SLD026	11/21/2013 14:20	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13319SLD026	11/16/2013 10:30	William H Saadeh	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13319A31B	11/18/2013 20:53	Marie D Beamenderfer	192.2
08179	BTEX by 8021	SW-846 8021B	1	13319A31B	11/19/2013 02:12	Marie D Beamenderfer	76.88
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/07/2013 08:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133200029A	11/21/2013 05:35	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133200030A	11/20/2013 21:05	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133200030A	11/18/2013 07:10	Olivia Arosemena	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133200029A	11/18/2013 07:10	Olivia Arosemena	1
06955	Lead	SW-846 6010B	1	133225708003	11/19/2013 18:38	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708003	11/18/2013 23:15	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820002B	11/18/2013 21:52	Scott W Freisher	1

Sample Description: **SB-13-12.5 Grab Soil**  
**Facility# 211556**  
**101 Mulford Road - Toledo, WA**

LL Sample # **SW 7275400**  
 LL Group # **1433626**  
 Account # **11255**

Project Name: **211556**

Collected: 11/07/2013 08:40 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1312

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>mg/kg</b>	<b>mg/kg</b>	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00075	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00075	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00075	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00075	1
10725	Chrysene	218-01-9	N.D.	0.00037	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00075	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00075	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
02006	NWTPH-GX Soil C7-C12	n.a.	N.D.	1.0	23.03
<b>GC Volatiles SW-846 8021B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
08179	Benzene	71-43-2	N.D.	0.0052	23.03
08179	Ethylbenzene	100-41-4	N.D.	0.0052	23.03
08179	Toluene	108-88-3	N.D.	0.0052	23.03
08179	Total Xylenes	1330-20-7	N.D.	0.015	23.03
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.4	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.4	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	6.78	0.550	1
<b>Wet Chemistry SM 2540 G-1997</b>			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	10.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
 This sample was submitted to the laboratory on 11/13/13 at 10:00.  
 Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-13-12.5 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275400  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 08:40 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1312

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13319SLD026	11/21/2013 14:50	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13319SLD026	11/16/2013 10:30	William H Saadeh	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13319A31A	11/16/2013 01:30	Laura M Krieger	23.03
08179	BTEX by 8021	SW-846 8021B	1	13319A31A	11/16/2013 01:30	Laura M Krieger	23.03
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/07/2013 08:40	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133200029A	11/21/2013 02:44	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133200030A	11/20/2013 19:40	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133200030A	11/18/2013 07:10	Olivia Arosemena	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133200029A	11/18/2013 07:10	Olivia Arosemena	1
06955	Lead	SW-846 6010B	1	133225708003	11/19/2013 18:42	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708003	11/18/2013 23:15	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820002B	11/18/2013 21:52	Scott W Freisher	1

**Sample Description:** SB-14-9.5 Grab Soil  
**Facility#** 211556  
 101 Mulford Road - Toledo, WA

**LL Sample #** SW 7275401  
**LL Group #** 1433626  
**Account #** 11255

**Project Name:** 211556

Collected: 11/07/2013 09:45 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT149

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>mg/kg</b>	<b>mg/kg</b>	
10725	Benzo(a)anthracene	56-55-3	0.027	0.00071	1
10725	Benzo(a)pyrene	50-32-8	0.012	0.00071	1
10725	Benzo(b)fluoranthene	205-99-2	0.011	0.00071	1
10725	Benzo(k)fluoranthene	207-08-9	0.0037	0.00071	1
10725	Chrysene	218-01-9	0.026	0.00036	1
10725	Dibenz(a,h)anthracene	53-70-3	0.0011	0.00071	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	0.0022	0.00071	1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

<b>GC Volatiles ECY 97-602 NWT PH-Gx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
02006	NWT PH-GX Soil C7-C12	n.a.	4,500	190	4464.93

<b>GC Volatiles SW-846 8021B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
08179	Benzene	71-43-2	1.7	0.38	1785.97
08179	Ethylbenzene	100-41-4	N.D.	5.3	1785.97
08179	Toluene	108-88-3	8.2	0.38	1785.97
08179	Total Xylenes	1330-20-7	9.7	1.1	1785.97

Reporting limits were raised due to interference from the sample matrix.

<b>GC Petroleum ECY 97-602 NWT PH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	190	3.2	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1

<b>GC Petroleum ECY 97-602 NWT PH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	170	3.2	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1

The reverse surrogate, capric acid, is present at <1%.

<b>Metals SW-846 6010B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	7.24	0.514	1

<b>Wet Chemistry SM 2540 G-1997</b>			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	6.5	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

### General Sample Comments

State of Washington Lab Certification No. C457  
 This sample was submitted to the laboratory on 11/13/13 at 10:00.  
 Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-14-9.5 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275401  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 09:45 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT149

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13319SLD026	11/21/2013 15:22	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13319SLD026	11/16/2013 10:30	William H Saadeh	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13319A31B	11/18/2013 21:29	Marie D Beamenderfer	4464.93
08179	BTEX by 8021	SW-846 8021B	1	13322A31A	11/20/2013 00:53	Laura M Krieger	1785.97
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/07/2013 09:45	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133200029A	11/21/2013 03:06	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133200030A	11/20/2013 20:01	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133200030A	11/18/2013 07:10	Olivia Arosemena	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133200029A	11/18/2013 07:10	Olivia Arosemena	1
06955	Lead	SW-846 6010B	1	133225708003	11/19/2013 18:47	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708003	11/18/2013 23:15	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820002B	11/18/2013 21:52	Scott W Freisher	1

Sample Description: DUP-1-110713 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275402  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MTFD1

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	0.014	0.00073	1
10725	Benzo(a)pyrene	50-32-8	0.0060	0.00073	1
10725	Benzo(b)fluoranthene	205-99-2	0.0053	0.00073	1
10725	Benzo(k)fluoranthene	207-08-9	0.0021	0.00073	1
10725	Chrysene	218-01-9	0.013	0.00037	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00073	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	0.0012	0.00073	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	2,200	220	5094.47
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	N.D.	0.45	2037.79
08179	Ethylbenzene	100-41-4	1.6	0.45	2037.79
08179	Toluene	108-88-3	N.D.	2.6	2037.79
08179	Total Xylenes	1330-20-7	4.2	1.3	2037.79
Reporting limits were raised due to interference from the sample matrix.					
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	150	3.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	140	3.3	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	6.21	0.539	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	9.0	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
This sample was submitted to the laboratory on 11/13/13 at 10:00.  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



Sample Description: DUP-1-110713 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275402  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MTFD1

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13319SLD026	11/21/2013 15:53	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13319SLD026	11/16/2013 10:30	William H Saadeh	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13319A31B	11/18/2013 22:04	Marie D Beamenderfer	5094.47
08179	BTEX by 8021	SW-846 8021B	1	13319A31B	11/19/2013 01:37	Marie D Beamenderfer	2037.79
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/07/2013 00:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133200029A	11/21/2013 03:27	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133200030A	11/20/2013 20:22	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133200030A	11/18/2013 07:10	Olivia Arosemena	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133200029A	11/18/2013 07:10	Olivia Arosemena	1
06955	Lead	SW-846 6010B	1	133225708003	11/19/2013 18:51	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708003	11/18/2013 23:15	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820002B	11/18/2013 21:52	Scott W Freisher	1

Sample Description: SB-14-12.5 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275403  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 10:00 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1412

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>mg/kg</b>	<b>mg/kg</b>	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00074	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00074	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00074	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00074	1
10725	Chrysene	218-01-9	N.D.	0.00037	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00074	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00074	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
02006	NWTPH-GX Soil C7-C12	n.a.	28	2.0	45.54
<b>GC Volatiles SW-846 8021B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
08179	Benzene	71-43-2	0.013	0.0050	22.77
08179	Ethylbenzene	100-41-4	0.032	0.0050	22.77
08179	Toluene	108-88-3	0.054	0.0050	22.77
08179	Total Xylenes	1330-20-7	0.059	0.015	22.77
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.3	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	3.60	0.532	1
<b>Wet Chemistry SM 2540 G-1997</b>			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	9.6	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
This sample was submitted to the laboratory on 11/13/13 at 10:00.  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-14-12.5 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275403  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 10:00 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1412

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13319SLD026	11/21/2013 16:24	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13319SLD026	11/16/2013 10:30	William H Saadeh	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13319A31B	11/18/2013 22:39	Marie D Beamenderfer	45.54
08179	BTEX by 8021	SW-846 8021B	1	13322A31A	11/20/2013 01:29	Laura M Krieger	22.77
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/07/2013 10:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133200029A	11/21/2013 03:48	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133200030A	11/20/2013 20:43	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133200030A	11/18/2013 07:10	Olivia Arosemena	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133200029A	11/18/2013 07:10	Olivia Arosemena	1
06955	Lead	SW-846 6010B	1	133225708005	11/21/2013 12:40	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708005	11/19/2013 09:25	Denise K Conners	1
00111	Moisture	SM 2540 G-1997	1	13322820002B	11/18/2013 21:52	Scott W Freisher	1

Sample Description: SB-14-14 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275404  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 10:10 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1414

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>mg/kg</b>	<b>mg/kg</b>	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00072	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00072	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00072	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00072	1
10725	Chrysene	218-01-9	N.D.	0.00036	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00072	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00072	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
02006	NWTPH-GX Soil C7-C12	n.a.	4.1	1.1	24.9
<b>GC Volatiles SW-846 8021B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
08179	Benzene	71-43-2	N.D.	0.0053	24.9
08179	Ethylbenzene	100-41-4	0.0059	0.0053	24.9
08179	Toluene	108-88-3	0.0065	0.0053	24.9
08179	Total Xylenes	1330-20-7	N.D.	0.016	24.9
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.2	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.2	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	1.85	0.536	1
<b>Wet Chemistry SM 2540 G-1997</b>			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	6.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
This sample was submitted to the laboratory on 11/13/13 at 10:00.  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-14-14 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275404  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 10:10 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1414

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13319SLD026	11/21/2013 16:54	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13319SLD026	11/16/2013 10:30	William H Saadeh	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13322A31A	11/20/2013 00:18	Laura M Krieger	24.9
08179	BTEX by 8021	SW-846 8021B	1	13322A31A	11/20/2013 00:18	Laura M Krieger	24.9
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/07/2013 10:10	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220009A	11/20/2013 11:38	Tyler O Griffin	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220010A	11/20/2013 05:22	Tyler O Griffin	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220010A	11/18/2013 16:35	JoElla L Rice	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220009A	11/18/2013 16:35	JoElla L Rice	1
06955	Lead	SW-846 6010B	1	133225708005	11/21/2013 12:44	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708005	11/19/2013 09:25	Denise K Connors	1
00111	Moisture	SM 2540 G-1997	1	13322820003A	11/18/2013 21:00	Scott W Freisher	1

**Sample Description:** SB-16-8 Grab Soil  
**Facility#** 211556  
 101 Mulford Road - Toledo, WA

**LL Sample #** SW 7275405  
**LL Group #** 1433626  
**Account #** 11255

**Project Name:** 211556

Collected: 11/07/2013 12:30 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT168

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>mg/kg</b>	<b>mg/kg</b>	
10725	Benzo(a)anthracene	56-55-3	0.0070	0.00074	1
10725	Benzo(a)pyrene	50-32-8	0.0029	0.00074	1
10725	Benzo(b)fluoranthene	205-99-2	0.0024	0.00074	1
10725	Benzo(k)fluoranthene	207-08-9	0.00093	0.00074	1
10725	Chrysene	218-01-9	0.0055	0.00037	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00074	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00074	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
02006	NWTPH-GX Soil C7-C12	n.a.	540	20	450.64
<b>GC Volatiles SW-846 8021B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
08179	Benzene	71-43-2	N.D.	0.040	180.25
08179	Ethylbenzene	100-41-4	0.42	0.040	180.25
08179	Toluene	108-88-3	0.17	0.040	180.25
08179	Total Xylenes	1330-20-7	0.67	0.12	180.25
Reporting limits were raised due to interference from the sample matrix.					
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	17	3.3	1
08272	Heavy Range Organics C24-C40	n.a.	12	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	12	3.3	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	5.05	0.552	1
<b>Wet Chemistry SM 2540 G-1997</b>			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	10.3	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
 This sample was submitted to the laboratory on 11/13/13 at 10:00.  
 Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-16-8 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275405  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 12:30 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT168

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13319SLD026	11/21/2013 17:25	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13319SLD026	11/16/2013 10:30	William H Saadeh	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13322A31B	11/20/2013 21:42	Marie D Beamenderfer	450.64
08179	BTEX by 8021	SW-846 8021B	1	13322A31B	11/21/2013 04:23	Marie D Beamenderfer	180.25
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/07/2013 12:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220009A	11/20/2013 11:58	Tyler O Griffin	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220010A	11/20/2013 06:01	Tyler O Griffin	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220010A	11/18/2013 16:35	JoElla L Rice	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220009A	11/18/2013 16:35	JoElla L Rice	1
06955	Lead	SW-846 6010B	1	133225708005	11/21/2013 12:56	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708005	11/19/2013 09:25	Denise K Connors	1
00111	Moisture	SM 2540 G-1997	1	13322820003A	11/18/2013 21:00	Scott W Freisher	1

Sample Description: SB-16-10 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275406  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 12:45 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00075	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00075	1
10725	Benzo(b)fluoranthene	205-99-2	0.0018	0.00075	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00075	1
10725	Chrysene	218-01-9	0.0011	0.00037	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00075	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00075	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	99	7.5	164.92
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	0.054	0.019	82.46
08179	Ethylbenzene	100-41-4	0.22	0.019	82.46
08179	Toluene	108-88-3	0.097	0.019	82.46
08179	Total Xylenes	1330-20-7	0.20	0.056	82.46
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.4	1
08272	Heavy Range Organics C24-C40	n.a.	12	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.4	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	6.84	0.559	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	11.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
This sample was submitted to the laboratory on 11/13/13 at 10:00.  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



Sample Description: SB-16-10 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275406  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 12:45 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT-16

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13319SLD026	11/22/2013 03:36	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13319SLD026	11/16/2013 10:30	William H Saadeh	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13324A31A	11/21/2013 20:00	Laura M Krieger	164.92
08179	BTEX by 8021	SW-846 8021B	1	13322A31B	11/20/2013 22:19	Marie D Beamenderfer	82.46
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/07/2013 12:45	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220009A	11/20/2013 12:18	Tyler O Griffin	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220010A	11/20/2013 06:21	Tyler O Griffin	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220010A	11/18/2013 16:35	JoElla L Rice	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220009A	11/18/2013 16:35	JoElla L Rice	1
06955	Lead	SW-846 6010B	1	133225708005	11/21/2013 13:00	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708005	11/19/2013 09:25	Denise K Connors	1
00111	Moisture	SM 2540 G-1997	1	13322820003A	11/18/2013 21:00	Scott W Freisher	1

Sample Description: SB-10-9 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275407  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 13:20 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT109

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	0.012	0.00075	1
10725	Benzo(a)pyrene	50-32-8	0.0046	0.00075	1
10725	Benzo(b)fluoranthene	205-99-2	0.0041	0.00075	1
10725	Benzo(k)fluoranthene	207-08-9	0.0014	0.00075	1
10725	Chrysene	218-01-9	0.011	0.00038	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00075	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	0.0012	0.00075	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	5,900	270	5986.01
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	0.65	0.54	2394.4
08179	Ethylbenzene	100-41-4	7.5	0.54	2394.4
08179	Toluene	108-88-3	4.2	0.54	2394.4
08179	Total Xylenes	1330-20-7	15	1.6	2394.4
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	160	3.4	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	140	3.4	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	7.13	0.543	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	11.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
This sample was submitted to the laboratory on 11/13/13 at 10:00.  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-10-9 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275407  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 13:20 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT109

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13319SLD026	11/22/2013 04:07	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13319SLD026	11/16/2013 10:30	William H Saadeh	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13322A31B	11/20/2013 22:55	Marie D Beamenderfer	5986.01
08179	BTEX by 8021	SW-846 8021B	1	13322A31B	11/21/2013 04:59	Marie D Beamenderfer	2394.4
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/07/2013 13:20	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220009A	11/20/2013 12:38	Tyler O Griffin	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220010A	11/20/2013 06:41	Tyler O Griffin	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220010A	11/18/2013 16:35	JoElla L Rice	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220009A	11/18/2013 16:35	JoElla L Rice	1
06955	Lead	SW-846 6010B	1	133225708005	11/21/2013 13:04	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708005	11/19/2013 09:25	Denise K Conners	1
00111	Moisture	SM 2540 G-1997	1	13322820003A	11/18/2013 21:00	Scott W Freisher	1

Sample Description: SB-10-13 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275408  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 13:30 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1013

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>mg/kg</b>	<b>mg/kg</b>	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00073	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00073	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00073	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00073	1
10725	Chrysene	218-01-9	0.00080	0.00037	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00073	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00073	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
02006	NWTPH-GX Soil C7-C12	n.a.	N.D.	1	21.85
<b>GC Volatiles SW-846 8021B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
08179	Benzene	71-43-2	N.D.	0.0048	21.85
08179	Ethylbenzene	100-41-4	N.D.	0.0048	21.85
08179	Toluene	108-88-3	N.D.	0.0048	21.85
08179	Total Xylenes	1330-20-7	N.D.	0.015	21.85
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.3	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	2.53	0.533	1
<b>Wet Chemistry SM 2540 G-1997</b>			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	9.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
This sample was submitted to the laboratory on 11/13/13 at 10:00.  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-10-13 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275408  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 13:30 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1013

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13320SLD026	11/21/2013 18:59	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13320SLD026	11/18/2013 03:00	Sherry L Morrow	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13322A31A	11/19/2013 20:10	Laura M Krieger	21.85
08179	BTEX by 8021	SW-846 8021B	1	13322A31A	11/19/2013 20:10	Laura M Krieger	21.85
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/07/2013 13:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220009A	11/20/2013 09:39	Tyler O Griffin	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220010A	11/20/2013 07:01	Tyler O Griffin	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220010A	11/18/2013 16:35	JoElla L Rice	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220009A	11/18/2013 16:35	JoElla L Rice	1
06955	Lead	SW-846 6010B	1	133225708005	11/21/2013 13:08	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708005	11/19/2013 09:25	Denise K Connors	1
00111	Moisture	SM 2540 G-1997	1	13322820003A	11/18/2013 21:00	Scott W Freisher	1

Sample Description: SB-15-9 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275409  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 14:15 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT159

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	0.0051	0.00071	1
10725	Benzo(a)pyrene	50-32-8	0.0021	0.00071	1
10725	Benzo(b)fluoranthene	205-99-2	0.0021	0.00071	1
10725	Benzo(k)fluoranthene	207-08-9	0.00081	0.00071	1
10725	Chrysene	218-01-9	0.0048	0.00036	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00071	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00071	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	1,100	88	2059.18
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	0.38	0.22	1029.59
08179	Ethylbenzene	100-41-4	6.8	0.22	1029.59
08179	Toluene	108-88-3	1.4	0.22	1029.59
08179	Total Xylenes	1330-20-7	7.2	0.66	1029.59
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	69	3.2	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	57	3.2	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	4.24	0.530	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	6.6	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
This sample was submitted to the laboratory on 11/13/13 at 10:00.  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-15-9 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275409  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 14:15 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT159

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13320SLD026	11/21/2013 20:35	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13320SLD026	11/18/2013 03:00	Sherry L Morrow	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13322A31B	11/20/2013 23:32	Marie D Beamenderfer	2059.18
08179	BTEX by 8021	SW-846 8021B	1	13322A31A	11/20/2013 05:01	Laura M Krieger	1029.59
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/07/2013 14:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220009A	11/20/2013 09:59	Tyler O Griffin	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220010A	11/20/2013 07:21	Tyler O Griffin	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220010A	11/18/2013 16:35	JoElla L Rice	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220009A	11/18/2013 16:35	JoElla L Rice	1
06955	Lead	SW-846 6010B	1	133225708005	11/21/2013 13:12	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708005	11/19/2013 09:25	Denise K Conners	1
00111	Moisture	SM 2540 G-1997	1	13322820003A	11/18/2013 21:00	Scott W Freisher	1

Sample Description: SB-15-13 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275410  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 14:40 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1513

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00076	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00076	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00076	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00076	1
10725	Chrysene	218-01-9	N.D.	0.00038	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00076	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00076	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	3.6	1	20.89
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	N.D.	0.0048	20.89
08179	Ethylbenzene	100-41-4	0.041	0.0048	20.89
08179	Toluene	108-88-3	N.D.	0.0048	20.89
08179	Total Xylenes	1330-20-7	0.069	0.014	20.89
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.4	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.4	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	1.78	0.552	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	12.9	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
This sample was submitted to the laboratory on 11/13/13 at 10:00.  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



Sample Description: SB-15-13 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275410  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 14:40 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1513

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13320SLD026	11/21/2013 21:07	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13320SLD026	11/18/2013 03:00	Sherry L Morrow	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13322A31B	11/21/2013 00:08	Marie D Beamenderfer	20.89
08179	BTEX by 8021	SW-846 8021B	1	13322A31B	11/21/2013 00:08	Marie D Beamenderfer	20.89
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/07/2013 14:40	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220009A	11/20/2013 10:19	Tyler O Griffin	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220010A	11/20/2013 07:40	Tyler O Griffin	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220010A	11/18/2013 16:35	JoElla L Rice	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220009A	11/18/2013 16:35	JoElla L Rice	1
06955	Lead	SW-846 6010B	1	133225708005	11/21/2013 13:16	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708005	11/19/2013 09:25	Denise K Conners	1
00111	Moisture	SM 2540 G-1997	1	13322820003A	11/18/2013 21:00	Scott W Freisher	1

**Sample Description:** SB-18-8 Grab Soil  
**Facility#** 211556  
 101 Mulford Road - Toledo, WA

**LL Sample #** SW 7275411  
**LL Group #** 1433626  
**Account #** 11255

**Project Name:** 211556

Collected: 11/07/2013 15:30 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT188

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>mg/kg</b>	<b>mg/kg</b>	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00074	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00074	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00074	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00074	1
10725	Chrysene	218-01-9	0.00055	0.00037	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00074	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00074	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
02006	NWTPH-GX Soil C7-C12	n.a.	580	38	836.96
<b>GC Volatiles SW-846 8021B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
08179	Benzene	71-43-2	0.43	0.094	418.48
08179	Ethylbenzene	100-41-4	1.4	0.094	418.48
08179	Toluene	108-88-3	1.2	0.094	418.48
08179	Total Xylenes	1330-20-7	0.84	0.28	418.48
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.4	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.4	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	4.55	0.551	1
<b>Wet Chemistry SM 2540 G-1997</b>			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	11.0	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
 Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-18-8 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275411  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 15:30 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT188

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13320SLD026	11/21/2013 21:40	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13320SLD026	11/18/2013 03:00	Sherry L Morrow	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13324A31A	11/21/2013 20:37	Laura M Krieger	836.96
08179	BTEX by 8021	SW-846 8021B	1	13322A31B	11/21/2013 00:44	Marie D Beamenderfer	418.48
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/07/2013 15:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220009A	11/20/2013 10:39	Tyler O Griffin	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220010A	11/20/2013 08:00	Tyler O Griffin	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220010A	11/18/2013 16:35	JoElla L Rice	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220009A	11/18/2013 16:35	JoElla L Rice	1
06955	Lead	SW-846 6010B	1	133225708005	11/21/2013 13:20	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708005	11/19/2013 09:25	Denise K Connors	1
00111	Moisture	SM 2540 G-1997	1	13322820003A	11/18/2013 21:00	Scott W Freisher	1

Sample Description: SB-18-12 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275412  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 15:40 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1812

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00077	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00077	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00077	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00077	1
10725	Chrysene	218-01-9	N.D.	0.00038	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00077	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00077	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	N.D.	1	21.54
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	N.D.	0.0050	21.54
08179	Ethylbenzene	100-41-4	N.D.	0.0050	21.54
08179	Toluene	108-88-3	N.D.	0.0050	21.54
08179	Total Xylenes	1330-20-7	N.D.	0.015	21.54
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.5	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	12	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.5	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	12	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	3.00	0.578	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	13.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-18-12 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275412  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 15:40 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1812

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13320SLD026	11/21/2013 22:12	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13320SLD026	11/18/2013 03:00	Sherry L Morrow	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13322A31A	11/19/2013 20:46	Laura M Krieger	21.54
08179	BTEX by 8021	SW-846 8021B	1	13322A31A	11/19/2013 20:46	Laura M Krieger	21.54
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/07/2013 15:40	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220009A	11/20/2013 10:59	Tyler O Griffin	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220010A	11/20/2013 08:20	Tyler O Griffin	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220010A	11/18/2013 16:35	JoElla L Rice	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220009A	11/18/2013 16:35	JoElla L Rice	1
06955	Lead	SW-846 6010B	1	133225708005	11/21/2013 13:24	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708005	11/19/2013 09:25	Denise K Conners	1
00111	Moisture	SM 2540 G-1997	1	13322820003A	11/18/2013 21:00	Scott W Freisher	1

**Sample Description:** DUP-2-110713 Grab Soil  
**Facility#** 211556  
 101 Mulford Road - Toledo, WA

**LL Sample #** SW 7275413  
**LL Group #** 1433626  
**Account #** 11255

**Project Name:** 211556

Collected: 11/07/2013 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MTFD2

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>mg/kg</b>	<b>mg/kg</b>	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00074	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00074	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00074	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00074	1
10725	Chrysene	218-01-9	0.00044	0.00037	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00074	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00074	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
02006	NWTPH-GX Soil C7-C12	n.a.	620	35	789.81
<b>GC Volatiles SW-846 8021B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
08179	Benzene	71-43-2	0.46	0.087	394.91
08179	Ethylbenzene	100-41-4	1.5	0.087	394.91
08179	Toluene	108-88-3	1.3	0.087	394.91
08179	Total Xylenes	1330-20-7	0.92	0.26	394.91
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	7.8	3.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	6.6	3.3	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	4.09	0.537	1
<b>Wet Chemistry SM 2540 G-1997</b>			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	9.6	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
 Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: DUP-2-110713 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275413  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/07/2013 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MTFD2

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13320SLD026	11/21/2013 22:44	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13320SLD026	11/18/2013 03:00	Sherry L Morrow	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13322A31B	11/21/2013 01:21	Marie D Beamenderfer	789.81
08179	BTEX by 8021	SW-846 8021B	1	13322A31A	11/20/2013 06:47	Laura M Krieger	394.91
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/07/2013 00:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220020A	11/21/2013 09:07	Glorines Suarez-Rivera	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220021A	11/21/2013 13:16	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220021A	11/18/2013 23:25	Karen L Beyer	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220020A	11/18/2013 23:25	Karen L Beyer	1
06955	Lead	SW-846 6010B	1	133225708005	11/21/2013 13:29	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708005	11/19/2013 09:25	Denise K Connors	1
00111	Moisture	SM 2540 G-1997	1	13322820003A	11/18/2013 21:00	Scott W Freisher	1

**Sample Description:** SB-17-8 Grab Soil  
**Facility#** 211556  
 101 Mulford Road - Toledo, WA

**LL Sample #** SW 7275414  
**LL Group #** 1433626  
**Account #** 11255

**Project Name:** 211556

Collected: 11/08/2013 08:20 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT178

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>mg/kg</b>	<b>mg/kg</b>	
10725	Benzo(a)anthracene	56-55-3	0.0027	0.00074	1
10725	Benzo(a)pyrene	50-32-8	0.0011	0.00074	1
10725	Benzo(b)fluoranthene	205-99-2	0.0013	0.00074	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00074	1
10725	Chrysene	218-01-9	0.0032	0.00037	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00074	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00074	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
02006	NWTPH-GX Soil C7-C12	n.a.	1,300	190	4348.11
<b>GC Volatiles SW-846 8021B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
08179	Benzene	71-43-2	1.4	0.48	2174.05
08179	Ethylbenzene	100-41-4	10	0.48	2174.05
08179	Toluene	108-88-3	1.7	0.48	2174.05
08179	Total Xylenes	1330-20-7	20	1.5	2174.05
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	25	3.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	15	3.3	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	3.64	0.551	1
<b>Wet Chemistry SM 2540 G-1997</b>			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	10.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
 Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



Sample Description: SB-17-8 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275414  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 08:20 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT178

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13320SLD026	11/21/2013 23:17	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13320SLD026	11/18/2013 03:00	Sherry L Morrow	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13322A31B	11/21/2013 02:34	Marie D Beamenderfer	4348.11
08179	BTEX by 8021	SW-846 8021B	1	13322A31B	11/21/2013 05:36	Marie D Beamenderfer	2174.05
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/08/2013 08:20	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220020A	11/21/2013 12:55	Glorines Suarez-Rivera	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220021A	11/21/2013 13:37	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220021A	11/18/2013 23:25	Karen L Beyer	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220020A	11/18/2013 23:25	Karen L Beyer	1
06955	Lead	SW-846 6010B	1	133225708005	11/21/2013 12:15	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708005	11/19/2013 09:25	Denise K Connors	1
00111	Moisture	SM 2540 G-1997	1	13322820003B	11/18/2013 21:00	Scott W Freisher	1

**Sample Description:** SB-17-11 Grab Soil  
**Facility#** 211556  
 101 Mulford Road - Toledo, WA

**LL Sample #** SW 7275415  
**LL Group #** 1433626  
**Account #** 11255

**Project Name:** 211556

Collected: 11/08/2013 08:30 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1711

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>					
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00075	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00075	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00075	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00075	1
10725	Chrysene	218-01-9	N.D.	0.00037	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00075	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00075	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>					
02006	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.9	20.6
<b>GC Volatiles SW-846 8021B</b>					
08179	Benzene	71-43-2	N.D.	0.0046	20.6
08179	Ethylbenzene	100-41-4	N.D.	0.0046	20.6
08179	Toluene	108-88-3	N.D.	0.0046	20.6
08179	Total Xylenes	1330-20-7	N.D.	0.014	20.6
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>					
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>					
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.3	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>					
06955	Lead	7439-92-1	2.67	0.559	1
<b>Wet Chemistry SM 2540 G-1997</b>					
00111	Moisture	n.a.	10.6	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
 Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-17-11 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275415  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 08:30 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1711

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13320SLD026	11/21/2013 23:49	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13320SLD026	11/18/2013 03:00	Sherry L Morrow	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13322A31B	11/20/2013 21:06	Marie D Beamenderfer	20.6
08179	BTEX by 8021	SW-846 8021B	1	13322A31B	11/20/2013 21:06	Marie D Beamenderfer	20.6
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/08/2013 08:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220020A	11/21/2013 13:37	Glorines Suarez-Rivera	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220021A	11/21/2013 14:20	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220021A	11/18/2013 23:25	Karen L Beyer	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220020A	11/18/2013 23:25	Karen L Beyer	1
06955	Lead	SW-846 6010B	1	133225708005	11/21/2013 13:33	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708005	11/19/2013 09:25	Denise K Connors	1
00111	Moisture	SM 2540 G-1997	1	13322820003B	11/18/2013 21:00	Scott W Freisher	1

Sample Description: SB-9-9 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275416  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 09:00 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT099

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	0.0053	0.00073	1
10725	Benzo(a)pyrene	50-32-8	0.0020	0.00073	1
10725	Benzo(b)fluoranthene	205-99-2	0.0020	0.00073	1
10725	Benzo(k)fluoranthene	207-08-9	0.00082	0.00073	1
10725	Chrysene	218-01-9	0.0050	0.00036	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00073	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00073	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	2,400	94	2148.04
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	0.56	0.19	859.22
08179	Ethylbenzene	100-41-4	N.D.	2.7	859.22
08179	Toluene	108-88-3	4.5	0.19	859.22
08179	Total Xylenes	1330-20-7	5.0	0.56	859.22
Reporting limits were raised due to interference from the sample matrix.					
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	52	3.2	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	34	3.2	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	4.63	0.542	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	8.6	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-9-9 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275416  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 09:00 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT099

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13320SLD026	11/22/2013 00:22	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13320SLD026	11/18/2013 03:00	Sherry L Morrow	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13322A31B	11/21/2013 03:10	Marie D Beamenderfer	2148.04
08179	BTEX by 8021	SW-846 8021B	1	13322A31B	11/21/2013 06:12	Marie D Beamenderfer	859.22
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/08/2013 09:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220020A	11/21/2013 16:06	Glorines Suarez-Rivera	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220021A	11/26/2013 09:13	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220021A	11/18/2013 23:25	Karen L Beyer	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220020A	11/18/2013 23:25	Karen L Beyer	1
06955	Lead	SW-846 6010B	1	133225708005	11/21/2013 13:44	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708005	11/19/2013 09:25	Denise K Connors	1
00111	Moisture	SM 2540 G-1997	1	13322820003B	11/18/2013 21:00	Scott W Freisher	1

Sample Description: **SB-20-2 Grab Soil**  
**Facility# 211556**  
**101 Mulford Road - Toledo, WA**

LL Sample # **SW 7275417**  
 LL Group # **1433626**  
 Account # **11255**

Project Name: **211556**

Collected: 11/08/2013 09:10 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT202

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>mg/kg</b>	<b>mg/kg</b>	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00087	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00087	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00087	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00087	1
10725	Chrysene	218-01-9	0.00098	0.00043	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00087	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00087	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
02006	NWTPH-GX Soil C7-C12	n.a.	5.6	1.4	26.05
<b>GC Volatiles SW-846 8021B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
08179	Benzene	71-43-2	N.D.	0.0068	26.05
08179	Ethylbenzene	100-41-4	N.D.	0.0091	26.05
08179	Toluene	108-88-3	0.0068	0.0068	26.05
08179	Total Xylenes	1330-20-7	N.D.	0.020	26.05
Reporting limits were raised due to interference from the sample matrix.					
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	19	3.9	1
08272	Heavy Range Organics C24-C40	n.a.	16	13	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	13	3.9	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	13	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	5.29	0.643	1
<b>Wet Chemistry SM 2540 G-1997</b>			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	23.0	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
 Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-20-2 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275417  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 09:10 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT202

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13320SLD026	11/22/2013 00:54	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13320SLD026	11/18/2013 03:00	Sherry L Morrow	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13322A31B	11/20/2013 19:30	Marie D Beamenderfer	26.05
08179	BTEX by 8021	SW-846 8021B	1	13322A31B	11/20/2013 19:30	Marie D Beamenderfer	26.05
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/08/2013 09:10	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220020A	11/21/2013 13:58	Glorines Suarez-Rivera	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220021A	11/21/2013 14:41	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220021A	11/18/2013 23:25	Karen L Beyer	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220020A	11/18/2013 23:25	Karen L Beyer	1
06955	Lead	SW-846 6010B	1	133225708005	11/21/2013 13:48	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708005	11/19/2013 09:25	Denise K Connors	1
00111	Moisture	SM 2540 G-1997	1	13322820003B	11/18/2013 21:00	Scott W Freisher	1

Sample Description: SB-9-11 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275418  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 09:15 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT911

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00074	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00074	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00074	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00074	1
10725	Chrysene	218-01-9	N.D.	0.00037	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00074	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00074	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.9	20.53
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	N.D.	0.0046	20.53
08179	Ethylbenzene	100-41-4	N.D.	0.0046	20.53
08179	Toluene	108-88-3	N.D.	0.0046	20.53
08179	Total Xylenes	1330-20-7	N.D.	0.014	20.53
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.3	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	3.40	0.537	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	10.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



Sample Description: SB-9-11 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275418  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 09:15 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT911

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13320SLD026	11/22/2013 01:26	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13320SLD026	11/18/2013 03:00	Sherry L Morrow	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13322A31B	11/20/2013 20:07	Marie D Beamenderfer	20.53
08179	BTEX by 8021	SW-846 8021B	1	13322A31B	11/20/2013 20:07	Marie D Beamenderfer	20.53
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/08/2013 09:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220020A	11/21/2013 14:20	Glorines Suarez-Rivera	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220021A	11/21/2013 15:02	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220021A	11/18/2013 23:25	Karen L Beyer	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220020A	11/18/2013 23:25	Karen L Beyer	1
06955	Lead	SW-846 6010B	1	133225708005	11/21/2013 13:53	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708005	11/19/2013 09:25	Denise K Connors	1
00111	Moisture	SM 2540 G-1997	1	13322820003B	11/18/2013 21:00	Scott W Freisher	1

**Sample Description:** DUP-3-110813 Grab Soil  
**Facility#** 211556  
 101 Mulford Road - Toledo, WA

**LL Sample #** SW 7275419  
**LL Group #** 1433626  
**Account #** 11255

**Project Name:** 211556

Collected: 11/08/2013 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MTFD3

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>mg/kg</b>	<b>mg/kg</b>	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00072	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00072	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00072	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00072	1
10725	Chrysene	218-01-9	N.D.	0.00036	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00072	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00072	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
02006	NWTPH-GX Soil C7-C12	n.a.	N.D.	0.9	19.75
<b>GC Volatiles SW-846 8021B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
08179	Benzene	71-43-2	N.D.	0.0043	19.75
08179	Ethylbenzene	100-41-4	N.D.	0.0043	19.75
08179	Toluene	108-88-3	0.0051	0.0043	19.75
08179	Total Xylenes	1330-20-7	N.D.	0.013	19.75
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.2	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.2	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	2.64	0.529	1
<b>Wet Chemistry SM 2540 G-1997</b>			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	8.3	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
 Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: DUP-3-110813 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275419  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MTFD3

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13320SLD026	11/22/2013 01:58	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13320SLD026	11/18/2013 03:00	Sherry L Morrow	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13322A31A	11/19/2013 22:32	Laura M Krieger	19.75
08179	BTEX by 8021	SW-846 8021B	1	13322A31A	11/19/2013 22:32	Laura M Krieger	19.75
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/08/2013 00:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220020A	11/21/2013 14:41	Glorines Suarez-Rivera	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220021A	11/21/2013 15:23	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220021A	11/18/2013 23:25	Karen L Beyer	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220020A	11/18/2013 23:25	Karen L Beyer	1
06955	Lead	SW-846 6010B	1	133225708005	11/21/2013 13:57	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708005	11/19/2013 09:25	Denise K Conners	1
00111	Moisture	SM 2540 G-1997	1	13322820003B	11/18/2013 21:00	Scott W Freisher	1

**Sample Description: SB-19-9 Grab Soil**  
**Facility# 211556**  
**101 Mulford Road - Toledo, WA**

**LL Sample # SW 7275420**  
**LL Group # 1433626**  
**Account # 11255**

**Project Name: 211556**

Collected: 11/08/2013 10:00 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT199

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>mg/kg</b>	<b>mg/kg</b>	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00072	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00072	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00072	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00072	1
10725	Chrysene	218-01-9	0.00062	0.00036	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00072	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00072	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
02006	NWTPH-GX Soil C7-C12	n.a.	5.7	1	22.1
<b>GC Volatiles SW-846 8021B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
08179	Benzene	71-43-2	N.D.	0.0048	22.1
08179	Ethylbenzene	100-41-4	0.014	0.0048	22.1
08179	Toluene	108-88-3	0.014	0.0048	22.1
08179	Total Xylenes	1330-20-7	0.042	0.015	22.1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.2	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.2	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	3.55	0.532	1
<b>Wet Chemistry SM 2540 G-1997</b>			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	8.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
 Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-19-9 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275420  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 10:00 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT199

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13320SLD026	11/22/2013 02:31	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13320SLD026	11/18/2013 03:00	Sherry L Morrow	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13322A31A	11/19/2013 23:07	Laura M Krieger	22.1
08179	BTEX by 8021	SW-846 8021B	1	13322A31A	11/19/2013 23:07	Laura M Krieger	22.1
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/08/2013 10:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220020A	11/21/2013 15:44	Glorines Suarez-Rivera	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220021A	11/21/2013 15:44	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220021A	11/18/2013 23:25	Karen L Beyer	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220020A	11/18/2013 23:25	Karen L Beyer	1
06955	Lead	SW-846 6010B	1	133225708005	11/21/2013 14:01	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708005	11/19/2013 09:25	Denise K Conners	1
00111	Moisture	SM 2540 G-1997	1	13322820003B	11/18/2013 21:00	Scott W Freisher	1

Sample Description: SB-19-11 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275421  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 10:15 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1911

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00072	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00072	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00072	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00072	1
10725	Chrysene	218-01-9	N.D.	0.00036	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00072	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00072	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	N.D.	1	23.03
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	N.D.	0.0050	23.03
08179	Ethylbenzene	100-41-4	N.D.	0.0050	23.03
08179	Toluene	108-88-3	N.D.	0.0050	23.03
08179	Total Xylenes	1330-20-7	N.D.	0.015	23.03
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.2	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.2	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	2.97	0.531	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	7.7	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-19-11 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275421  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 10:15 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M1911

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13320SLD026	11/22/2013 03:03	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13320SLD026	11/18/2013 03:00	Sherry L Morrow	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13322A31A	11/19/2013 23:43	Laura M Krieger	23.03
08179	BTEX by 8021	SW-846 8021B	1	13322A31A	11/19/2013 23:43	Laura M Krieger	23.03
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/08/2013 10:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220020A	11/21/2013 15:02	Glorines Suarez-Rivera	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220021A	11/21/2013 16:06	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220021A	11/18/2013 23:25	Karen L Beyer	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220020A	11/18/2013 23:25	Karen L Beyer	1
06955	Lead	SW-846 6010B	1	133225708005	11/21/2013 14:05	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708005	11/19/2013 09:25	Denise K Conners	1
00111	Moisture	SM 2540 G-1997	1	13322820003B	11/18/2013 21:00	Scott W Freisher	1

Sample Description: SB-20-10 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275422  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 10:50 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M2010

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>mg/kg</b>	<b>mg/kg</b>	
10725	Benzo(a)anthracene	56-55-3	0.0054	0.00071	1
10725	Benzo(a)pyrene	50-32-8	0.0023	0.00071	1
10725	Benzo(b)fluoranthene	205-99-2	0.0021	0.00071	1
10725	Benzo(k)fluoranthene	207-08-9	0.00072	0.00071	1
10725	Chrysene	218-01-9	0.0050	0.00036	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00071	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00071	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
02006	NWTPH-GX Soil C7-C12	n.a.	730	47	1087.11
<b>GC Volatiles SW-846 8021B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
08179	Benzene	71-43-2	0.26	0.24	1087.11
08179	Ethylbenzene	100-41-4	2.1	0.24	1087.11
08179	Toluene	108-88-3	0.96	0.24	1087.11
08179	Total Xylenes	1330-20-7	1.1	0.71	1087.11
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	65	3.2	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	46	3.2	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	5.80	0.542	1
<b>Wet Chemistry SM 2540 G-1997</b>			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	7.7	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



Sample Description: SB-20-10 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275422  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 10:50 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M2010

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13320SLI026	11/22/2013 00:30	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13320SLI026	11/18/2013 10:00	Anna E Stager	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13324A31A	11/21/2013 21:13	Laura M Krieger	1087.11
08179	BTEX by 8021	SW-846 8021B	1	13324A31A	11/21/2013 21:13	Laura M Krieger	1087.11
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/08/2013 10:50	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220020A	11/21/2013 15:23	Glorines Suarez-Rivera	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220021A	11/21/2013 16:29	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220021A	11/18/2013 23:25	Karen L Beyer	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220020A	11/18/2013 23:25	Karen L Beyer	1
06955	Lead	SW-846 6010B	1	133225708005	11/21/2013 14:09	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133225708005	11/19/2013 09:25	Denise K Connors	1
00111	Moisture	SM 2540 G-1997	1	13322820003B	11/18/2013 21:00	Scott W Freisher	1

**Sample Description:** SB-20-12 Grab Soil  
**Facility#** 211556  
 101 Mulford Road - Toledo, WA

**LL Sample #** SW 7275423  
**LL Group #** 1433626  
**Account #** 11255

**Project Name:** 211556

Collected: 11/08/2013 11:00 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M2012

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>mg/kg</b>	<b>mg/kg</b>	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00073	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00073	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00073	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00073	1
10725	Chrysene	218-01-9	N.D.	0.00036	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00073	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00073	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
02006	NWTPH-GX Soil C7-C12	n.a.	2.1	1	21.99
<b>GC Volatiles SW-846 8021B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
08179	Benzene	71-43-2	N.D.	0.0048	21.99
08179	Ethylbenzene	100-41-4	0.0077	0.0048	21.99
08179	Toluene	108-88-3	N.D.	0.0048	21.99
08179	Total Xylenes	1330-20-7	N.D.	0.014	21.99
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.3	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	6.07	0.535	1
<b>Wet Chemistry SM 2540 G-1997</b>			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	8.4	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
 Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-20-12 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275423  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 11:00 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M2012

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13320SLI026	11/22/2013 01:01	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13320SLI026	11/18/2013 10:00	Anna E Stager	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13324A31A	11/21/2013 22:26	Laura M Krieger	21.99
08179	BTEX by 8021	SW-846 8021B	1	13324A31A	11/21/2013 22:26	Laura M Krieger	21.99
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/08/2013 11:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220022A	11/21/2013 07:21	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220023A	11/20/2013 22:29	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220023A	11/18/2013 23:25	Karen L Beyer	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220022A	11/18/2013 23:25	Karen L Beyer	1
06955	Lead	SW-846 6010B	1	133235708001	11/20/2013 13:16	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133235708001	11/19/2013 22:35	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820003B	11/18/2013 21:00	Scott W Freisher	1

**Sample Description:** SB-20-14 Grab Soil  
**Facility#** 211556  
 101 Mulford Road - Toledo, WA

**LL Sample #** SW 7275424  
**LL Group #** 1433626  
**Account #** 11255

**Project Name:** 211556

Collected: 11/08/2013 11:10 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M2014

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>mg/kg</b>	<b>mg/kg</b>	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00075	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00075	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00075	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00075	1
10725	Chrysene	218-01-9	N.D.	0.00037	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00075	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00075	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
02006	NWTPH-GX Soil C7-C12	n.a.	N.D.	1.0	22.29
<b>GC Volatiles SW-846 8021B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
08179	Benzene	71-43-2	N.D.	0.0050	22.29
08179	Ethylbenzene	100-41-4	N.D.	0.0050	22.29
08179	Toluene	108-88-3	N.D.	0.0050	22.29
08179	Total Xylenes	1330-20-7	N.D.	0.015	22.29
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.4	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.4	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	3.94	0.543	1
<b>Wet Chemistry SM 2540 G-1997</b>			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	11.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
 Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-20-14 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275424  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 11:10 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M2014

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13320SLI026	11/22/2013 01:32	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13320SLI026	11/18/2013 10:00	Anna E Stager	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13324A31A	11/22/2013 00:15	Laura M Krieger	22.29
08179	BTEX by 8021	SW-846 8021B	1	13324A31A	11/22/2013 00:15	Laura M Krieger	22.29
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/08/2013 11:10	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220022A	11/21/2013 08:03	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220023A	11/20/2013 23:12	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220023A	11/18/2013 23:25	Karen L Beyer	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220022A	11/18/2013 23:25	Karen L Beyer	1
06955	Lead	SW-846 6010B	1	133235708001	11/20/2013 13:30	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133235708001	11/19/2013 22:35	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820004B	11/18/2013 22:35	Scott W Freisher	1

Sample Description: SB-21-6 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275425  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 11:15 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT216

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00082	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00082	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00082	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00082	1
10725	Chrysene	218-01-9	N.D.	0.00041	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00082	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00082	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	N.D.	1.6	33.02
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	N.D.	0.0082	33.02
08179	Ethylbenzene	100-41-4	N.D.	0.0082	33.02
08179	Toluene	108-88-3	N.D.	0.0082	33.02
08179	Total Xylenes	1330-20-7	N.D.	0.025	33.02
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.7	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	12	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.7	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	12	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	3.83	0.613	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	19.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-21-6 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275425  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 11:15 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT216

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13320SLI026	11/22/2013 02:03	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13320SLI026	11/18/2013 10:00	Anna E Stager	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13324A31A	11/22/2013 00:51	Laura M Krieger	33.02
08179	BTEX by 8021	SW-846 8021B	1	13324A31A	11/22/2013 00:51	Laura M Krieger	33.02
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/08/2013 11:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220022A	11/21/2013 08:24	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220023A	11/20/2013 23:33	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220023A	11/18/2013 23:25	Karen L Beyer	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220022A	11/18/2013 23:25	Karen L Beyer	1
06955	Lead	SW-846 6010B	1	133235708001	11/20/2013 13:34	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133235708001	11/19/2013 22:35	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820004B	11/18/2013 22:35	Scott W Freisher	1

Sample Description: SB-21-9 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275426  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 13:10 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT219

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			<b>mg/kg</b>	<b>mg/kg</b>	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00072	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00072	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00072	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00072	1
10725	Chrysene	218-01-9	0.00061	0.00036	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00072	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00072	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
02006	NWTPH-GX Soil C7-C12	n.a.	61	3.9	89.69
<b>GC Volatiles SW-846 8021B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
08179	Benzene	71-43-2	N.D.	0.020	22.42
08179	Ethylbenzene	100-41-4	0.049	0.0049	22.42
08179	Toluene	108-88-3	N.D.	0.069	22.42
08179	Total Xylenes	1330-20-7	0.12	0.015	22.42
Reporting limits were raised due to interference from the sample matrix.					
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	3.3	3.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			<b>mg/kg</b>	<b>mg/kg</b>	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.3	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			<b>mg/kg</b>	<b>mg/kg</b>	
06955	Lead	7439-92-1	4.42	0.528	1
<b>Wet Chemistry SM 2540 G-1997</b>			<b>%</b>	<b>%</b>	
00111	Moisture	n.a.	8.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



Sample Description: SB-21-9 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275426  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 13:10 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

MT219

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13320SLI026	11/22/2013 02:34	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13320SLI026	11/18/2013 10:00	Anna E Stager	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13324A31A	11/21/2013 21:50	Catherine J Schwarz	89.69
08179	BTEX by 8021	SW-846 8021B	1	13324A31B	11/22/2013 17:32	Marie D Beamenderfer	22.42
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/08/2013 13:10	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220022A	11/21/2013 08:46	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220023A	11/20/2013 23:54	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220023A	11/18/2013 23:25	Karen L Beyer	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220022A	11/18/2013 23:25	Karen L Beyer	1
06955	Lead	SW-846 6010B	1	133235708001	11/20/2013 13:39	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133235708001	11/19/2013 22:35	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820004B	11/18/2013 22:35	Scott W Freisher	1

Sample Description: SB-21-12 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275427  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 13:15 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M2112

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
<b>GC/MS Semivolatiles SW-846 8270C SIM</b>			mg/kg	mg/kg	
10725	Benzo(a)anthracene	56-55-3	N.D.	0.00073	1
10725	Benzo(a)pyrene	50-32-8	N.D.	0.00073	1
10725	Benzo(b)fluoranthene	205-99-2	N.D.	0.00073	1
10725	Benzo(k)fluoranthene	207-08-9	N.D.	0.00073	1
10725	Chrysene	218-01-9	N.D.	0.00037	1
10725	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00073	1
10725	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00073	1
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>			mg/kg	mg/kg	
02006	NWTPH-GX Soil C7-C12	n.a.	N.D.	1.2	26.71
<b>GC Volatiles SW-846 8021B</b>			mg/kg	mg/kg	
08179	Benzene	71-43-2	N.D.	0.0059	26.71
08179	Ethylbenzene	100-41-4	N.D.	0.0059	26.71
08179	Toluene	108-88-3	N.D.	0.0059	26.71
08179	Total Xylenes	1330-20-7	N.D.	0.018	26.71
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons modified</b>					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	11	1
<b>GC Petroleum ECY 97-602 NWTPH-Dx</b>			mg/kg	mg/kg	
<b>Hydrocarbons w/Si modified</b>					
12006	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.3	1
12006	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
The reverse surrogate, capric acid, is present at <1%.					
<b>Metals SW-846 6010B</b>			mg/kg	mg/kg	
06955	Lead	7439-92-1	4.62	0.543	1
<b>Wet Chemistry SM 2540 G-1997</b>			%	%	
00111	Moisture	n.a.	9.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

### General Sample Comments

State of Washington Lab Certification No. C457  
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-21-12 Grab Soil  
Facility# 211556  
101 Mulford Road - Toledo, WA

LL Sample # SW 7275427  
LL Group # 1433626  
Account # 11255

Project Name: 211556

Collected: 11/08/2013 13:15 by AL

Chevron

L4310

Submitted: 11/12/2013 09:15

6001 Bollinger Canyon Road

Reported: 11/27/2013 09:52

San Ramon CA 94583

M2112

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10725	SIM SVOA (microwave)	SW-846 8270C SIM	1	13320SLI026	11/22/2013 03:05	Mark A Clark	1
10811	BNA Soil Microwave SIM	SW-846 3546	1	13320SLI026	11/18/2013 10:00	Anna E Stager	1
02006	NWTPH-GX Soil C7-C12	ECY 97-602 NWTPH-Gx	1	13324A31A	11/22/2013 01:27	Laura M Krieger	26.71
08179	BTEX by 8021	SW-846 8021B	1	13324A31A	11/22/2013 01:27	Laura M Krieger	26.71
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201331833122	11/08/2013 13:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	133220022A	11/21/2013 09:07	Christine E Dolman	1
12006	NWTPH-Dx soil w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133220023A	11/21/2013 00:16	Christine E Dolman	1
12008	NW Dx soil w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133220023A	11/18/2013 23:25	Karen L Beyer	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	133220022A	11/18/2013 23:25	Karen L Beyer	1
06955	Lead	SW-846 6010B	1	133235708001	11/20/2013 13:43	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	133235708001	11/19/2013 22:35	Annamaria Stipkovits	1
00111	Moisture	SM 2540 G-1997	1	13322820004B	11/18/2013 22:35	Scott W Freisher	1

## Quality Control Summary

Client Name: Chevron  
Reported: 11/27/13 at 09:52 AM

Group Number: 1433626

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 13318SLE026	Sample number(s): 7275384-7275392							
Benzo(a)anthracene	N.D.	0.00067	mg/kg	99		83-119		
Benzo(a)pyrene	N.D.	0.00067	mg/kg	102		80-122		
Benzo(b)fluoranthene	N.D.	0.00067	mg/kg	109		82-135		
Benzo(k)fluoranthene	N.D.	0.00067	mg/kg	101		79-123		
Chrysene	N.D.	0.00033	mg/kg	102		84-113		
Dibenz(a,h)anthracene	N.D.	0.00067	mg/kg	101		78-124		
Indeno(1,2,3-cd)pyrene	N.D.	0.00067	mg/kg	100		77-124		
Batch number: 13319SLD026	Sample number(s): 7275393-7275407							
Benzo(a)anthracene	N.D.	0.00067	mg/kg	108		83-119		
Benzo(a)pyrene	N.D.	0.00067	mg/kg	109		80-122		
Benzo(b)fluoranthene	N.D.	0.00067	mg/kg	120		82-135		
Benzo(k)fluoranthene	N.D.	0.00067	mg/kg	109		79-123		
Chrysene	N.D.	0.00033	mg/kg	110		84-113		
Dibenz(a,h)anthracene	N.D.	0.00067	mg/kg	112		78-124		
Indeno(1,2,3-cd)pyrene	N.D.	0.00067	mg/kg	111		77-124		
Batch number: 13320SLD026	Sample number(s): 7275408-7275421							
Benzo(a)anthracene	N.D.	0.00067	mg/kg	107		83-119		
Benzo(a)pyrene	N.D.	0.00067	mg/kg	102		80-122		
Benzo(b)fluoranthene	N.D.	0.00067	mg/kg	114		82-135		
Benzo(k)fluoranthene	N.D.	0.00067	mg/kg	103		79-123		
Chrysene	N.D.	0.00033	mg/kg	102		84-113		
Dibenz(a,h)anthracene	N.D.	0.00067	mg/kg	103		78-124		
Indeno(1,2,3-cd)pyrene	N.D.	0.00067	mg/kg	103		77-124		
Batch number: 13320SLI026	Sample number(s): 7275422-7275427							
Benzo(a)anthracene	N.D.	0.00067	mg/kg	100		83-119		
Benzo(a)pyrene	N.D.	0.00067	mg/kg	100		80-122		
Benzo(b)fluoranthene	N.D.	0.00067	mg/kg	113		82-135		
Benzo(k)fluoranthene	N.D.	0.00067	mg/kg	98		79-123		
Chrysene	N.D.	0.00033	mg/kg	102		84-113		
Dibenz(a,h)anthracene	N.D.	0.00067	mg/kg	110		78-124		
Indeno(1,2,3-cd)pyrene	N.D.	0.00067	mg/kg	108		77-124		
Batch number: 13319A31A	Sample number(s): 7275384-7275398,7275400							
Benzene	N.D.	0.0050	mg/kg	100	103	80-120	3	30
Ethylbenzene	N.D.	0.0050	mg/kg	98	101	80-120	4	30
NWTPH-GX Soil C7-C12	N.D.	1.0	mg/kg	94	94	65-120	1	30
Toluene	N.D.	0.0050	mg/kg	97	100	80-120	3	30
Total Xylenes	N.D.	0.015	mg/kg	97	100	80-120	4	30
Batch number: 13319A31B	Sample number(s): 7275386,7275388-7275391,7275394,7275396,7275399,7275401-							

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron

Group Number: 1433626

Reported: 11/27/13 at 09:52 AM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
7275403								
Benzene	N.D.	0.0050	mg/kg	100	103	80-120	3	30
Ethylbenzene	N.D.	0.0050	mg/kg	98	101	80-120	4	30
NWTPH-GX Soil C7-C12	N.D.	1.0	mg/kg	94	94	65-120	1	30
Toluene	N.D.	0.0050	mg/kg	97	100	80-120	3	30
Total Xylenes	N.D.	0.015	mg/kg	97	100	80-120	4	30
Batch number: 13322A31A      Sample number(s): 7275401, 7275403-7275404, 7275408-7275409, 7275412-7275413, 7275419-7275421								
Benzene	N.D.	0.0050	mg/kg	99	100	80-120	1	30
Ethylbenzene	N.D.	0.0050	mg/kg	99	100	80-120	1	30
NWTPH-GX Soil C7-C12	N.D.	1.0	mg/kg	88	89	65-120	1	30
Toluene	N.D.	0.0050	mg/kg	98	101	80-120	3	30
Total Xylenes	N.D.	0.015	mg/kg	99	100	80-120	2	30
Batch number: 13322A31B      Sample number(s): 7275405-7275407, 7275409-7275411, 7275413-7275418								
Benzene	N.D.	0.0050	mg/kg	99	100	80-120	1	30
Ethylbenzene	N.D.	0.0050	mg/kg	99	100	80-120	1	30
NWTPH-GX Soil C7-C12	N.D.	1.0	mg/kg	88	89	65-120	1	30
Toluene	N.D.	0.0050	mg/kg	98	101	80-120	3	30
Total Xylenes	N.D.	0.015	mg/kg	99	100	80-120	2	30
Batch number: 13324A31A      Sample number(s): 7275406, 7275411, 7275422-7275427								
Benzene	N.D.	0.0050	mg/kg	109	107	80-120	3	30
Ethylbenzene	N.D.	0.0050	mg/kg	107	107	80-120	0	30
NWTPH-GX Soil C7-C12	N.D.	1.0	mg/kg	99	98	65-120	1	30
Toluene	N.D.	0.0050	mg/kg	106	105	80-120	1	30
Total Xylenes	N.D.	0.015	mg/kg	107	107	80-120	0	30
Batch number: 13324A31B      Sample number(s): 7275426								
Benzene	N.D.	0.0050	mg/kg	109	107	80-120	3	30
Ethylbenzene	N.D.	0.0050	mg/kg	107	107	80-120	0	30
Toluene	N.D.	0.0050	mg/kg	106	105	80-120	1	30
Total Xylenes	N.D.	0.015	mg/kg	107	107	80-120	0	30
Batch number: 133180026A      Sample number(s): 7275384-7275393								
Diesel Range Organics C12-C24	N.D.	3.0	mg/kg	76		60-120		
Heavy Range Organics C24-C40	N.D.	10.	mg/kg					
Batch number: 133200029A      Sample number(s): 7275394-7275403								
Diesel Range Organics C12-C24	N.D.	3.0	mg/kg	76		60-120		
Heavy Range Organics C24-C40	N.D.	10.	mg/kg					
Batch number: 133220009A      Sample number(s): 7275404-7275412								
Diesel Range Organics C12-C24	N.D.	3.0	mg/kg	73		60-120		
Heavy Range Organics C24-C40	N.D.	10.	mg/kg					
Batch number: 133220020A      Sample number(s): 7275413-7275422								
Diesel Range Organics C12-C24	N.D.	3.0	mg/kg	80		60-120		
Heavy Range Organics C24-C40	N.D.	10.	mg/kg					
Batch number: 133220022A      Sample number(s): 7275423-7275427								
Diesel Range Organics C12-C24	N.D.	3.0	mg/kg	93		60-120		
Heavy Range Organics C24-C40	N.D.	10.	mg/kg					
Batch number: 133180027A      Sample number(s): 7275384-7275393								

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron Group Number: 1433626  
Reported: 11/27/13 at 09:52 AM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
DRO C12-C24 w/Si Gel	N.D.	3.0	mg/kg	61		50-133		
HRO C24-C40 w/Si Gel	N.D.	10.	mg/kg					
Batch number: 133200030A	Sample number(s): 7275394-7275403							
DRO C12-C24 w/Si Gel	N.D.	3.0	mg/kg	81		50-133		
HRO C24-C40 w/Si Gel	N.D.	10.	mg/kg					
Batch number: 133220010A	Sample number(s): 7275404-7275412							
DRO C12-C24 w/Si Gel	N.D.	3.0	mg/kg	66		50-133		
HRO C24-C40 w/Si Gel	N.D.	10.	mg/kg					
Batch number: 133220021A	Sample number(s): 7275413-7275422							
DRO C12-C24 w/Si Gel	N.D.	3.0	mg/kg	70		50-133		
HRO C24-C40 w/Si Gel	N.D.	10.	mg/kg					
Batch number: 133220023A	Sample number(s): 7275423-7275427							
DRO C12-C24 w/Si Gel	N.D.	3.0	mg/kg	84		50-133		
HRO C24-C40 w/Si Gel	N.D.	10.	mg/kg					
Batch number: 133225708003	Sample number(s): 7275384-7275402							
Lead	N.D.	0.500	mg/kg	113		80-120		
Batch number: 133225708005	Sample number(s): 7275403-7275422							
Lead	N.D.	0.500	mg/kg	105		80-120		
Batch number: 133235708001	Sample number(s): 7275423-7275427							
Lead	N.D.	0.500	mg/kg	112		80-120		
Batch number: 13322820002A	Sample number(s): 7275384-7275393							
Moisture				100		99-101		
Batch number: 13322820002B	Sample number(s): 7275394-7275403							
Moisture				100		99-101		
Batch number: 13322820003A	Sample number(s): 7275404-7275413							
Moisture				100		99-101		
Batch number: 13322820003B	Sample number(s): 7275414-7275423							
Moisture				100		99-101		
Batch number: 13322820004B	Sample number(s): 7275424-7275427							
Moisture				100		99-101		

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 13318SLE026	Sample number(s): 7275384-7275392	UNSPK: P267556							
Benzo (a) anthracene	89	90	44-143	2	30				
Benzo (a) pyrene	93	97	44-140	5	30				

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 11/27/13 at 09:52 AM

Group Number: 1433626

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>	
Benzo(b)fluoranthene	98	98	26-142	0	30				
Benzo(k)fluoranthene	92	101	54-142	9	30				
Chrysene	93	94	29-148	1	30				
Dibenz(a,h)anthracene	98	102	20-137	4	30				
Indeno(1,2,3-cd)pyrene	95	99	17-136	4	30				
Batch number: 13319SLD026      Sample number(s): 7275393-7275407 UNSPK: P273843									
Benzo(a)anthracene	92	106	44-143	14	30				
Benzo(a)pyrene	76	111	44-140	30	30				
Benzo(b)fluoranthene	90	154*	26-142	39*	30				
Benzo(k)fluoranthene	97	106	54-142	9	30				
Chrysene	63	128	29-148	40*	30				
Dibenz(a,h)anthracene	76	78	20-137	3	30				
Indeno(1,2,3-cd)pyrene	63	70	17-136	11	30				
Batch number: 13320SLD026      Sample number(s): 7275408-7275421 UNSPK: 7275408									
Benzo(a)anthracene	106	107	44-143	0	30				
Benzo(a)pyrene	101	102	44-140	0	30				
Benzo(b)fluoranthene	113	113	26-142	1	30				
Benzo(k)fluoranthene	102	102	54-142	0	30				
Chrysene	99	101	29-148	2	30				
Dibenz(a,h)anthracene	102	103	20-137	1	30				
Indeno(1,2,3-cd)pyrene	102	103	17-136	1	30				
Batch number: 13320SLI026      Sample number(s): 7275422-7275427 UNSPK: P274722									
Benzo(a)anthracene	96	95	44-143	0	30				
Benzo(a)pyrene	91	92	44-140	1	30				
Benzo(b)fluoranthene	91	98	26-142	4	30				
Benzo(k)fluoranthene	123	123	54-142	0	30				
Chrysene	71	76	29-148	3	30				
Dibenz(a,h)anthracene	72	69	20-137	4	30				
Indeno(1,2,3-cd)pyrene	59	60	17-136	1	30				
Batch number: 133180026A      Sample number(s): 7275384-7275393 BKG: 7275384									
Diesel Range Organics C12-C24					N.D.	N.D.	0 (1)	20	
Heavy Range Organics C24-C40					N.D.	N.D.	0 (1)	20	
Batch number: 133200029A      Sample number(s): 7275394-7275403 BKG: 7275394									
Diesel Range Organics C12-C24					48	38	22*	20	
Heavy Range Organics C24-C40					26	19	29* (1)	20	
Batch number: 133220009A      Sample number(s): 7275404-7275412 BKG: 7275404									
Diesel Range Organics C12-C24					N.D.	N.D.	0 (1)	20	
Heavy Range Organics C24-C40					N.D.	N.D.	0 (1)	20	
Batch number: 133220020A      Sample number(s): 7275413-7275422 BKG: 7275414									
Diesel Range Organics C12-C24					22	14	44* (1)	20	
Heavy Range Organics C24-C40					N.D.	N.D.	0 (1)	20	
Batch number: 133220022A      Sample number(s): 7275423-7275427 BKG: 7275423									
Diesel Range Organics C12-C24					N.D.	N.D.	0 (1)	20	
Heavy Range Organics C24-C40					N.D.	N.D.	0 (1)	20	

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 11/27/13 at 09:52 AM

Group Number: 1433626

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>	
Batch number: 133180027A DRO C12-C24 w/Si Gel HRO C24-C40 w/Si Gel	Sample number(s): 7275384-7275393				BKG: 7275384	N.D.	N.D.	0 (1)	20	
						N.D.	N.D.	0 (1)	20	
Batch number: 133200030A DRO C12-C24 w/Si Gel HRO C24-C40 w/Si Gel	Sample number(s): 7275394-7275403				BKG: 7275394	36	32	14 (1)	20	
						N.D.	N.D.	0 (1)	20	
Batch number: 133220010A DRO C12-C24 w/Si Gel HRO C24-C40 w/Si Gel	Sample number(s): 7275404-7275412				BKG: 7275404	N.D.	N.D.	0 (1)	20	
						N.D.	N.D.	0 (1)	20	
Batch number: 133220021A DRO C12-C24 w/Si Gel HRO C24-C40 w/Si Gel	Sample number(s): 7275413-7275422				BKG: 7275414	13	6.7	66* (1)	20	
						N.D.	N.D.	0 (1)	20	
Batch number: 133220023A DRO C12-C24 w/Si Gel HRO C24-C40 w/Si Gel	Sample number(s): 7275423-7275427				BKG: 7275423	N.D.	N.D.	0 (1)	20	
						N.D.	N.D.	0 (1)	20	
Batch number: 133225708003 Lead	Sample number(s): 7275384-7275402				UNSPK: 7275390	BKG: 7275390	95 89	7.97	4	20
Batch number: 133225708005 Lead	Sample number(s): 7275403-7275422				UNSPK: 7275414	BKG: 7275414	100 100	3.98	20 (1)	20
Batch number: 133235708001 Lead	Sample number(s): 7275423-7275427				UNSPK: P279024	BKG: P279024	-227 -340	285	16	20
							(2) (2)			
Batch number: 13322820002A Moisture	Sample number(s): 7275384-7275393				BKG: 7275390	27.1	24.9	8*	5	
Batch number: 13322820002B Moisture	Sample number(s): 7275394-7275403				BKG: 7275395	9.9	10.4	4	5	
Batch number: 13322820003A Moisture	Sample number(s): 7275404-7275413				BKG: 7275409	6.6	6.4	3	5	
Batch number: 13322820003B Moisture	Sample number(s): 7275414-7275423				BKG: 7275417	23.0	24.7	7*	5	
Batch number: 13322820004B Moisture	Sample number(s): 7275424-7275427				BKG: P276499	15.8	14.8	7*	5	

### Surrogate Quality Control

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: Chevron  
Reported: 11/27/13 at 09:52 AM

Group Number: 1433626

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: SIM SVOA (microwave)

Batch number: 13318SLE026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7275384	98	93	96
7275385	94	89	97
7275386	96	89	95
7275387	108	95	99
7275388	108	95	110
7275389	97	92	77
7275390	92	91	89
7275391	102	97	103
7275392	101	94	100
Blank	93	89	94
LCS	96	92	98
MS	93	86	95
MSD	97	89	98

Limits: 54-129                      59-125                      61-125

Analysis Name: SIM SVOA (microwave)

Batch number: 13319SLD026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7275393	88	84	95
7275394	95	83	84
7275395	94	88	105
7275396	105	76	203*
7275397	95	89	106
7275398	93	86	103
7275399	103	92	118
7275400	94	87	104
7275401	103	91	184*
7275402	101	89	109
7275403	96	90	106
7275404	88	83	97
7275405	99	89	105
7275406	93	86	103
7275407	94	86	111
Blank	89	87	99
LCS	98	91	104
MS	88	76	96
MSD	98	90	111

Limits: 54-129                      59-125                      61-125

Analysis Name: SIM SVOA (microwave)

Batch number: 13320SLD026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
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\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 11/27/13 at 09:52 AM

Group Number: 1433626

### Surrogate Quality Control

7275408	84	84	95
7275409	93	90	113
7275410	90	87	98
7275411	89	87	100
7275412	87	86	96
7275413	89	86	97
7275414	90	87	105
7275415	84	83	93
7275416	91	88	109
7275417	78	76	90
7275418	88	88	96
7275419	88	85	97
7275420	90	87	99
7275421	87	87	97
Blank	84	85	91
LCS	90	91	102
MS	88	88	96
MSD	90	90	99

Limits: 54-129                      59-125                      61-125

Analysis Name: SIM SVOA (microwave)

Batch number: 13320SLI026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
--	------------------	--------------------	-------------------------

7275422	95	89	102
7275423	96	89	101
7275424	95	88	102
7275425	94	88	103
7275426	93	85	102
7275427	93	87	100
Blank	93	87	100
LCS	96	90	104
MS	109	93	342*
MSD	114	89	402*

Limits: 54-129                      59-125                      61-125

Analysis Name: Method 8021 Soil Master

Batch number: 13319A31A

	Trifluorotoluene-F	Trifluorotoluene-P
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7275384	89	89
7275385	85	88
7275386	95	
7275387	79	79
7275388		137
7275389		112
7275390	96	
7275391	97	
7275392	80	78
7275393	87	85
7275394	207*	
7275395	83	82
7275396		85

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 11/27/13 at 09:52 AM

Group Number: 1433626

### Surrogate Quality Control

7275397	78	78
7275398	90	90
7275400	76	78
Blank	103	98
LCS	99	94
LCSD	101	97

---

Limits: 61-122                      50-139

Analysis Name: Method 8021 Soil Master  
Batch number: 13319A31B  
                    Trifluorotoluene-F              Trifluorotoluene-P

7275386		83
7275388	240*	
7275389	130*	
7275390		92
7275391		83
7275394		105
7275396	129*	
7275399	93	99
7275401	385*	
7275402	211*	85
7275403	84	
Blank	99	98
LCS	99	94
LCSD	101	97

---

Limits: 61-122                      50-139

Analysis Name: Method 8021 Soil Master  
Batch number: 13322A31A  
                    Trifluorotoluene-F              Trifluorotoluene-P

7275401		336*
7275403		75
7275404	69	70
7275408	77	82
7275409		208*
7275412	68	72
7275413		213*
7275419	75	90
7275420	70	83
7275421	74	79
Blank	102	99
LCS	93	93
LCSD	84	93

---

Limits: 61-122                      50-139

Analysis Name: Method 8021 Soil Master  
Batch number: 13322A31B  
                    Trifluorotoluene-F              Trifluorotoluene-P

7275405	114	95
7275406		97

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 11/27/13 at 09:52 AM

Group Number: 1433626

### Surrogate Quality Control

7275407	421*	218*
7275409	258*	
7275410	77	81
7275411		188*
7275413	278*	
7275414	695*	535*
7275415	103	92
7275416	141*	94
7275417	72	75
7275418	77	82
Blank	98	104
LCS	93	93
LCSD	84	93

Limits: 61-122 50-139

Analysis Name: Method 8021 Soil Master  
Batch number: 13324A31A  
Trifluorotoluene-F Trifluorotoluene-P

7275406	104	
7275411	277*	
7275422	135*	115
7275423	77	84
7275424	89	98
7275425	90	98
7275426	96	
7275427	90	100
Blank	99	108
LCS	97	91
LCSD	95	90

Limits: 61-122 50-139

Analysis Name: Method 8021 Soil Master  
Batch number: 13324A31B  
Trifluorotoluene-P

7275426	84	
Blank	109	
LCS	91	
LCSD	90	

Limits: 50-139

Analysis Name: NWTPH-Dx soil  
Batch number: 133180026A  
Orthoterphenyl

7275384	74	
7275385	88	
7275386	80	
7275387	91	
7275388	101	
7275389	91	
7275390	77	

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 11/27/13 at 09:52 AM

Group Number: 1433626

### Surrogate Quality Control

7275391 95  
7275392 90  
7275393 92  
Blank 92  
DUP 83  
LCS 92

---

Limits: 50-150

Analysis Name: NWTPH-Dx soil w/ 10g Si Gel  
Batch number: 133180027A  
Orthoterphenyl

---

7275384 61  
7275385 68  
7275386 60  
7275387 77  
7275388 84  
7275389 75  
7275390 68  
7275391 79  
7275392 74  
7275393 78  
Blank 79  
DUP 70  
LCS 78

---

Limits: 50-150

Analysis Name: NWTPH-Dx soil  
Batch number: 133200029A  
Orthoterphenyl

---

7275394 104  
7275395 96  
7275396 119  
7275397 95  
7275398 102  
7275399 93  
7275400 97  
7275401 109  
7275402 117  
7275403 95  
Blank 99  
DUP 91  
LCS 93

---

Limits: 50-150

Analysis Name: NWTPH-Dx soil w/ 10g Si Gel  
Batch number: 133200030A  
Orthoterphenyl

---

7275394 93  
7275395 79  
7275396 116

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 11/27/13 at 09:52 AM

Group Number: 1433626

### Surrogate Quality Control

7275397	88
7275398	98
7275399	85
7275400	74
7275401	104
7275402	111
7275403	94
Blank	91
DUP	90
LCS	100

---

Limits: 50-150

Analysis Name: NWTTPH-Dx soil  
Batch number: 133220009A  
Orthoterphenyl

7275404	89
7275405	96
7275406	93
7275407	99
7275408	92
7275409	97
7275410	91
7275411	92
7275412	94
Blank	93
DUP	46*
LCS	93

---

Limits: 50-150

Analysis Name: NWTTPH-Dx soil w/ 10g Si Gel  
Batch number: 133220010A  
Orthoterphenyl

7275404	74
7275405	83
7275406	77
7275407	91
7275408	83
7275409	88
7275410	76
7275411	82
7275412	80
Blank	84
DUP	41*
LCS	87

---

Limits: 50-150

Analysis Name: NWTTPH-Dx soil  
Batch number: 133220020A  
Orthoterphenyl

7275413	103
---------	-----

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Chevron  
Reported: 11/27/13 at 09:52 AM

Group Number: 1433626

### Surrogate Quality Control

7275414	107
7275415	105
7275416	110
7275417	98
7275418	101
7275419	106
7275420	103
7275421	105
7275422	107
Blank	102
DUP	105
LCS	102

---

Limits: 50-150

Analysis Name: NWTPH-Dx soil w/ 10g Si Gel  
Batch number: 133220021A  
Orthoterphenyl

7275413	90
7275414	93
7275415	105
7275416	94
7275417	86
7275418	83
7275419	87
7275420	63
7275421	103
7275422	87
Blank	89
DUP	81
LCS	86

---

Limits: 50-150

Analysis Name: NWTPH-Dx soil  
Batch number: 133220022A  
Orthoterphenyl

7275423	110
7275424	99
7275425	107
7275426	101
7275427	107
Blank	100
DUP	107
LCS	112

---

Limits: 50-150

Analysis Name: NWTPH-Dx soil w/ 10g Si Gel  
Batch number: 133220023A  
Orthoterphenyl

7275423	96
7275424	95

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

**Quality Control Summary**Client Name: Chevron  
Reported: 11/27/13 at 09:52 AM

Group Number: 1433626

**Surrogate Quality Control**

7275425	96
7275426	94
7275427	98
Blank	93
DUP	91
LCS	105

Limits: 50-150

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



# Chevron Northwest Region Analysis Request/Chain of Custody



**Lancaster Laboratories**

Acct. # 11255

For Lancaster Laboratories use only  
 Group # 1433626 Sample # 1275384-421  
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks											
Facility # <u>211556</u> <u>211556</u> <u>NWENV-02115560-0804</u> Site Address <u>101 Mulford Rd, Toledo, WA</u> Chevron PM <u>Mark Horne</u> Lead Consultant <u>Leidos</u> Consultant/Office <u>Bothell</u> Consultant Project Mgr. <u>R. Shropshire</u> Consultant Phone # <u>425-482-3323</u> Sampler <u>A. Lumbriek &amp; G. Civeros</u>				<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air				Total Number of Containers <input checked="" type="checkbox"/> BTEX + MTBE 8021 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> Naphth 8260 full scan Oxygenates NWTPH GX NWTPH DX <input checked="" type="checkbox"/> Silica Gel Cleanup <input checked="" type="checkbox"/> Lead Total <input checked="" type="checkbox"/> Diss. <input type="checkbox"/> Method <u>Edco</u> WAVPH <input type="checkbox"/> WAEPH <input type="checkbox"/> <u>NWTPH DX No Silicagel</u> <u>CPAHs 8270 SIM</u> <u>Meistene</u>										SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits											
2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021	8260	Naphth	Oxygenates	NWTPH GX	NWTPH DX	Silica Gel Cleanup	Lead	Total	Diss.	Method	WAVPH	WAEPH	8021 MTBE Confirmation	Confirm MTBE + Naphthalene	Confirm highest hit by 8260	Confirm all hits by 8260	Run _____ oxy's on highest hit	Run _____ oxy's on all hits	
Date	Time																												
<u>SB-9-4</u>	<u>11/4/13</u>	<u>1530</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>4</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>SB-10-2</u>	<u>11/4/13</u>	<u>1545</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>4</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>SB-15-2</u>	<u>11/5/13</u>	<u>1515</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>4</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>SB-14-7</u>	<u>11/5/13</u>	<u>1610</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>4</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>SB-15-6</u>	<u>11/6/13</u>	<u>0850</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>4</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>SB-10-6</u>	<u>11/6/13</u>	<u>1200</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>4</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>SB-16-2</u>	<u>11/6/13</u>	<u>1215</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>4</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>SB-16-6</u>	<u>11/6/13</u>	<u>1350</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>4</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>SB-11-10</u>	<u>11/6/13</u>	<u>1440</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>4</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>SB-11-12.5</u>	<u>11/6/13</u>	<u>1515</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>4</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>SB-17-2</u>	<u>11/6/13</u>	<u>1530</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>4</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>SB-12-9.5</u>	<u>11/6/13</u>	<u>1600</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>4</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>SB-12-10.5</u>	<u>11/6/13</u>	<u>1615</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>4</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7 Turnaround Time Requested (TAT) (please circle)</b> <input checked="" type="checkbox"/> Standard 5 day <input type="checkbox"/> 4 day <input type="checkbox"/> 72 hour <input type="checkbox"/> 48 hour <input type="checkbox"/> 24 hour				Relinquished by <u>[Signature]</u> Date <u>11/11/13</u> Time <u>1330</u>				Received by _____ Date _____ Time _____				<b>9</b>																	
<b>8 Data Package Options (please circle if required)</b> <input type="checkbox"/> Type I - Full <input type="checkbox"/> Type VI (Raw Data)				Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx _____ Other _____				Received by <u>[Signature]</u> Date <u>11/12/13</u> Time <u>0915</u>				Temperature Upon Receipt <u>11-0.5</u> °C    Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																	

# Chevron Northwest Region Analysis Request/Chain of Custody



**Lancaster Laboratories**

Acct. # 11255

For Lancaster Laboratories use only  
 Group # 1433626 Sample # 1275384-427  
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks										
Facility # <u>21556</u> <u>211556</u>		WBS <u>0804</u>		<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Oil <input type="checkbox"/> Air	<input type="checkbox"/> Ground <input type="checkbox"/> NPDES <input type="checkbox"/> Air	<input type="checkbox"/> Surface <input type="checkbox"/> Air	Total Number of Containers <input checked="" type="checkbox"/> 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> 8260 full scan	<input type="checkbox"/> Naphthn <input type="checkbox"/> 8260	Oxygenates NWTPH GX	<input checked="" type="checkbox"/> Silica Gel Cleanup Lead <input checked="" type="checkbox"/> Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method <input type="checkbox"/>	WAVPH <input type="checkbox"/> WAEPH <input type="checkbox"/>	NWTPH DX <input checked="" type="checkbox"/> No Silica Gel PAHs <input checked="" type="checkbox"/> 8270 SIM MOISTURE	SCR #: _____	<input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy's on highest hit <input type="checkbox"/> Run ___ oxy's on all hits														
Site Address <u>21556 211556 NWENV-02115560-0802</u>		R55																										
Chevron PM <u>Mark Horne</u>		Lead Consultant <u>Leidos</u>																										
Consultant/Office <u>Bothell</u>		Consultant Project Mgr. <u>R. Shropshire</u>																										
Consultant Phone # <u>425-482-3323</u>		Sampler <u>Adenbrück / G. Cisneros</u>																										
Sample Identification		Collected																										
		Date	Time	Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	8260 full scan	Oxygenates	NWTPH GX	NWTPH DX	Lead	Total	Diss.	Method	WAVPH	WAEPH	NWTPH DX	No Silica Gel	PAHs	8270 SIM	MOISTURE			
<u>SB-12-12</u>		<u>11/6/13</u>	<u>1620</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>4</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>		
<u>SB-12-13.5</u>		<u>11/6/13</u>	<u>1630</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>4</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>		
<u>SB-13-10.5</u>		<u>11/7/13</u>	<u>0830</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>4</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>		
<u>SB-13-12.5</u>		<u>11/7/13</u>	<u>0840</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>4</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>		
<u>SB-14-9.5</u>		<u>11/7/13</u>	<u>0945</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>4</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>		
<u>DUP-1-110713</u>		<u>11/7/13</u>	<u>--</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>4</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>		
<u>SB-14-12.5</u>		<u>11/7/13</u>	<u>1000</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>4</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>		
<u>SB-14-14</u>		<u>11/7/13</u>	<u>1010</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>4</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>		
<u>SB-16-8</u>		<u>11/7/13</u>	<u>1230</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>4</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>		
<u>SB-16-10</u>		<u>11/7/13</u>	<u>1245</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>4</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>		
<u>SB-9-9 SB-10-9</u>		<u>11/7/13</u>	<u>1320</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>4</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>		
<u>SB-9-13 SB-10-13</u>		<u>11/7/13</u>	<u>1330</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>4</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>		
<u>SB-15-9</u>		<u>11/7/13</u>	<u>1415</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>4</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>		
7 Turnaround Time Requested (TAT) (please circle) Standard <u>5</u> day    4 day 72 hour    48 hour    24 hour				Relinquished by <u>[Signature]</u>				Date <u>11/6/13</u>		Time <u>1330</u>		Received by <u>[Signature]</u>				Date		Time										
				Relinquished by _____				Date _____		Time _____		Received by _____				Date		Time										
8 Data Package Options (please circle if required) Type I - Full    Type VI (Raw Data)				Relinquished by Commercial Carrier:				UPS <input checked="" type="checkbox"/> FedEx _____    Other _____				Received by <u>[Signature]</u>				Date <u>11/12/13</u>		Time <u>0915</u>										
				Temperature Upon Receipt <u>0.5-1.1</u> °C				Custody Seals Intact? <u>Yes</u> No																				

# Chevron Northwest Region Analysis Request/Chain of Custody



**Lancaster Laboratories**

Acct. # 11255

For Lancaster Laboratories use only  
 Group # 1433626 Sample # 7075384-427  
 Instructions on reverse side correspond with circled numbers.

<b>1 Client Information</b>			<b>4 Matrix</b>			<b>5 Analyses Requested</b>										SCR #: _____																																																																																																																																																																																																																																																																																																																																																			
Facility # <u>211556</u> WBS NWENW-02115560-0804 Site Address <u>101 Mulford Road, Toledo, WA</u> Chevron PM <u>Mark Horne</u> Lead Consultant Consultant/Office <u>Bothe II</u> Consultant Project Mgr. <u>R. Shropshire</u> Consultant Phone # <u>425-482-3323</u> Sampler <u>A. Lembrick / G. Cisneros</u>			Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/>			Total Number of Containers BTEX + MTBE 8021 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan Oxygenates NWTPH GX NWTPH DX <input checked="" type="checkbox"/> Silica Gel Cleanup <input checked="" type="checkbox"/> Lead Total <input checked="" type="checkbox"/> Diss. <input type="checkbox"/> Method <u>Gold</u> WAVPH <input type="checkbox"/> WAEPH <input type="checkbox"/> <u>NWTPH Dx No Silica Gel</u> <u>CPAHs 8270 SIM</u> <u>Noistone</u>										<input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits																																																																																																																																																																																																																																																																																																																																																			
<b>2 Sample Identification</b>			<b>3 Composite</b>			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2">Sample Identification</th> <th colspan="2">Collected</th> <th rowspan="2">Grab</th> <th rowspan="2">Soil</th> <th rowspan="2">Water</th> <th rowspan="2">Oil</th> <th rowspan="2">Total Number of Containers</th> <th rowspan="2">BTEX + MTBE 8021</th> <th rowspan="2">8260</th> <th rowspan="2">Naphth</th> <th rowspan="2">8260 full scan</th> <th rowspan="2">Oxygenates</th> <th rowspan="2">NWTPH GX</th> <th rowspan="2">NWTPH DX</th> <th rowspan="2">Silica Gel Cleanup</th> <th rowspan="2">Lead Total</th> <th rowspan="2">Diss.</th> <th rowspan="2">Method</th> <th rowspan="2">WAVPH</th> <th rowspan="2">WAEPH</th> <th rowspan="2">NWTPH Dx No Silica Gel</th> <th rowspan="2">CPAHs 8270 SIM</th> <th rowspan="2">Noistone</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> <tr><td>SB-15-13</td><td>11/7/13</td><td>1440</td><td>/</td><td>/</td><td></td><td></td><td>4</td><td>/</td><td></td><td></td><td></td><td></td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td></td><td></td><td>/</td><td>/</td><td>/</td></tr> <tr><td>SB-18-8</td><td>11/7/13</td><td>1530</td><td>/</td><td>/</td><td></td><td></td><td>4</td><td>/</td><td></td><td></td><td></td><td></td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td></td><td></td><td>/</td><td>/</td><td>/</td></tr> <tr><td>SB-18-12</td><td>11/7/13</td><td>1540</td><td>/</td><td>/</td><td></td><td></td><td>4</td><td>/</td><td></td><td></td><td></td><td></td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td></td><td></td><td>/</td><td>/</td><td>/</td></tr> <tr><td>DUP-2-110713</td><td>11/7/13</td><td>--</td><td>/</td><td>/</td><td></td><td></td><td>4</td><td>/</td><td></td><td></td><td></td><td></td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td></td><td></td><td>/</td><td>/</td><td>/</td></tr> <tr><td>SB-17-8</td><td>11/8/13</td><td>0820</td><td>/</td><td>/</td><td></td><td></td><td>4</td><td>/</td><td></td><td></td><td></td><td></td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td></td><td></td><td>/</td><td>/</td><td>/</td></tr> <tr><td>SB-17-11</td><td>11/8/13</td><td>0830</td><td>/</td><td>/</td><td></td><td></td><td>4</td><td>/</td><td></td><td></td><td></td><td></td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td></td><td></td><td>/</td><td>/</td><td>/</td></tr> <tr><td>SB-9-9</td><td>11/8</td><td>0900</td><td>/</td><td>/</td><td></td><td></td><td>4</td><td>/</td><td></td><td></td><td></td><td></td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td></td><td></td><td>/</td><td>/</td><td>/</td></tr> <tr><td>SB-20-2</td><td>11/8</td><td>0910</td><td>/</td><td>/</td><td></td><td></td><td>4</td><td>/</td><td></td><td></td><td></td><td></td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td></td><td></td><td>/</td><td>/</td><td>/</td></tr> <tr><td>SB-9-11</td><td>11/8</td><td>0915</td><td>/</td><td>/</td><td></td><td></td><td>4</td><td>/</td><td></td><td></td><td></td><td></td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td></td><td></td><td>/</td><td>/</td><td>/</td></tr> <tr><td>DUP-3-110813</td><td>11/8</td><td>0915</td><td>/</td><td>/</td><td></td><td></td><td>4</td><td>/</td><td></td><td></td><td></td><td></td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td></td><td></td><td>/</td><td>/</td><td>/</td></tr> <tr><td>SB-19-9</td><td>11/8</td><td>1000</td><td>/</td><td>/</td><td></td><td></td><td>4</td><td>/</td><td></td><td></td><td></td><td></td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td></td><td></td><td>/</td><td>/</td><td>/</td></tr> <tr><td>SB-19-11</td><td>11/8</td><td>1015</td><td>/</td><td>/</td><td></td><td></td><td>4</td><td>/</td><td></td><td></td><td></td><td></td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td></td><td></td><td>/</td><td>/</td><td>/</td></tr> <tr><td>SB-20-10</td><td>11/8</td><td>1050</td><td>/</td><td>/</td><td></td><td></td><td>4</td><td>/</td><td></td><td></td><td></td><td></td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td></td><td></td><td>/</td><td>/</td><td>/</td></tr> </table>										Sample Identification	Collected		Grab	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021	8260	Naphth	8260 full scan	Oxygenates	NWTPH GX	NWTPH DX	Silica Gel Cleanup	Lead Total	Diss.	Method	WAVPH	WAEPH	NWTPH Dx No Silica Gel	CPAHs 8270 SIM	Noistone	Date	Time	SB-15-13	11/7/13	1440	/	/			4	/					/	/	/	/	/	/			/	/	/	SB-18-8	11/7/13	1530	/	/			4	/					/	/	/	/	/	/			/	/	/	SB-18-12	11/7/13	1540	/	/			4	/					/	/	/	/	/	/			/	/	/	DUP-2-110713	11/7/13	--	/	/			4	/					/	/	/	/	/	/			/	/	/	SB-17-8	11/8/13	0820	/	/			4	/					/	/	/	/	/	/			/	/	/	SB-17-11	11/8/13	0830	/	/			4	/					/	/	/	/	/	/			/	/	/	SB-9-9	11/8	0900	/	/			4	/					/	/	/	/	/	/			/	/	/	SB-20-2	11/8	0910	/	/			4	/					/	/	/	/	/	/			/	/	/	SB-9-11	11/8	0915	/	/			4	/					/	/	/	/	/	/			/	/	/	DUP-3-110813	11/8	0915	/	/			4	/					/	/	/	/	/	/			/	/	/	SB-19-9	11/8	1000	/	/			4	/					/	/	/	/	/	/			/	/	/	SB-19-11	11/8	1015	/	/			4	/					/	/	/	/	/	/			/	/	/	SB-20-10	11/8	1050	/	/			4	/					/	/	/	/	/	/			/	/	/	<b>6 Remarks</b>	
Sample Identification	Collected		Grab	Soil	Water												Oil	Total Number of Containers																						BTEX + MTBE 8021	8260	Naphth	8260 full scan	Oxygenates	NWTPH GX	NWTPH DX	Silica Gel Cleanup	Lead Total	Diss.	Method	WAVPH	WAEPH	NWTPH Dx No Silica Gel	CPAHs 8270 SIM	Noistone																																																																																																																																																																																																																																																																																																												
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<b>7 Turnaround Time Requested (TAT) (please circle)</b>			Relinquished by <u>[Signature]</u>			Date <u>11/11/13</u>		Time <u>1330</u>		Received by <u>[Signature]</u>		Date		Time <b>9</b>																																																																																																																																																																																																																																																																																																																																																					
Standard <input checked="" type="checkbox"/> 5 day 4 day 72 hour 48 hour 24 hour			Relinquished by _____			Date _____		Time _____		Received by _____		Date _____		Time _____																																																																																																																																																																																																																																																																																																																																																					
<b>8 Data Package Options (please circle if required)</b>			Relinquished by Commercial Carrier:			Date		Time		Received by <u>[Signature]</u>		Date <u>11/12/13</u>		Time <u>0915</u>																																																																																																																																																																																																																																																																																																																																																					
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# Chevron Northwest Region Analysis Request/Chain of Custody



**Lancaster Laboratories**

Acct. # 11255 <sup>11/13/13</sup> Group # 1433626 Sample # 7275384-427  
 For Lancaster Laboratories use only  
 Instructions on reverse side correspond with circled numbers.

SCR #: 140481

1 Client Information			4 Matrix			5 Analyses Requested						6 Remarks														
Facility # <u>211556</u> WBS <u>NWENV-0215570-0804</u>			Sediment <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/>			Total Number of Containers BTEX + MTBE 8021 <input checked="" type="checkbox"/> 8260 <input checked="" type="checkbox"/> Napth <input type="checkbox"/> 8260 full scan Oxygenates NWTPH GX NWTPH DX <input checked="" type="checkbox"/> Silica Gel Cleanup <input checked="" type="checkbox"/> Lead Total <input checked="" type="checkbox"/> Diss. <input type="checkbox"/> Method <u>GC/MS</u> WAVPH <input type="checkbox"/> WAEPP <input type="checkbox"/> <u>NWPH-D No Silica Gel</u> <u>CPHS 8270SIM</u> <u>Moisture</u>																				
Site Address <u>101 Mulford Road, Toledo, WA</u>			Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/>																							
Chevron PM <u>Mark Horne</u> Lead Consultant <u>Leidos</u>																										
Consultant/Office <u>Bothell, WA</u>																										
Consultant Project Mgr. <u>R. Shropshire</u>																										
Consultant Phone # <u>425-482-3323</u>																										
Sampler <u>A. Lembeck, G. Cisneros</u>																										
2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	8260	8021	Napth	Oxygenates	NWTPH GX	NWTPH DX	Silica Gel Cleanup	Lead	Total	Diss.	Method	WAVPH	WAEPP			
Date	Time	Soil	Water																							Oil
<u>SB-20-12</u>	<u>11/8</u>	<u>1100</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>SB-20-14</u>	<u>↓</u>	<u>1110</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>SB-21-6</u>	<u>↓</u>	<u>1115</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>SB-21-9</u>	<u>↓</u>	<u>1310</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>SB-21-12</u>	<u>↓</u>	<u>1315</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

<b>7 Turnaround Time Requested (TAT) (please circle)</b> Standard <input checked="" type="radio"/> 5 day    4 day 72 hour    48 hour    24 hour	Relinquished by <u>[Signature]</u>	Date <u>10/7/13</u>	Time <u>13:00</u>	Received by <u>[Signature]</u>	Date	Time
	Relinquished by <u>[Signature]</u>	Date <u>11/11/13</u>	Time <u>1330</u>	Received by <u>[Signature]</u>	Date	Time
<b>8 Data Package Options (please circle if required)</b> Type I - Full    Type VI (Raw Data)	Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Other <input type="checkbox"/>		Received by <u>[Signature]</u>		Date <u>11/12/13</u>	Time <u>0915</u>
	Temperature Upon Receipt <u>0.5-1.1 °C</u>			Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No		

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

**Inorganic Qualifiers**

<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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