

**SITE SUMMARY REPORT
FORMER UNION OIL BULK PLANT NO. 306490
333 6th Avenue
Woodland, Washington**

February 2013

**Prepared for:
Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, California 94583**

**Prepared by:
SAIC Energy, Environment & Infrastructure, LLC
18912 North Creek Parkway, Suite 101
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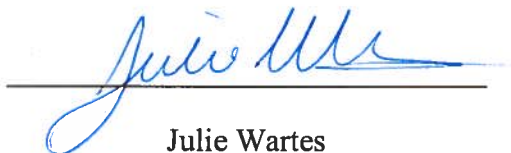


SITE SUMMARY REPORT
FORMER UNION OIL BULK PLANT NO. 306490
333 6th Avenue
Woodland, Washington

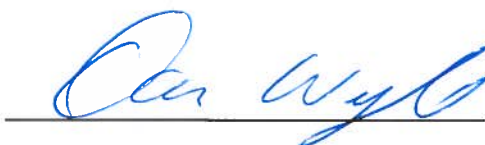
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SITE SUMMARY REPORT FORMER UNION OIL BULK PLANT NO. 30-6490

1. INTRODUCTION

This report summarizes the activities and findings of recent site investigation and remediation activities performed by SAIC Energy, Environment & Infrastructure, LLC (SAIC) on behalf of Chevron Environmental Management Company (CEMC) at former Union Oil Bulk Plant No. 306490 (the site), located at 333 6th Avenue Woodland, Washington. Activities were performed as an independent action with the objective of further defining the nature and extent of petroleum impacts and to remove petroleum impacted soil above the Model Toxics Control Act (MTCA) cleanup levels.

2. SITE SETTING AND BACKGROUND

2.1 SITE DESCRIPTION

The property is currently owned by Chevron Inc. and is located in Cowlitz County. Nearby uses include commercial, agricultural and rural residential. The property is surrounded by the former Fleetwood Homes site to the north, south, and east, and by the Burlington Northern Sante Fe (BNSF) rail line to the west.

2.2 SITE HISTORY

The former Union Oil bulk plant operated from approximately 1926 to 1992. Former structures included a warehouse, pump house, garage, two railroad spurs, five above-ground storage tanks (ASTs) ranging in size from 5,000 to 20,000 gallons, three 2-inch-diameter above-ground product delivery lines, and associated dispenser pumps (Figure 1). In 1992, the bulk plant closed and all facilities were removed.

3. SUMMARY OF PAST SITE INVESTIGATIONS

Several environmental investigations were performed at the site between 1992 and 2005. Historical soil and groundwater analytical data are summarized in Tables 1 and 2. The results of these investigations were reported by Professional Service Industries Inc., EMCON Northwest, Inc., Maul Foster & Alongi, Inc, and ENSR International. A chronological summary of site investigations and remedial actions are included in the *May 2012 SAIC Site Investigation Report* included in Appendix A. Activities relevant to this report are briefly described below:

A remedial excavation conducted in 2001 removed approximately 1,030 cubic yards of petroleum impacted soil from three locations. Confirmation sidewall and floor samples document the extent of each excavation. Exported soil was transported to the Regional Disposal Company landfill in Roosevelt, Washington for disposal.

Groundwater monitoring results for MW-1 indicated petroleum impacted media remained onsite and additional remedial activities were necessary. In May and June of 2005 approximately 224,000 gallons of groundwater from monitoring well MW-1 was treated onsite using an

infiltration trench with underground injection control. Groundwater samples collected during this removal process indicated an absence or lower concentration of gasoline and gasoline-related constituents. However, subsequent sampling indicated that these concentrations had returned to levels encountered prior to this event.

Monitoring well MW-1 was decommissioned by chipping in place in September 2005. This was completed in anticipation of a “hot-spot” soil excavation planned for this area, which was never performed.

In November 2005, the Department of Ecology issued an opinion letter addressing previous independent remedial actions performed at the site. The letter superseded a 2002 determination of no-further-action, with a restrictive covenant on groundwater, and determined further characterization and remedial action was necessary.

4. 2012 SITE INVESTIGATION

In February 2012, an additional site investigation was completed to resolve data gaps and evaluate current site conditions. Analytical results indicated the extent of soil impacts exceeding MTCA Method A cleanup levels was present in one location, SB-9, at a depth of 13 ft bgs. A 2005 soil investigation indicated gasoline-range hydrocarbons were also present at concentrations over regulatory cleanup levels at a depth of 13 ft bgs in nearby GP-11. Both impacted soil borings were located down gradient from excavation #1, between the former dispenser pump/AST area and MW-1. This information revealed impacted soil was still present in a localized area onsite.

Historical groundwater data is summarized in Table 2 and indicates concentrations of petroleum hydrocarbons constituents have consistently been below MTCA Method A cleanup levels in all remaining monitoring well locations, with the exception of MW-1. The last sample collected from MW-1 in July 2005 exceeded MTCA Method A cleanup levels for gasoline-range hydrocarbons. The spatial distribution of groundwater impacts as well as the “clean boundary” of down gradient wells, indicates petroleum constituents have not migrated offsite. Additional information is included in the *May 2012 SAIC Site Investigation Report* as Appendix A.

5. 2012 GROUNDWATER MONITORING WELL INSTALLATION

In an effort to re-evaluate current groundwater conditions and to better address soil and groundwater data gaps in the vicinity of MW-1, groundwater monitoring well (MW-1A) was installed in August 2012, approximately five feet east of abandoned MW-1. At the time of installation, depth to water measurements in nearby MW-5 was 9.78 feet below ground surface (bgs). The monitoring well was screened from 5-15 feet bgs, the boring log is included in Appendix B.

During MW-1A installation, field screening indicated petroleum impacts were not present at this location. One soil sample was collected at the top of the smear zone, 9 feet bgs. A groundwater sample was also collected from MW-1A. Laboratory analytical results from this location were non-detect in each media, data is included in Table 1 and 2. Analytical results are included in Appendix C.

6. 2012 REMEDIAL EXCAVATION

6.1 SOIL EXCAVATION

Soil excavation activities were conducted on September 11, 2012. An area roughly 15ft by 20 ft. was excavated to a final depth of 17 ft. bgs. Clean overburden was segregated to an approximate depth of 11 feet bgs and stockpiled for re-use as backfill. Approximately 120 cubic yards of soil was removed from the excavation. Approximately 30 cubic yards of petroleum impacted soil was transported to the Waste Management Hillsboro Landfill. The excavation was backfilled to grade with quarry spalls and overburden.

6.2 SOIL SAMPLING

Two excavation sidewall samples (EX-1-12 and EX-2-13) were collected from the south and southeast limit of the excavation. A third sample (EX-3-16) was collected from the bottom of the excavation, below the groundwater interface, at 16 feet bgs. Borings SB-1, SB-6, SB-8 and GP-8 were used as additional sidewall confirmation samples.

Per the Department of Ecology's soil-reuse guidance, three samples (Stockpile-1, Stockpile-2, and Stockpile-3) were collected from approximately 95 cubic yards of overburden. Analytical sample results indicated all samples were non-detect and the soil was suitable for backfill.

6.3 LABORATORY ANALYSIS

Samples from the limits of the excavation and re-use stockpile were submitted to the onsite laboratory, Environmental Services Network Northwest (ESN NW), an accredited chemical analytical laboratory. Samples were analyzed for gasoline-range, diesel-range, and oil-range hydrocarbons by Ecology Method NWTPH-Gx, NWTPH Dx, and BTEX compounds by USEPA Method 8260.

6.4 LABORATORY RESULTS

Confirmation soil samples collected from the excavation and re-use stockpile are summarized in Table 1. Laboratory analytical reports and chain of custody documents are included in Appendix D. Analytical results were non-detect for all samples.

7. TERRESTRIAL ECOLOGICAL EVALUATION

All impacted soil above the point of compliance (as established under WAC 173-340-7490(4)) has been removed from the Site. Therefore, under WAC 173-340-7491 (1) (a) the site is excluded from a terrestrial ecological evaluation.

8. CONCLUSIONS

As summarized in Section 3.0, remedial activities completed in 2001 removed approximately 1,030 cubic yards of soil exceed MTCA Method A cleanup levels. Subsequent pump and treat activities were ineffective at resolving residual groundwater impacts in monitoring well MW-1. Supplemental site investigation activities completed in early 2012 indicated a limited volume of soil exceeding MTCA Method A CULs remained onsite. Approximately 30 cubic yards of

impacted soil was excavated from the site in September 2012. As a result of these remedial activities, soils onsite now meet MTCA Method A cleanup levels. Groundwater samples collected from recently installed MW-1A were non-detect for all constituents and document residual groundwater impacts are no longer present. It is Chevron's opinion that the Site now meets MTCA CULs a review from WDOE for the issuance of a no further action determination is requested.

REPORT LIMITATIONS

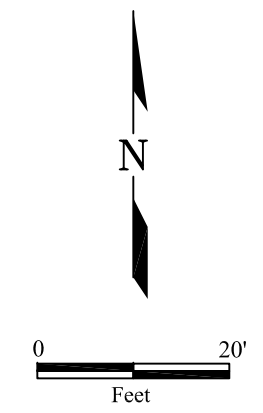
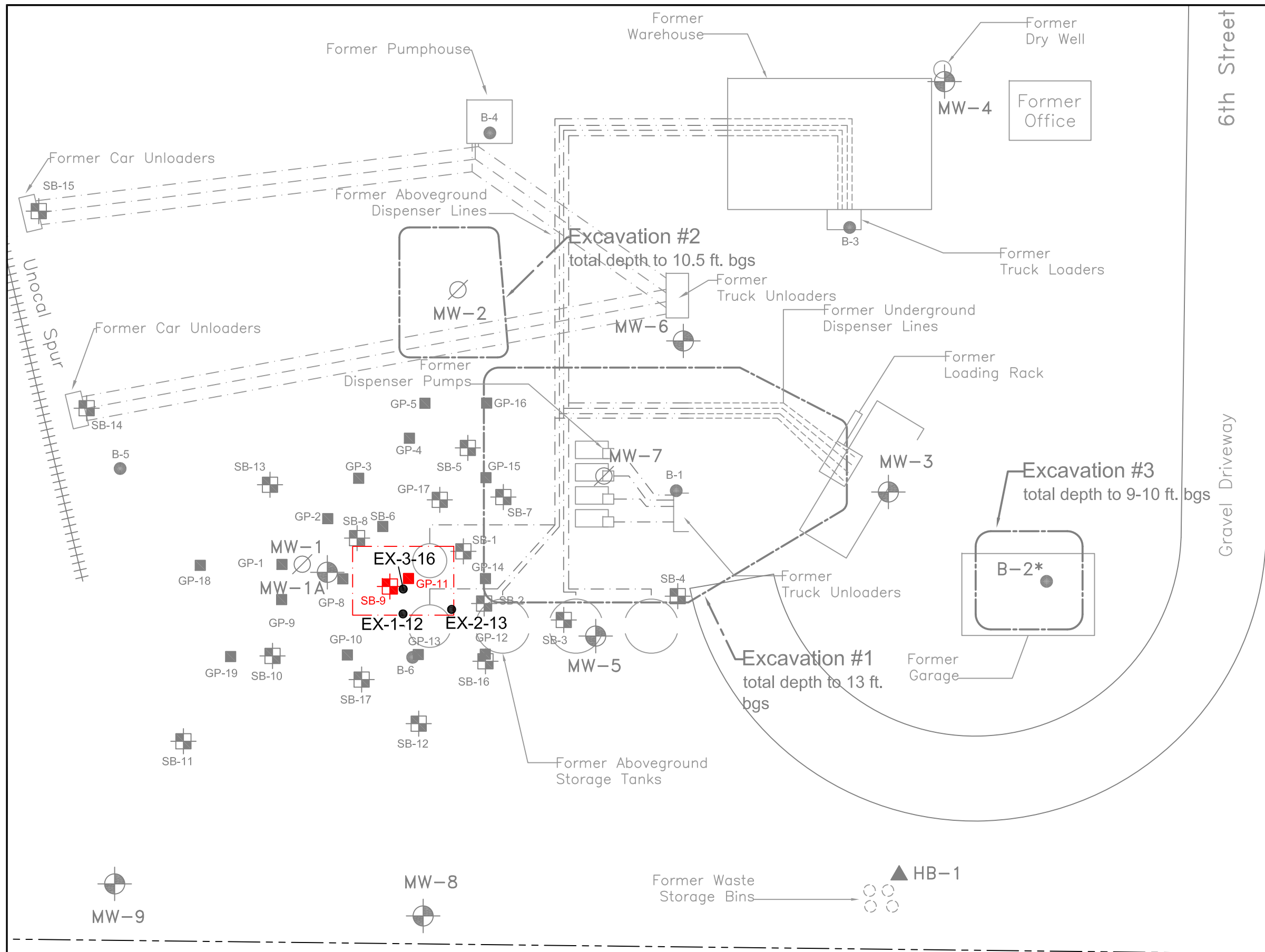
This technical document was prepared on behalf of CEMC and is intended for its sole use and for use by the local, state or federal regulatory agency that the technical document was sent to by SAIC. Any other person or entity obtaining, using, or relying on this technical document hereby acknowledges that they do so at their own risk, and SAIC 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. SAIC 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 SAIC's site visits or site work and cannot be applied to conditions and features of which SAIC is unaware and has not had the opportunity to evaluate.

All sources of information on which SAIC 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 SAIC in the context of this technical document. The conclusions, therefore, represent our professional opinion based on the identified sources of information.



- LEGEND**
- 2012 Excavation Limit
 - 2001 Excavation Limit
 - EX-1-12 ● Excavation Soil Sample Location
 - MW-3 Monitoring Well Location
 - SB-1 Hand Auger/Boring Location
 - MW-2 Abandoned Monitoring Well Location
 - B-4 ● Previous Soil Boring Location
 - GP-1 ■ Previous Push-Probe Location
 - B-2* 2002 Confirmation Soil Sample Below MTCA Method A Cleanup Level
 - SB-9 ■ Red Indicates Soil Analytical Results above MTCA Method A Cleanup Levels
 - - - Property Boundary



Former Union Oil Bulk Plant No. 0885
 Chevron Site No. 306490
 333 6th Street
 Woodland, Washington

FIGURE 1
 Site Map

TABLE 1
SOIL ANALYTICAL RESULTS
FORMER UNOCAL BULK PLANT NO. 306490
333 6th Street, Woodland, Washington
Concentrations reported in mg/kg

Sample Name	Depth (ft)	Date Sampled	Sample ID	Benzene ¹	Toluene ¹	Ethyl-benzene ¹	Total Xylenes ¹	TPH-GRO ²	TPH-DRO ³	TPH-HRO ³
Monitoring Well Installation										
MW-1A	9	08/15/12	MW-1A-9 Grab Soil Sample	<0.0064	<0.0064	<0.0064	<0.019	<1.3	<3.3	<11
Remedial Excavation										
Stockpile -1	--	09/11/12	Stockpile -1	<0.02	<0.05	<0.05	<0.15	<10	<100	<200
Stockpile - 2	--	09/11/12	Stockpile - 2	<0.02	<0.05	<0.05	<0.15	<10	<100	<200
Stockpile - 3	--	09/11/12	Stockpile - 3	<0.02	<0.05	<0.05	<0.15	<10	<100	<200
Stockpile - 3 dup	--	09/11/12	Stockpile - 3 dup	<0.02	<0.05	<0.05	<0.15	<10	<100	<200
EX-1-12	12	09/11/12	EX-1-12	<0.02	<0.05	<0.05	<0.15	<10	<100	<200
EX-2-13	13	09/11/12	EX-2-13	<0.02	<0.05	<0.05	<0.15	<10	<100	<200
EX-3-16	16	09/11/12	EX-3-16	<0.02	<0.05	<0.05	<0.15	<10	<100	<200
EX-3-16 Dup	16	09/11/12	EX-3-16 Dup	<0.02	<0.05	<0.05	<0.15	<10	<100	<200
MTCA Method A Cleanup Levels:				0.03	7	6	9	30	2,000	2,000

EXPLANATIONS:

MTCA = Model Toxics Control Act

ft = Feet

< = Analyte not detected at or above the laboratory reporting limit

mg/kg = milligrams per kilogram

TPH = Total petroleum hydrocarbons

TPH-GRO = TPH as gasoline-range organics

TPH-DRO = TPH as diesel-range organics

TPH-HRO = TPH as heavy oil-range organics

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

1 BTEX analyzed by USEPA Method 8260.

2 TPH-GRO analyzed by Northwest Method NWTPH-G.

3 TPH-DRO and TPH-HRO analyzed by Northwest Method WTPH.

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FORMER UNOCAL BULK PLANT NO. 306490
333 6th Street, Woodland, Washington
Concentrations reported in µg/L

Sample Name	Date Sampled	Depth to Groundwater (ft)	Benzene ¹	Toluene ¹	Ethyl-benzene ¹	Total Xylenes ¹	TPH-GRO ²	TPH-DRO ³	TPH-HRO ³
Monitoring Well Installation									
MW-1A	8/15/2012	8.61	<0.5	<0.5	<0.5	<1.5	<50	<29	<67
MTCA Method A Cleanup Levels:			5	1,000	700	1,000	800	500	500

EXPLANATIONS:

MTCA = Model Toxics Control Act

ft = Feet

< = Analyte not detected at or above the laboratory reporting limit

µg/L = micrograms per liter

TPH-GRO = TPH as gasoline-range organics

TPH-DRO = TPH as diesel-range organics

TPH-HRO = TPH as heavy oil-range organics

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

1 BTEX analyzed by USEPA Methods 8020.

2 TPH-GRO analyzed by USEPA Method Northwest Methods NWTPH-G.

3 TPH-DRO and TPH-HRO analyze by Northwest Methods WTPH-D.

**Appendix A:
May 2012 SAIC Site Investigation Report**

**SITE INVESTIGATION REPORT
FORMER UNION OIL BULK PLANT NO. 306490
333 6th Avenue
Woodland, Washington**

May 14, 2012

**Prepared for:
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Project Manager

Don Wyll
Senior Project Manager



SITE INVESTIGATION REPORT FORMER UNION OIL BULK PLANT NO. 306490

1.0 INTRODUCTION

This report documents the activities and findings of a site investigation performed by SAIC Energy, Environment & Infrastructure, LLC (SAIC) on behalf of Chevron Environmental Management Company (CEMC) at former Union Oil Bulk Plant No. 306490 (the site), located in Woodland, Washington. This investigation was performed as an independent action to further define the nature and extent of petroleum impacts at the former bulk plant property.

2.0 SITE BACKGROUND

2.1 SITE DESCRIPTION

The former Union Oil bulk plant No. 306490 is located at 333 6th Avenue in Woodland, Washington and was operated from approximately 1926 to 1992. The property is currently owned by Chevron and is located in industrially zoned unincorporated Cowlitz County. Nearby uses include agricultural and rural residential. The property is surrounded by the former Fleetwood Homes site to the north, south, and east, and by the Burlington Northern Sante Fe (BNSF) rail line to the west.

2.2 SITE HISTORY

The Union Oil Company of California began operating this facility as a bulk fuel and distribution facility in 1926. Former structures included a warehouse, pump house, garage, two railroad spurs, five above-ground storage tanks (ASTs), three 2-inch-diameter above-ground product delivery lines, and associated dispenser pumps (Figure 1). Fuels were stored in ASTs ranging in size from 5,000 to 20,000 gallons. In 1992, the bulk plant closed and all facilities were removed.

2.3 PREVIOUS INVESTIGATIONS AND REMEDIATIONS

Several environmental investigations were performed at the site between 1992 and 2005. Historical soil and groundwater analytical data are summarized in Tables 1 and 2. The results of these investigations were reported by Professional Service Industries Inc., EMCON Northwest, Inc., Maul Foster & Alongi, Inc, and ENSR International. A short summary of these investigations and remedial actions can be found below:

- As part of a Phase II site investigation, seven soil borings (B-1 through B-6 and HB-1) and eight monitoring wells (MW-1 and MW-8) were installed between 1992 and 1994. Petroleum impacts were found in both groundwater and soil.
- In 1994, semi-annual groundwater monitoring began on five monitoring wells (MW-1, MW-2, MW-3, MW-4, and MW-5) and was conducted until 1999. Additional monitoring wells (MW-4, MW-6, and MW-8) were also sampled from 1994 through 1996, on a semi-annual basis.

- In 2001, approximately 1,990 cubic yard of soil was excavated from three locations. Confirmation sidewall and floor samples were collected. Roughly 1,030 cubic yards of petroleum impacted soil was transported offsite for disposal at the Regional Disposal Company landfill in Roosevelt, Washington.
- In 2002, the Washington Department of Ecology (Ecology) issued a No Further Action (NFA) determination with a restrictive covenant on groundwater. This NFA was later rescinded by Ecology in 2005.
- During May and June of 2005, approximately 224,000 gallons of groundwater was extracted from monitoring well MW-1 and treated onsite using an infiltration trench with underground injection control. Although groundwater samples collected during this removal process indicated an absence or lower concentration of gasoline and gasoline-related constituents, subsequent sampling conducted in July 2005 indicated that these concentrations had returned to levels encountered prior to this event.
- On September 5, 2005, monitoring well MW-1 was decommissioned by chipping in place. This was completed in anticipation of a “hot-spot” soil excavation planned for this area, which was never performed.
- Between September and November 2005, site assessment activities were performed to further characterize soil and groundwater in the vicinity of former monitoring well MW-1. Seventeen push probe borings (GP-1 through GP-5 and GP-8 through GP-19) were advanced to 15 ft bgs to collect soil and/or groundwater samples. Groundwater was encountered at depths of 12 and 13 ft bgs and was sampled at thirteen locations (GP-1, GP-3, GP-8, GP-9, and GP-11-GP-19). Due to turbidity associated with collecting groundwater samples during soil boring installation, analytical data is not representative of actual groundwater conditions.
- Quarterly groundwater monitoring began again in 2002 and was discontinued in 2005 (MW-1, MW-3 through MW-6, MW-8, and MW-9) as constituents of interest were consistently below laboratory detection limits, with the exception of MW-1.

3.0 SITE ASSESSMENT ACTIVITIES

3.1 OBJECTIVES AND PRE-FIELD ACTIVITIES

The primary objective of this site investigation was to further delineate and define the nature and extent of petroleum hydrocarbon impacts in soil, down gradient of former ASTs and in the vicinity of historical petroleum impacts.

3.2 SUBSURFACE UTILITY LOCATION

Prior to beginning site investigation activities, all underground utilities were marked by the public Utilities Underground Location Center. In addition, a private utility locator performed a geophysical survey to verify the presence of all subsurface structures on the subject property within the vicinity of the proposed soil boring locations.

3.3 BORING INSTALLATION AND SOIL SAMPLING

Seventeen soil borings (SB-1 through SB-17) were installed using a hand auger and direct push probe between February 21 and 23, 2012. Locations of the soil borings are shown on Figure 1. Boring log construction details are provided in Appendix A.

All borings were advanced to at least 8 ft bgs with a hand auger in order to ensure that no utilities or other subsurface infrastructure would be encountered. During hand auger operations, soil samples were collected at approximately 2-foot intervals between the ground surface and 8 ft bgs. Borings were advanced below 8 ft bgs using a direct-push probe, and soil samples were collected continuously to the total depth explored. Three borings were attempted within Excavation #1, however large rocks at 4 ft bgs prevented clearing of the borings and they were abandoned. Following completion, each boring was backfilled with bentonite chips and finished with native material or gravel.

Each soil boring was logged by a geologist in accordance with the Unified Soil Classification System (USCS) Visual-Manual Procedure (American Society for Testing and Materials Method D2488). Soil samples from each boring were screened for the presence of hydrocarbons using a photo-ionization detector (PID) above the depth at which groundwater was encountered. Soil samples were selected for laboratory analysis based on field observations including headspace screening concentrations, sheen, depth to groundwater, and historical contamination depth and location.

Samples selected for laboratory analysis were analyzed for:

- Gasoline-range hydrocarbons by Northwest Method NWTPH-Gx;
- Diesel-range hydrocarbons and heavy oil-range hydrocarbons by Northwest Method NWTPH-Dx extended; and
- BTEX by United States Environmental Protection Agency (USEPA) Method 8260B.

Selected samples were also analyzed for ethylene dibromide (EDB), ethylene dichloride (EDC), and n-hexane by USEPA Method 8260B, carcinogenic polynuclear aromatic hydrocarbons (cPAHs) by USEPA Method 8270C SIM, volatile petroleum hydrocarbons (VPH) by Washington VPH Method, and extractable petroleum hydrocarbons (EPH) by Washington EPH Method.

Samples collected for laboratory analysis were submitted under chain-of-custody protocol to Lancaster Laboratories (Lancaster) in Lancaster, Pennsylvania.

3.4 EQUIPMENT DECONTAMINATION

All reusable soil sampling equipment was decontaminated by washing in a Liquinox™ solution followed by an initial rinse in tap water and a final rinse in deionized water. Sample collection bowls and sheen pans were decontaminated immediately after collecting, logging, and screening each sample. All other single-use disposable soil sampling materials/equipment (e.g., gloves, single-use sample syringes, and plastic bags) were discarded immediately after use and disposed of as municipal waste.

4.0 FINDINGS

4.1 GEOLOGY

The site is underlain by unconsolidated alluvium, including silt, sandy silt, and sands. These soils represent floodplain deposits of the Columbia River Alluvium. Onsite soils primarily consist of medium density, poorly graded sands and gravelly sand that extend to 20 ft bgs. Frequent lenses of very fine sand and clay were also observed between 3-8 ft bgs, at various locations across the site.

4.2 HYDROGEOLOGY

Historical data indicates the groundwater depth range seasonally between approximately 6 to 12 ft bgs. The groundwater flow direction beneath the site has primarily been to the southwest.

4.3 NATURE AND EXTENT OF PETROLEUM IMPACTS

4.3.1 Soil

Soil sample analytical results from this investigation are summarized in Table 3 and laboratory reports are presented in Appendix B. The extent of soil impacts exceeding the MTCA Method A cleanup levels for gasoline-range hydrocarbons, ethylbenzene, and total xylenes are limited to SB-9 at 13 ft bgs in an area west of the former dispenser pump and AST area. Historical data indicates contamination of gasoline-range hydrocarbons and benzene, in excess of MTCA Method A cleanup levels, is also present at nearby GP-11 at 13 ft bgs.

4.3.2 Groundwater

Historical groundwater data is summarized in Table 2 and indicates concentrations of petroleum hydrocarbons constituents were consistently below MTCA Method A cleanup levels at all monitoring well locations, with the exception of MW-1. The last sample collected from MW-1 in July 2005 exceeded MTCA Method A cleanup levels for gasoline-range hydrocarbons only. The spatial distribution of groundwater impacts as well as the "clean boundary" of down gradient wells, indicate that petroleum constituents have not migrated offsite.

5.0 CONCLUSIONS

As discussed above, soils and groundwater beneath the site have been impacted by the former bulk plant operations. Historical site investigations and remedial activities have identified the extent of onsite petroleum constituents in soil. Sixty three soil samples were collected as part of this site investigation and only one sample exceeded MTCA Method A cleanup levels in soil boring SB-13 at 13 ft bgs. Impacted soil appears to be limited to the area between MW-1 and excavation #1 at a depth of 13 ft bgs.

Historical groundwater monitoring results suggest that the areal extent of groundwater impact is likely restricted to the vicinity of MW-1 and does not extend offsite. Previous remedial excavation activities have eliminated up-gradient sources of contamination.

REPORT LIMITATIONS

This technical document was prepared on behalf of Chevron 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 SAIC. Any other person or entity obtaining, using, or relying on this technical document hereby acknowledges that they do so at their own risk, and that SAIC shall have no responsibility or liability for the consequences thereof.

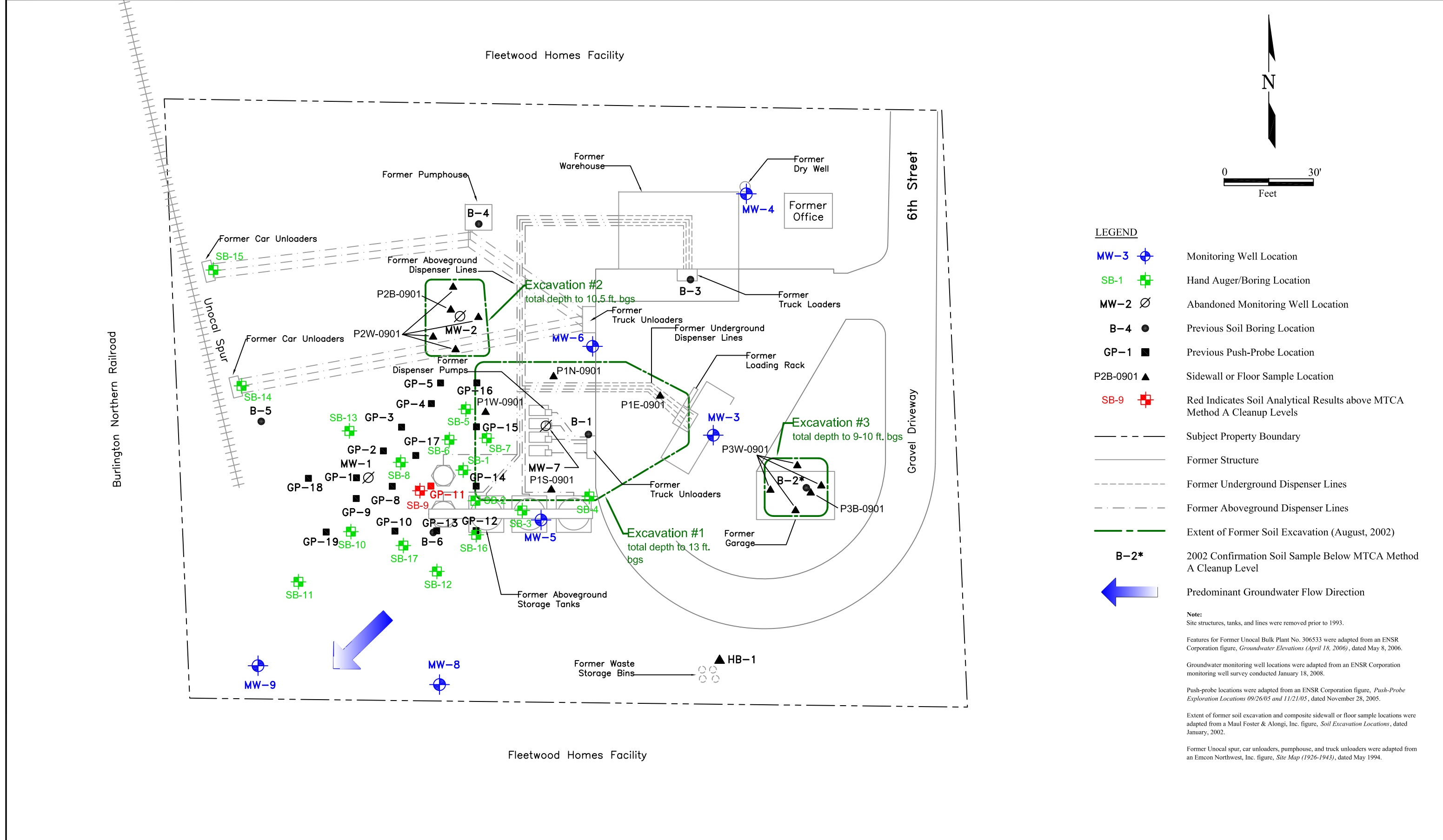
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Recognizing reasonable limits of time and cost, this technical document cannot wholly eliminate uncertainty regarding the vertical and lateral extent of impacted environmental media.

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

All sources of information on which SAIC 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 SAIC in the context of this technical document. The conclusions, therefore, represent our professional opinion based on the identified sources of information.

Figures



- LEGEND**
- MW-3 Monitoring Well Location
 - SB-1 Hand Auger/Boring Location
 - MW-2 Abandoned Monitoring Well Location
 - B-4 Previous Soil Boring Location
 - GP-1 Previous Push-Probe Location
 - P2B-0901 Sidewall or Floor Sample Location
 - SB-9 Red Indicates Soil Analytical Results above MTCA Method A Cleanup Levels
 - Subject Property Boundary
 - Former Structure
 - Former Underground Dispenser Lines
 - Former Aboveground Dispenser Lines
 - Extent of Former Soil Excavation (August, 2002)
 - B-2* 2002 Confirmation Soil Sample Below MTCA Method A Cleanup Level
 - Predominant Groundwater Flow Direction

Note:
 Site structures, tanks, and lines were removed prior to 1993.

Features for Former Unocal Bulk Plant No. 306533 were adapted from an ENSR Corporation figure, *Groundwater Elevations (April 18, 2006)*, dated May 8, 2006.

Groundwater monitoring well locations were adapted from an ENSR Corporation monitoring well survey conducted January 18, 2008.

Push-probe locations were adapted from an ENSR Corporation figure, *Push-Probe Exploration Locations 09/26/05 and 11/21/05*, dated November 28, 2005.

Extent of former soil excavation and composite sidewall or floor sample locations were adapted from a Maul Foster & Alongi, Inc. figure, *Soil Excavation Locations*, dated January, 2002.

Former Unocal spur, car unloaders, pumphouse, and truck unloaders were adapted from an Emcon Northwest, Inc. figure, *Site Map (1926-1943)*, dated May 1994.



Former Union Oil Bulk Plant No. 0885
 Chevron Site No. 306490
 333 6th Street
 Woodland, Washington

FIGURE 1
 Site Plan with Monitoring Well and Soil Boring Locations

DATE: 4/24/2012 DRAWING: 306490 Site Map.dwg

Tables

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
FORMER UNOCAL BULK PLANT NO. 306490
333 6th Street, Woodland, Washington
Concentrations reported in mg/kg

Sample Location ID	Depth (ft)	Date Sampled	Sample ID	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-HRO	Lead
Professional Service Industries, Inc. (Phase II, 1992)											
MW-2	composite ¹	01/16/92	FI-006	--	--	--	--	--	1,400	--	--
EMCON Northwest, Inc (Phase II, 1994)											
MW-3	7.5	05/02/94	MW3-7.5	ND	ND	ND	ND	ND	ND	ND	ND
MW-4	7.5	05/02/94	MW4-7.5	ND	ND	ND	ND	ND	ND	ND	ND
MW-5	7.5	05/02/94	MW5-7.5	ND	ND	ND	ND	ND	ND	ND	ND
MW-6	5	05/02/94	MW6-5.0	<0.1	<0.2	<0.2	<0.2	<10	ND	ND	ND
MW-7	2.5	05/02/94	MW7-2.5	ND	1.8	5.6	42.2	4,800	24,000	ND	ND
	7.5	05/02/94	MW7-7.5	53.6	240	78.7	459	17,000	16,000	240	ND
MW-8	8.0	06/07/94	MW8, S-2	ND	ND	ND	ND	ND	ND	ND	ND
B1	7.5	05/03/94	B1-7.5	ND	0.2	ND	0.5	54	2,000	320	ND
B2	7.5	05/03/94	B2-7.5	ND	0.9	0.3	2.1	126	ND	ND	ND
B3	7.5	05/03/94	B3-7.5	ND	ND	ND	ND	ND	ND	ND	ND
B4	7.5	05/03/94	B4-7.5	ND	ND	ND	ND	ND	ND	ND	ND
B5	7.5	05/03/94	B5-5.0	ND	ND	ND	ND	ND	ND	ND	ND
B6	7.5	05/03/94	B6-7.5	ND	ND	ND	ND	ND	ND	ND	ND
HB1	4	05/03/94	HB1-4.0	ND	ND	ND	ND	ND	ND	ND	ND
Maul Foster & Alongi, Inc (Excavation, 2001)											
Sidewall Samples from Excavation #1	7	09/17/01	P1N-0901	<0.05	<0.05	<0.05	<0.10	<5.0	<10.0	<25.0	--
	7	09/17/01	P1W-0901	<0.05	<0.05	<0.05	<0.10	<5.0	<10.0	<25.0	--
	7	09/18/01	P1S-0901	<0.05	<0.05	<0.05	<0.10	<5.0	<10.0	<25.0	--
	7	09/18/01	P1E-0901	<0.05	<0.05	<0.05	<0.10	<5.0	<10.0	<25.0	--
Sidewall and Floor Samples from Excavation #2	10	09/18/01	P2B-0901	<0.05	<0.05	<0.05	<0.10	<5.0	<10.0	<25.0	--
	7	09/18/01	P2W-0901	<0.05	<0.05	<0.05	<0.10	<5.0	<10.0	<25.0	--
Sidewall and Floor Samples from Excavation #3	9	09/18/01	P3B-0901	<0.05	<0.05	<0.05	<0.10	<5.0	<10.0	<25.0	--
	7	09/18/01	P3W-0901	<0.05	<0.05	<0.05	<0.10	<5.0	<10.0	<25.0	--
ENSR Corporation (Soil Investigation, 2005)											
GP-1	13.5	09/26/05	GP-1S-13.5	<0.0256	<0.0427	<0.0427	<0.0855	<4.27	<10.0	<25.0	--
GP-3	13.5	09/26/05	GP-3-13.5	<0.0251	<0.0419	<0.0419	<0.0838	<4.19	<10.0	<25.0	--
GP-8	12.5	09/26/05	GP-8-12.5	<0.0259	<0.0431	<0.0431	<0.0863	4.79	<10.0	<25.0	--
GP-9	13	09/26/05	GP-9-13	<0.0256	0.0510	<0.0442	0.216	4.42	<10.0	<25.0	--

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
FORMER UNOCAL BULK PLANT NO. 306490
333 6th Street, Woodland, Washington
Concentrations reported in mg/kg

Sample Location ID	Depth (ft)	Date Sampled	Sample ID	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-HRO	Lead
GP-11	13	09/26/05	GP-11-13	0.113	0.866	<0.0500	0.924	406	<10.0	<25.0	--
GP-12	9	11/21/05	GP-12-9	<0.0337	<0.0562	<0.0562	<0.0562	<5.62	<10.8	<26.9	--
GP-13	8.5	11/21/05	GP-13-8.5	<0.0294	<0.0490	<0.0490	<0.0981	<4.90	<10.5	<26.3	--
GP-14	8	11/21/05	GP-14-8	<0.0217	<0.0362	<0.0362	<0.0724	<3.62	<10.8	<27.1	--
GP-15	8	11/21/05	GP-15-8	<0.0291	<0.0486	<0.0486	<0.0971	<4.86	<10.7	<26.8	--
GP-16	8	11/21/05	GP-16-8	<0.0304	<0.0507	<0.0507	<0.101	<5.07	<10.5	<26.2	--
GP-17	7	11/21/05	GP-17-7	<0.0268	<0.0447	<0.0447	<0.0895	<4.47	573	<53.1	--
	13	11/21/05	GP-17-13	<0.0238	<0.0397	<0.0397	<0.0793	<3.97	85.3	<29.0	--
GP-18	7.5	11/21/05	GP-18-7.5	<0.0325	<0.0541	<0.0541	<0.108	<5.41	<11.0	<27.6	--
	13	11/21/05	GP-18-13	<0.0332	<0.0553	<0.0553	<0.111	<5.53	<11.9	<29.8	--
GP-19	7	11/21/05	GP-19-7	<0.0311	<0.0519	<0.0519	<0.104	<5.19	<10.8	<27.0	--
	13	11/21/05	GP-19-13	<0.0299	<0.0499	<0.0499	<0.0997	<4.99	<12.4	<31.0	--
MTCA Method A Cleanup Levels:				0.03	7	6	9	30	2,000	2,000	250

EXPLANATIONS:

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

ft = Feet

MTCA = Model Toxics Control Act

TPH = Total petroleum hydrocarbons

Analytical results bolded and shaded indicate concentrations that exceed MTCA Method A Cleanup Levels.

TPH-GRO = TPH as gasoline-range organics

TPH-DRO = TPH as diesel-range org

TPH-HRO = TPH as heavy oil-range organics

USEPA = United States Environmental Protection Agency

ND = Analyte not detected at or above the laboratory reporting limit

-- = Not tested/not analyzed

< = Analyte not detected at or above the laboratory reporting limit

mg/kg = milligrams per kilogram

BTEX analyzed by USEPA Method 5030/8020 or 8021B.

TPH-GRO analyzed by Northwest Method WTPH-G or NWTPH-Gx.

TPH-DRO and TPH-HRO analyzed by Northwest Method WTPH-D extended or NWTPH-Dx (after sulfuric acid/silica gel cleanup).

Lead analyzed by USEPA Method 6010 or USEPA 6000/7000 Series Methods.

1 Composite sample collected at 5 and 10 ft bgs, analyzed for Hydrocarbons Mixture determined to be a diesel and heavy oil.

TABLE 2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER UNOCAL BULK PLANT NO. 306490
333 6th Street, Woodland, Washington
Concentrations reported in µg/L

Sample Location ID	Date Sampled	Top of Well Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-HRO	Total Lead
MW-1	01/13/92	--	--	--	9,000	14,000	680	6900	--	--	--	--
	05/06/94	--	--	--	96	3.1	31	13	730	310	ND	ND
	11/03/94	--	--	--	180	37	<0.50	94	1,500	600	<1,000	--
	05/01/95	--	--	--	<0.50	<0.50	<0.50	<0.50	<80	<250	<500	--
	11/29/95	--	--	--	300	1,500	250	800	13,000	620	<500	--
	05/29/96	--	--	--	<0.50	<0.50	<0.50	2.2	<80	510	<500	--
	11/11/96	--	--	--	31.4	514	93	343	7,740	549	<500	--
	05/30/97	--	--	--	0.81	<0.50	2.98	4.66	319	<250	<500	--
	11/24/97	--	--	--	26.1	<0.50	<0.50	<1.0	<80	<250	<500	--
	05/06/98	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<0.25	<500	--
	11/04/98	--	--	--	43.8	3.2	116	113	1,090	405	<500	--
	05/10/99	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	11/04/99	--	--	--	28.8	66.8	66.5	221	2,900	<250	<500	--
	08/27/01 ¹	--	--	--	28	27.7	452	1,460	11,200	<250	<500	--
	10/01/01	20.50	10.22	10.28	--	--	--	--	--	--	--	--
	10/25/01	20.50	--	--	14	8.02	278	NA	3,910	885	<500	--
	01/24/02	20.50	6.23	14.27	4.06	0.80	9.97	2.78	1,270	<250	<500	--
	04/16/02	20.50	7.55	12.95	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	07/17/02	20.50	8.60	11.90	4.31	174	3.05	681	7,730	260	<500	--
	10/22/02	20.50	10.11	10.39	<5.0	194	8.29	642	6,860	300	<500	--
	01/23/03	20.50	7.74	12.76	5.03	62.1	1.52	84.8	7,010	505	<500	--
	01/22/04	20.50	7.25	13.25	4.54	0.944	5.30	7.98	2,520	895	<500	--
	04/07/04	20.50	7.57	12.93	<0.50	<0.50	<0.50	<1.00	50.9	<250	<500	--
	07/29/04	20.50	9.27	11.23	<0.50	<0.50	5.60	11.7	645	<250	<500	--
	10/27/04	20.50	9.28	11.22	16.1	<0.50	11.7	22.5	1,310	410	<500	--
	01/27/05	20.50	8.10	12.40	4.95	1.12	0.54	<1.0	926	<250	<500	--
	04/07/05	20.50	7.71	12.79	2.0	<0.50	<0.50	<1.0	1,210	<250	<500	--
05/12/05	20.50	--	--	--	--	--	--	<50.0	--	--	--	
05/18/05 (AM) ²	20.50	--	--	<0.50	<0.50	<0.50	<1.0	<80.0	<250	<250	--	
05/18/05 (PM) ²	20.50	--	--	<0.50	<0.50	8.37	38.2	710	<250	<250	--	
05/25/05	20.50	--	--	<1.0	<0.50	<0.50	<1.0	<80.0	<250	<250	--	
07/29/05	20.50	8.56	11.94	2.62	6.48	0.516	22.0	2,440	<250	<500	--	

Abandoned in September 2005

TABLE 2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER UNOCAL BULK PLANT NO. 306490
333 6th Street, Woodland, Washington
Concentrations reported in µg/L

Sample Location ID	Date Sampled	Top of Well Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-HRO	Total Lead
MW-2	01/13/92	--	--	--	1,200	660	66	820	--	--	--	--
	05/06/94	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	11/03/94	--	--	--	<0.50	<0.50	<0.50	<0.50	<80	<250	<1,000	--
	05/01/95	--	--	--	<0.50	<0.50	<0.50	<0.50	<80	300	<500	--
	11/29/95	--	--	--	<0.50	2.2	<0.50	0.56	<80	<250	<500	--
	05/29/96	--	--	--	3.1	6.1	2.1	11	1,100	450	<500	--
	11/11/96	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	225	<500	--
	05/30/97	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	11/24/97	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	05/06/98	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	11/04/98	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	05/10/99	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
11/04/99	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--	
Abandoned in September 2001												
MW-3	05/06/94	--	--	--	ND	ND	ND	ND	ND	320	ND	ND
	11/03/94	--	--	--	<0.50	<0.50	<0.50	<0.50	<80	<250	<1,000	--
	05/01/95	--	--	--	<0.50	<0.50	<0.50	<0.50	<80	<250	<500	--
	11/29/95	--	--	--	<0.50	1.1	<0.50	<0.50	<80	<250	<500	--
	05/29/96	--	--	--	3.2	4.2	1.3	6.2	<80	990	<500	--
	11/11/96	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	05/30/97	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	11/24/97	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	05/06/98	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	11/04/98	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	05/10/99	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	11/04/99	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	10/01/01	21.61	11.20	10.41	--	--	--	--	--	--	--	--
	10/25/01	21.61	--	--	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	01/24/02	21.61	7.42	14.19	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	04/16/02	21.61	8.63	12.98	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	04/16/02 (D)	21.61	--	--	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	07/17/02	21.61	9.57	12.04	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	10/22/02	21.61	11.09	10.52	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	01/23/03	21.61	8.82	12.79	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
01/22/04	21.61	8.35	13.26	<0.50	<0.50	<0.50	<1.0	<50	380	<500	--	
04/07/04	21.61	7.65	13.96	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--	
07/29/04	21.61	10.25	11.36	<0.50	<0.50	<0.50	<1.5	<50	<250	<500	--	
10/27/04	21.61	10.05	11.56	<0.50	<0.50	<0.50	<1.5	<50	<250	<500	--	
01/27/05	21.61	9.15	12.46	<0.50	<0.50	<0.50	<1.5	<50	<250	<500	--	
04/07/05	21.61	8.77	12.84	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--	

TABLE 2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER UNOCAL BULK PLANT NO. 306490
333 6th Street, Woodland, Washington
Concentrations reported in µg/L

Sample Location ID	Date Sampled	Top of Well Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-HRO	Total Lead
MW-3 cont'd	11/21/05	21.61	10.38	11.23	<0.50	<0.50	<0.50	<1.0	<50	<243	<485	--
	04/18/06	21.61	8.06	13.55	<0.50	<0.50	<0.50	<1.0	<50	<236	<472	--
MW-4	05/06/94	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	11/03/94	--	--	--	<0.50	<0.50	<0.50	<0.50	<80	<250	<1,000	--
	05/01/95	--	--	--	<0.50	<0.50	<0.50	<0.50	<80	<250	<500	--
	11/29/95	--	--	--	<0.50	0.54	<0.50	<0.50	<80	<250	<500	--
	05/29/96	--	--	--	<0.50	<0.50	<0.50	<0.50	<80	<250	<500	--
	11/11/96	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	05/30/97	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	08/27/01 ¹	--	--	--	<0.5	<0.50	<0.50	0.717	65.2	<250	<500	--
	10/01/01	20.79	10.37	10.42	--	--	--	--	--	--	--	--
	10/25/01	20.79	--	--	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	01/24/02	20.79	6.53	14.26	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	04/16/02	20.79	7.81	12.98	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	07/17/02	20.79	8.74	12.05	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	10/22/02	20.79	10.28	10.51	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	01/23/03	20.79	7.98	12.81	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	01/22/04	20.79	7.60	13.19	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	04/07/04	20.79	7.80	12.99	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	07/29/04	20.79	9.43	11.36	<0.50	<0.50	<0.50	<1.50	<50	<250	<500	--
	10/27/04	20.79	9.42	11.37	<0.50	<0.50	<0.50	<1.50	<50	<250	<500	--
	01/27/05	20.79	8.32	12.47	<0.50	<0.50	<0.50	<1.50	<50	<250	<500	--
04/07/05	20.79	7.94	12.85	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--	
11/21/05	20.79	9.55	11.24	<0.50	<0.50	<0.50	<1.0	<50	<243	<485	--	
04/18/06	20.79	7.21	13.58	<0.50	<0.50	<0.50	<1.0	<50	<236	<472	--	
MW-5	05/06/94	--	--	--	990	10	210	200	4,100	880	ND	ND
	11/03/94	--	--	--	240	28	--	--	790	<250	<1,000	--
	05/01/95	--	--	--	510	1,200	1,300	5,200	34,000	1,500	730	--
	11/29/95	--	--	--	400	6.4	80	28	2,000	480	10,500	--
	05/29/96	--	--	--	3.9	9.8	31	70	1,500	2,100	1,400	--
	11/11/96	--	--	--	3.51	49.2	9.41	32.9	600	255	<500	--
	05/30/97	--	--	--	1,310	374	1,160	5,080	28,200	972	<500	--
	11/24/97	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	05/06/98	--	--	--	8.87	236	730	2,480	15,500	<250	<500	--
	11/04/98	--	--	--	1.69	<0.50	2.08	<1.0	<80	325	<500	--
	05/10/99	--	--	--	<2.50	<2.5	54.7	206	906	<250	<500	--
	11/04/99	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	10/01/10	21.35	11.02	10.33	--	--	--	--	--	--	--	--
	10/25/01	21.35	--	--	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	01/24/02	21.35	7.10	14.25	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--

TABLE 2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER UNOCAL BULK PLANT NO. 306490
333 6th Street, Woodland, Washington
Concentrations reported in µg/L

Sample Location ID	Date Sampled	Top of Well Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-HRO	Total Lead
MW-5 cont'd	04/16/02	21.35	8.40	12.95	<0.50	<0.50	<0.50	1.16	114	<250	<500	--
	07/17/02	21.35	9.39	11.96	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	10/22/02	21.35	10.89	10.46	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	01/23/03	21.35	8.57	12.78	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	01/22/04	21.35	8.12	13.23	<0.50	<0.50	<0.50	<1.0	<50	2,560	993	--
	04/07/04	21.35	8.42	12.93	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	07/29/04	21.35	10.06	11.29	0.607	1.27	1.13	4.88	<80	<250	<500	--
	10/27/04	21.35	10.05	11.30	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	01/27/05	21.35	8.92	12.43	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	04/07/05	21.35	9.54	11.81	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	11/21/05	21.35	10.15	11.20	<0.50	<0.50	<0.50	<1.0	<50	<245	<490	--
	04/18/06	21.35	7.82	13.53	<0.50	<0.50	<0.50	<1.0	<50	<236	<472	--
MW-6	05/06/94	--	--	--	ND	ND	ND	ND	68	520	ND	ND
	11/03/94	--	--	--	<0.50	<0.50	<0.50	<0.50	<80	<250	<1,000	--
	05/01/95	--	--	--	<0.50	<0.50	<0.50	<0.50	<80	480	650	--
	11/29/95	--	--	--	<0.50	<0.50	<0.50	<0.50	<80	<250	<500	--
	05/29/96	--	--	--	<0.50	<0.50	<0.50	<0.50	<80	910	1,000	--
	11/11/96	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	05/30/97	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	10/01/01	21.48	11.12	10.36	--	--	--	--	--	--	--	--
	10/25/01	21.48	--	--	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	01/24/02	21.48	7.72	13.76	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	04/16/02	21.48	8.54	12.94	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	07/17/02	21.48	9.48	12.00	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	10/22/02	21.48	11.02	10.46	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	01/23/03	21.48	8.73	12.75	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	01/22/04	21.48	8.28	13.20	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	04/07/04	21.48	8.54	12.94	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	07/29/04	21.48	10.20	11.28	0.808	2.26	1.71	7.24	<80	<250	<500	--
	10/27/04	21.48	10.20	11.28	<0.50	1.72	<0.50	3.58	<80	<250	<500	--
	01/27/05	21.48	9.06	12.42	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	04/07/05	21.48	8.62	12.86	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	11/21/05	21.48	10.26	11.22	<0.50	<0.50	<0.50	<1.0	<50	<243	<485	--
	04/18/06	21.48	7.91	13.57	<0.50	<0.50	<0.50	<1.0	<50	<236	<472	--
MW-7	05/06/94 ¹	--	--	--	19,000	41,000	3,000	17,000	200,000	11,000	2,500	2.5
	05/06/94 (D)	--	--	--	14,000	32,000	2,900	17,000	220,000	13,000	2,500	ND
	11/03/94	--	--	--	2,600	8,100	1,000	6,500	62,000	27,000	<1,000	--
	05/01/95	--	--	--	15,000	34,000	2,300	14,000	160,000	16,000	1,000	--
	11/29/95	--	--	--	1,900	14,000	1,400	7,100	78,000	7,900	<500	--
	05/29/96	--	--	--	9,400	47,000	3,400	19,000	280,000	63,000	4,100	--



TABLE 2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER UNOCAL BULK PLANT NO. 306490
333 6th Street, Woodland, Washington
Concentrations reported in µg/L

Sample Location ID	Date Sampled	Top of Well Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-HRO	Total Lead
MW-7 cont'd	11/11/96	--	--	--	741	15,400	1,760	9,670	85,500	9,910	1,310	--
	05/30/97	--	--	--	1,020	34,100	2,790	16,300	148,000	1,750	<500	--
	11/24/97	--	--	--	790	11,200	2,220	13,200	110,000	662	<500	--
	05/06/98	--	--	--	805	27,600	3,180	19,700	123,000	17,300	<500	--
	11/04/98	--	--	--	283	3,970	2,600	14,400	57,300	58,200	<10,000	--
	05/10/99	--	--	--	1,420	18,600	2,620	21,800	103,000	29,800	<500	--
	11/04/99	--	--	--	117	1,900	3,040	18,300	57,400	13,500	<500	--
08/27/01	--	--	--	54.4	17.7	1,200	7,260	26,300	9.58	<500	--	
Abandoned in September 2001												
MW-8	06/09/94	--	--	--	ND	ND	ND	ND	ND	ND	ND	--
	12/19/94	--	--	--	<0.50	<0.50	<0.50	<0.50	<200	<250	--	--
	05/01/95	--	--	--	2.9	<0.50	<0.50	<0.50	<80	<250	<500	--
	11/29/95	--	--	--	<0.50	<0.50	<0.50	<0.50	<80	<250	<500	--
	05/29/96	--	--	--	<0.50	<0.50	<0.50	<0.50	<80	390	<500	--
	11/11/96	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	05/30/97	--	--	--	<0.50	<0.50	<0.50	<1.0	<80	<250	<500	--
	10/01/01	20.35	10.07	10.28	--	--	--	--	--	--	--	--
	10/25/01	20.35	--	--	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	01/24/02	20.35	6.10	14.25	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	04/16/02	20.35	7.42	12.93	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	07/17/02	20.35	8.42	11.93	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	10/22/02	20.35	9.98	10.37	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	01/23/03	20.35	7.61	12.74	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	01/22/04	20.35	7.10	13.25	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	04/07/04	20.35	7.44	12.91	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	07/29/04	20.35	9.11	11.24	<0.50	<0.50	<0.50	<1.50	<80	<250	<500	--
10/27/04	20.35	9.10	11.25	<0.50	<0.50	<0.50	<1.50	<80	<250	<500	--	
01/27/05	20.35	7.94	12.41	<0.50	<0.50	<0.50	<1.50	<80	<250	<500	--	
04/07/05	20.35	7.56	12.79	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--	
11/21/05	20.35	9.17	11.18	<0.50	<0.50	<0.50	<1.0	<50	<245	<490	--	
04/18/06	20.35	6.82	13.53	<0.50	<0.50	<0.50	<1.0	<50	<236	<472	--	
MW-9	04/16/02	19.67	6.80	12.87	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	07/17/02	19.67	7.79	11.88	<0.50	<0.50	<0.50	<1.0	51.2	<250	<500	--
	10/22/02	19.67	9.36	10.31	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	01/23/03	19.67	12.93	12.74	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	01/22/04	19.67	6.50	13.17	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	04/07/04	19.67	6.77	12.90	<0.50	<0.50	<0.50	<1.0	147	<250	<500	--
	07/29/04	19.67	8.48	11.19	<0.50	<0.50	<0.50	<1.50	<80	<250	<500	--
10/27/04	19.67	8.49	11.18	<0.50	<0.50	<0.50	<1.50	<80	<250	<500	--	
01/27/05	19.67	7.28	12.39	<0.50	<0.50	<0.50	<1.50	<80	<250	<500	--	

TABLE 2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER UNOCAL BULK PLANT NO. 306490
333 6th Street, Woodland, Washington
Concentrations reported in µg/L

Sample Location ID	Date Sampled	Top of Well Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-HRO	Total Lead
MW-9 cont'd	04/07/05	19.67	6.89	12.78	<0.50	<0.50	<0.50	<1.0	<50	<250	<500	--
	11/21/05	19.67	8.52	11.15	<0.50	<0.50	<0.50	<1.0	<50	<243	<485	--
	04/18/06	19.67	6.15	13.52	<0.50	<0.50	<0.50	<1.0	<50	<236	<472	--
	04/30/07	19.67	7.00	12.67	<0.50	<0.50	<0.50	<1.5	<50	<79	<99	--
	04/28/08	19.67	7.56	12.11	<0.50	<0.50	<0.50	<1.5	<50	<78	<98	--
GP-1	09/26/05	--	--	--	4.59	1.38	0.860	4.78	3,340	<250	<500	--
GP-3	09/26/05	--	--	--	3.08	1.45	0.51	5.11	2,030	<250	<500	--
GP-8	09/26/05	--	--	--	2.48	190	3.14	943	16,300	0.880	<500	--
GP-9	09/26/05	--	--	--	2.01	132	2.15	610	8,170	0.395	<500	--
GP-11	09/26/05	--	--	--	4.15	36	7.83	166	19,400	1.33	<500	--
GP-12	11/21/05	--	--	--	<0.500	<0.500	<0.500	<1.00	<50.0	<238	<476	--
GP-13	11/21/05	--	--	--	1.12	<0.500	<0.500	<1.00	395	<238	<476	--
GP-14	11/21/05	--	--	--	<0.5	<0.500	<0.500	<1.00	<50.0	<238	<476	--
GP-15	11/21/05	--	--	--	<0.500	<0.500	<0.500	<1.00	88	<238	<476	--
GP-16	11/21/05	--	--	--	3.49	<0.500	0.983	1.36	534	<238	<476	--
GP-17	11/21/05	--	--	--	4.92	1.62	0.798	1.33	1,950	<238	<476	--
GP-18	11/21/05	--	--	--	<0.500	<0.500	<0.500	<1.00	289	<238	<476	--
GP-19	11/21/05	--	--	--	3.69	33.4	0.945	102	4,590	293	<476	--
MTCA Method A Cleanup Levels:					5	1,000	700	1,000	800	500	500	15

EXPLANATIONS:

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

ft = Feet

MTCA = Model Toxics Control Act

TPH = Total petroleum hydrocarbons

Analytical results bolded and shaded indicate concentrations that exceed MTCA Method A Cleanup Levels.

TPH-GRO = TPH as gasoline-range organics

TPH-DRO = TPH as diesel-range organics

TPH-HRO = TPH as heavy oil-range organics

USEPA = United States Environmental Protection Agency

ND = Analyte not detected at or above the laboratory reporting limit

-- = Not tested/not analyzed

< = Analyte not detected at or above the laboratory reporting limit

µg/L = micrograms per liter

D = duplicate

BTEX analyzed by USEPA Methods 8020 or 8021B.

TPH-GRO analyzed by USEPA Method 8015 modified or Northwest Methods WTPH-G or NWTPH-Gx.

TPH-DRO analyzed by USEPA Method 8015 modified or Northwest Methods WTPH-D or NWTPH-Dx (after sulfuric acid/silica gel cleanup).

TPH-HRO analyzed by USEPA Method 418.1 or Northwest Methods WTPH-418.1 or NWTPH-Dx (after sulfuric acid/silica gel cleanup).

Total Lead analyzed by USEPA 6000/7000 series Methods.

1 Laboratory report was not available to confirm the analytical data.

2 Groundwater samples collected during groundwater remedial activities. AM sample collected prior to extraction. PM sample collected after extraction.

TABLE 3
2012 SOIL ANALYTICAL RESULTS
FORMER UNION OIL BULK PLANT NO. 306490
333 6th Ave, Woodland, Washington
Concentrations reported in mg/kg

Sample Location ID	Depth (ft)	Date Sampled	Benzene ¹	Toluene ¹	Ethyl-benzene ¹	Total Xylenes ¹	TPH-GRO ²	TPH-DRO ³	TPH-HRO ³	n-Hexane ¹	EDB ¹	EDC ¹	MTBE ¹	Naphthalenes ⁴	cPAHs ⁴
SB-1	4	02/21/12	0.001	<0.002	<0.002	<0.002	<2.2	6.2	<16						
	9	02/21/12	<0.0005	<0.001	<0.001	<0.001	<1.1	<3.3	<11						
	13	02/21/12	<0.0006	<0.001	<0.001	<0.001	<1.5	<3.8	<13						
SB-2	4	02/21/12	0.001	<0.002	<0.002	<0.002	<2.3	<4.6	<15	--	--	--	--	--	--
	8	02/21/12	<0.0006	<0.001	<0.001	<0.001	<1.5	<3.6	<12	--	--	--	--	--	--
	13	02/21/12	<0.0006	<0.001	<0.001	<0.001	8.1	18	<13	0.006	<0.001	<0.001	<0.0664	<0.00084	0.000007
	19	02/21/12	<0.0006	<0.001	<0.001	<0.001	2.1	<3.9	<13	--	--	--	--	--	--
SB-3	4	02/21/12	0.004	<0.001	<0.001	<0.001	<1.9	9.2	17	--	--	--	--	--	--
	9	02/21/12	0.0009	<0.001	<0.001	<0.001	<1.5	<3.7	<12	--	--	--	--	--	--
	13	02/21/12	<0.0007	<0.001	<0.001	<0.001	<1.8	<3.9	<13	--	--	--	--	--	--
SB-4	4	02/21/12	0.004	<0.001	<0.001	<0.001	<1.9	<4.4	21	--	--	--	--	--	--
	9	02/21/12	<0.0006	<0.001	<0.001	<0.001	<1.6	<4.2	<14	--	--	--	--	--	--
	14	02/21/12	<0.0006	<0.001	<0.001	<0.001	<1.5	<3.8	<13	--	--	--	--	--	--
SB-5	4	02/21/12	0.0008	<0.001	<0.001	<0.001	<1.9	<4.4	<15	--	--	--	--	--	--
	11	02/22/12	<0.0006	<0.001	<0.001	<0.001	<1.4	<3.6	<12	--	--	--	--	--	--
	14	02/22/12	<0.0006	<0.001	<0.001	<0.001	<1.5	<3.8	<13	--	--	--	--	--	--
SB-6	4	02/21/12	0.001	<0.002	<0.002	<0.002	<2.1	<4.8	<16	--	--	--	--	--	--
	9	02/22/12	<0.0006	<0.001	<0.001	<0.001	<1.4	<3.5	<12	--	--	--	--	--	--
	13	02/22/12	<0.0007	<0.001	<0.001	<0.001	<1.8	<4.1	<14	--	--	--	--	--	--
	19	02/22/12	<0.0007	<0.001	<0.001	<0.001	<1.7	<4.1	<14	--	--	--	--	--	--
SB-7	4	02/21/12	0.006	<0.001	<0.001	<0.001	<1.9	<4.3	<14	--	--	--	--	--	--
	10	02/22/12	0.0007	<0.001	<0.001	<0.001	<1.3	<3.8	<13	--	--	--	--	--	--
	13	02/22/13	<0.0007	<0.001	<0.001	<0.001	<1.7	<3.9	<13	--	--	--	--	--	--
SB-8	4	02/22/12	0.002	<0.001	<0.001	<0.001	<2.1	<4.6	<15	--	--	--	--	--	--
	9	02/22/12	<0.0006	<0.001	<0.001	<0.001	<1.5	<3.6	<12	--	--	--	--	--	--
	14	02/22/12	0.0007	<0.001	<0.001	<0.001	<1.8	<4.0	<13	--	--	--	--	--	--
SB-9	4	02/22/12	0.01	<0.001	<0.001	<0.001	<19	39	<14	--	--	--	--	--	--
	9	02/22/12	<0.0006	<0.001	<0.001	<0.001	<1.3	<3.5	<12	--	--	--	--	--	--
	13	02/22/12	<0.076	<0.15	11	56	880	150	<64	35	<0.15	<0.15	0.0804	2.6	0.00742
	17	02/22/12	<0.0006	<0.001	0.012	0.061	5.1	<3.7	<12	--	--	--	--	--	--
	19	02/22/12	<0.0006	<0.001	0.002	0.01	<1.4	<3.7	<12	--	--	--	--	--	--
SB-10	4	02/22/12	0.004	<0.001	<0.001	<0.001	<1.5	<4.1	<14	--	--	--	--	--	--
	10	02/22/12	<0.0006	<0.001	<0.001	<0.001	<1.7	<4.0	<13	--	--	--	--	--	--
	13	02/22/12	0.0008	<0.001	<0.001	<0.001	<1.8	<4.0	<13	--	--	--	--	--	--
	17	02/22/12	<0.0006	<0.001	<0.001	<0.001	<1.3 ⁵	<4.0	<13	--	--	--	--	--	--

TABLE 3
2012 SOIL ANALYTICAL RESULTS
FORMER UNION OIL BULK PLANT NO. 306490
333 6th Ave, Woodland, Washington
Concentrations reported in mg/kg

Sample Location ID	Depth (ft)	Date Sampled	Benzene ¹	Toluene ¹	Ethylbenzene ¹	Total Xylenes ¹	TPH-GRO ²	TPH-DRO ³	TPH-HRO ³	n-Hexane ¹	EDB ¹	EDC ¹	MTBE ¹	Naphthalenes ⁴	cPAHs ⁴
SB-11	4	02/22/12	0.0008	<0.001	<0.001	<0.001	<1.3	<3.8	<13	--	--	--	--	--	--
	8	02/23/12	<0.0006	<0.001	<0.001	<0.001	<1.6	<4.0	<13	--	--	--	--	--	--
	13	02/23/12	<0.0006	<0.001	<0.001	<0.001	<1.4	<3.8	<13	--	--	--	--	--	--
SB-12	4	02/22/12	0.001	<0.001	<0.001	<0.001	<2.0	<4.3	<14	--	--	--	--	--	--
	9	02/22/15	<0.0006	<0.001	<0.001	<0.001	<1.2	<3.5	<12	--	--	--	--	--	--
	14	02/22/12	<0.0006	<0.001	<0.001	<0.001	<1.4	<3.8	<13	--	--	--	--	--	--
SB-13	4	02/22/12	0.011	0.002	<0.001	<0.001	<1.9	<4.4	<15	--	--	--	--	--	--
	9	02/23/12	<0.0006	<0.001	<0.001	<0.001	<1.5	<3.9	<13	--	--	--	--	--	--
	13	02/23/12	<0.0006	<0.001	<0.001	<0.001	<1.5	<3.9	<13	--	--	--	--	--	--
SB-14	4	02/22/12	0.008	0.002	<0.001	<0.001	<1.6	<4.2	<14	--	--	--	--	--	--
	8	02/23/12	<0.0006	<0.001	<0.001	<0.001	<1.5	<3.8	<13	--	--	--	--	--	--
	12	02/23/12	<0.0006	<0.001	<0.001	<0.001	<1.3	<3.6	<12	--	--	--	--	--	--
SB-15	4	02/22/12	0.002	<0.001	<0.001	<0.001	<1.3	<3.5	<12	--	--	--	--	--	--
	8	02/23/12	<0.0006	<0.001	<0.001	<0.001	<1.6	<3.9	<13	--	--	--	--	--	--
	12	02/23/12	<0.0006	<0.001	<0.001	<0.001	<1.3	<3.6	<12	--	--	--	--	--	--
	14	02/23/12	<0.007	<0.001	<0.001	<0.001	<1.4	<3.9	<13	--	--	--	--	--	--
SB-16	4	02/22/12	0.002	<0.001	<0.001	<0.001	<2.0	5.7	17	--	--	--	--	--	--
	11	02/23/12	<0.005	<0.001	<0.001	<0.001	<1.3	<3.7	<12	--	--	--	--	--	--
	14	02/23/12	<0.0006	<0.001	0.005	0.008	1.3	<3.7	<12	--	--	--	--	--	--
	18	02/23/12	<0.0006	<0.001	<0.001	<0.001	<1.5	<3.6	<12	--	--	--	--	--	--
SB-17	4	02/23/12	0.0009	<0.002	<0.002	<0.002	<2.2	<4.7	<16	--	--	--	--	--	--
	11	02/23/12	<0.0006	<0.001	<0.001	<0.001	<1.4	<3.7	<12	--	--	--	--	--	--
	14	02/23/12	<0.0006	<0.001	<0.001	<0.001	<1.4	<3.7	<12	--	--	--	--	--	--
	16	02/23/12	<0.0006	<0.001	<0.001	<0.001	<1.5	<3.8	<13	--	--	--	--	--	--
MTCA Method A Cleanup Levels			0.03	7	6	9	30	2000	2000	--	0.005	--	0.1	5	0.1

EXPLANATIONS:

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

ft = Feet

MTCA = Model Toxics Control Act

TPH = Total petroleum hydrocarbons

TPH-GRO = TPH as gasoline-range organics

TPH-DRO = TPH as diesel-range organics

TPH-HRO = TPH as heavy oil-range organics

Analytical results bolded and shaded indicate concentrations that exceed MTCA Method A Cleanup Levels.

'--' = Not tested/not analyzed

< = Analyte not detected at or above the laboratory reporting limit

cPAHs = Carcinogenic Polynuclear Aromatic Hydrocarbons

MTBE = Methyl tert-butyl ether

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

*cPAHs values shown are sum of concentrations normalized to benzo(a)pyrene using toxicity equivalency factors per WAC173-340-708(8)

1 BTEX, n-Hexane, MTBE, EDB, and EDC analyzed by USEPA Method 8260B.

2 TPH-GRO analyzed by Northwest Method NWTPH-Gx.

3 TPH-DRO and TPH-HRO analyzed by Northwest Method NWTPH-Dx

4 cPAHs analyzed by USEPA Method 8270C SIM.

**Appendix A:
Boring Log Details**



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-1

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/21/2012
Date Completed: 2/21/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 15 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Saturated	0.7			SP		10	(SP) Dark gray, medium dense, medium to coarse SAND with trace gravel; no odor, no sheen.
Saturated	0.3					11	Same as above; no odor, no sheen.
						12	
Saturated	0.8					13	(SP) Same as above; no odor, no sheen.
Saturated	0.0			SP		14	
Saturated	0.0					15	Bottom of borehole at 15.0 feet.
						16	
						17	
						18	
						19	
						20	

SB-1-13



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-2

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/21/2012
Date Completed: 2/21/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 20 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Saturated	2.1			SP		10	(SP) Dark gray, medium dense, medium to coarse SAND with minor gravel; no odor, no sheen.
Saturated	4.4			SP		11	Same as above; no odor, no sheen.
Saturated	150			SP		12	Same as above with staining; slight odor, slight sheen.
Saturated	2980			SP		13	(SP) Same as above with staining; strong odor, slight to moderate sheen.
Saturated	15.1		SB-2-13	SP		14	Same as above without staining; no odor, no sheen.
Saturated	2.1			SP		15	No recovery.
						16	
						17	
						18	
Wet	13.2			SP		19	(SP) Dark gray, moderate dense, medium to coarse SAND; no odor, no sheen.
Wet	16		SB-2-19	SP		20	

Bottom of borehole at 20.0 feet.



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-3

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/21/2012
Date Completed: 2/21/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 15 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Moist	2.1			SP		1	(SP) Brown, loose, very fine to fine SAND; no odor, no sheen.
Moist	7.8		SB-3-4	ML		4	(ML) Brown, soft, moderate plasticity, sandy SILT; no odor, no sheen.
Wet	6.0					6	Dark brown, soft, moderate plasticity SILT; no odor, no sheen.
Wet	7.2		SB-3-9	SP		9	(SP) Dark gray, medium dense, medium to coarse SAND; no odor, no sheen.
						8	No recovery.
						10	



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-4

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/21/2012
Date Completed: 2/21/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 15 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Moist	8.3			SP		1	(SP) Brown, loose, very fine to fine SAND with trace silt; no odor, no sheen.
Moist	6.5		SB-4-4	ML		4	(ML) Dark brown, soft, moderate plasticity, sandy SILT; no odor, no sheen.
Wet	7.5					6	Dark brown, soft, moderate to high plasticity SILT with minor very fine sand; no odor, no sheen.
Wet	0					8	(ML) Brown, soft, moderate plasticity, very fine sandy SILT; no odor, no sheen.
Wet	0		SB-4-9	ML		9	
						10	



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-5

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/21/2012
Date Completed: 2/22/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 15 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Moist	5.0			SM		1	(SM) Brown, medium dense, silty, very fine SAND; no odor, no sheen.
Wet	3.7		SB-5-4	ML		2	(ML) Dark brown, soft, moderate plasticity, sandy SILT; no odor, no sheen.
Wet	2.3					3	Dark brown, soft, moderate to high plasticity SILT; no odor, no sheen.
Moist	0			SP-SM		4	(SP-SM) Dark gray, medium dense, fine to medium SAND with silt; no odor, no sheen.
						5	No recovery.
						6	



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-6

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/21/2012
Date Completed: 2/22/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 20 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Moist	1.5			SP		0 - 3.5	(SP) Dark gray, loose, fine SAND with trace silt; no odor, no sheen.
Wet	0.1		SB-6-4	ML		3.5 - 7.5	(ML) Brown, soft, moderate plasticity, sandy SILT; no odor, no sheen.
Wet	0					7.5 - 8.0	Same as above; no odor, no sheen.
Wet	0			SP		8.0 - 9.0	(SP) Brown to gray, loose, medium dense, fine to medium SAND; no odor, no sheen.
Saturated	0		SB-6-9			9.0 - 10.0	Same as above; no odor, no sheen.



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-6

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/21/2012
Date Completed: 2/22/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 20 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Saturated	0			SP			(SP) Dark gray, medium dense, fine to medium SAND; no odor, no sheen.
Saturated	0			SP		11	Dark gray, medium dense, medium to coarse SAND; no odor, no sheen.
Wet	0			SP		12	Same as above; no odor, no sheen.
Wet	0			SP		13	(SP) Same as above with staining; slight odor, no sheen.
Wet	0			SP		14	Same as above with staining; very slight odor, no sheen.
Saturated	0			SP		15	Same as above without staining; no odor, no sheen.
Wet	0			SP		16	(SP) Same as above; very slight odor, no sheen.
Wet	0			SP		17	Same as above; no odor, no sheen.
Wet	0			SP		18	(SP) Same as above; no odor, no sheen.
Wet	0			SP		19	Same as above; no odor, no sheen.
Wet	0			SP	20	Same as above; no odor, no sheen.	

Bottom of borehole at 20.0 feet.



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-7

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/21/2012
Date Completed: 2/22/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 15 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Moist	0			SM		1	(SM) Dark brown, loose, silty SAND; no odor, no sheen.
Wet	0		SB-7-4	ML		4	(ML) Dark brown, soft, moderate plasticity, sandy SILT; no odor, no sheen.
Wet	0					6	Same as above; no odor, no sheen.
Wet	0			SP		8	(SP) Dark gray, medium dense, medium to coarse SAND with trace silt; no odor, no sheen.
Wet	0					9	Same as above; no odor, no sheen.
						10	



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-9

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/22/2012
Date Completed: 2/22/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 20 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
						0	(SM) Brown, dense, silty, fine to very fine SAND; no odor, no sheen.
Wet	0			SM		1	
						2	
						3	
						3.5	(ML) Brown, soft, moderate to high plasticity, sandy SILT; no odor, no sheen.
Wet	1.4		SB-9-4	ML		4	
						5	
						6	Same as above; no odor, no sheen.
Wet	0					7	
						8	(ML) Same as above; no odor, no sheen.
Wet	0			ML		9	
						9.5	(SP) Dark gray, medium dense, fine to medium SAND; no odor, no sheen.
				SP		10	



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-9

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/22/2012
Date Completed: 2/22/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 20 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Saturated	0			SP			(SP) Dark gray, medium dense, fine to medium SAND; no odor, no sheen.
Saturated	0			SP		11	Dark gray, medium dense, medium to coarse SAND with gravel; no odor, no sheen.
Wet	0			SP		12	Same as above; no odor, no sheen.
Wet	6900		SB-9-13	SP		13	(SP) Same as above with staining; strong odor, moderate sheen.
Wet	190			SP		14	Same as above with staining; slight odor, no sheen.
Wet	19			SP		15	No recovery.
Wet	68		SB-9-17	SP		17	(SP) Brown, medium dense, medium to coarse SAND; very slight odor, no sheen.
Wet	45			SP		18	Same as above; no odor, no sheen.
Wet	0		SB-9-19	SP		19	Same as above; no odor, no sheen.
Wet	0			SP		20	Same as above; no odor, no sheen.

Bottom of borehole at 20.0 feet.



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-10

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/22/2012
Date Completed: 2/22/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 20 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Moist	0			SP		1	(SP) Brown, loose, fine to very fine SAND; no odor, no sheen.
Wet	0		SB-10-4	ML		4	(ML) Brown, soft, moderate plasticity, sandy SILT; no odor, no sheen.
Wet	0			SM		6	(SM) Brown, medium dense, silty, fine to very fine SAND; no odor, no sheen.
Wet	0			SP		8	(SP) Dark gray, medium dense, medium to coarse SAND with some gravel; no odor, no sheen.
Wet	0					9	Same as above; no odor, no sheen.
						10	



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Bothell, WA 98011

Soil Boring: SB-10

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/22/2012
Date Completed: 2/22/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 20 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Saturated	0						(SP) Dark gray, medium dense, medium to coarse SAND with trace gravel; no odor, no sheen.
Wet	0		SB-10-10	SP		11	Same as above; no odor, no sheen.
Wet	0					12	Same as above with gravel; no odor, no sheen.
Wet	0		SB-10-13	SP		13	(SP) Same as above with staining; slight odor, no sheen.
Wet	0					14	Same as above without staining; no odor, no sheen.
Wet	0					15	Dark gray, medium dense, medium to coarse SAND with trace gravel; no odor, no sheen.
Wet	0			SP		16	(SP) Same as above; no odor, no sheen.
Wet	0					17	Same as above with gravel; no odor, no sheen.
Wet	0		SB-10-17	SP		18	(SP) Brown, medium dense, medium to coarse SAND; no odor, no sheen.
Wet	0					19	Same as above; no odor, no sheen.
Wet	0					20	

Bottom of borehole at 20.0 feet.




18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-11

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/22/2012
Date Completed: 2/23/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 15 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Wet	0			SP			(SP) Dark gray, medium dense, medium to coarse SAND with minor gravel; no odor, no sheen.
Wet	0.5					11	Same as above; no odor, no sheen.
Wet	0					12	Same as above; no odor, no sheen.
Wet	0.6			SP		13	(SP) Same as above; no odor, no sheen.
Wet	0					14	Same as above; no odor, no sheen.
Wet	0					15	Bottom of borehole at 15.0 feet.
						16	
						17	
						18	
						19	
						20	

SB-11-13



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-12

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/22/2012
Date Completed: 2/22/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 15 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Moist	0			SP		1	(SP) Dark gray, loose, very fine to fine SAND; no odor, no sheen.
Moist	0		SB-12-4	ML		4	(ML) Brown, soft, moderate plasticity, sandy SILT; no odor, no sheen.
Wet	0					6	Same as above; no odor, no sheen.
Wet	0			SP		8	(SP) Dark gray, medium dense, medium to coarse SAND with cobbles; no odor, no sheen.
Wet	0.3		SB-12-9			9	Same as above; no odor, no sheen.
						10	



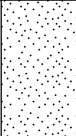
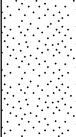
18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-12

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/22/2012
Date Completed: 2/22/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 15 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Saturated	0			SP		10	(SP) Dark gray, medium dense, medium to coarse SAND with minor gravel; no odor, no sheen.
Saturated	0.1					11	Same as above; no odor, no sheen.
Wet	0					12	Same as above; no odor, no sheen.
Wet	0			SP		13	(SP) Same as above; no odor, no sheen.
Wet	0					14	Same as above with cobbles; no odor, no sheen.
Wet	0					15	Bottom of borehole at 15.0 feet.
						16	
						17	
						18	
						19	
						20	

SB-12-14



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-13

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/22/2012
Date Completed: 2/23/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 15 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Saturated	0			SP		10	(SP) Dark gray, medium dense, medium to coarse SAND with minor gravel; no odor, no sheen.
Wet	2.3			SP		11	Same as above; no odor, no sheen.
Wet	0			SP		12	Same as above; no odor, no sheen.
Wet	1.0			SP		13	(SP) Same as above; no odor, no sheen.
Wet	0			SP		14	Same as above; no odor, no sheen.
Wet	0			SP		15	Bottom of borehole at 15.0 feet.
						16	
						17	
						18	
						19	
						20	

SB-13-13



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-14

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/22/2012
Date Completed: 2/23/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 15 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Wet	1.1			SP			(SP) Dark gray, medium dense, medium to coarse SAND with trace gravel; no odor, no sheen.
Wet	0					11	Same as above; no odor, no sheen.
Wet	0					12	Same as above with some gravel and cobbles; no odor, no sheen.
Wet	0					13	(SP) Same as above; no odor, no sheen.
Wet	0			SP		14	Same as above; no odor, no sheen.
Wet	0					15	Bottom of borehole at 15.0 feet.
						16	
						17	
						18	
						19	
						20	

SB-14-12



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-15

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/22/2012
Date Completed: 2/23/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 15 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Moist	0	Hand icon		ML		0 - 3.5	(ML) Dark brown, soft, moderate plasticity, sandy, SILT; no odor, no sheen.
Wet	0	Hand icon	SB-15-4	SP-SM	Stippled pattern	3.5 - 5.5	(SP-SM) Dark brown, medium dense, fine to medium SAND with minor silt; no odor, no sheen.
Saturated	0	Hand icon		SP	Stippled pattern	5.5 - 8.0	(SP) Dark brown, medium dense, medium to coarse SAND with cobbles; no odor, no sheen.
Saturated	0.7	Hand icon	SB-15-8		Stippled pattern	8.0 - 9.0	Dark gray, medium dense, medium to coarse SAND with trace gravel; no odor, no sheen.
Wet	0	Hand icon			Stippled pattern	9.0 - 10.0	Same as above; no odor, no sheen.



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-16

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/22/2012
Date Completed: 2/23/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 20 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Moist	0			SP		1	(SP) Brown, loose, very fine SAND; no odor, no sheen.
Moist	0		SB-16-4	ML		4	(ML) Brown, soft, moderate plasticity, sandy SILT; no odor, no sheen.
Wet	0					6	Same as above; no odor, no sheen.
Moist	2.7			SP		8	(SP) Dark gray, medium dense, medium to coarse SAND with minor gravel and cobbles; no odor, no sheen.
Moist	3					9	Same as above; no odor, no sheen.
						10	



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-16

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/22/2012
Date Completed: 2/23/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 20 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Saturated	3.2			SP			(SP) Dark brown, medium dense, medium SAND with trace silt; no odor, no sheen.
Saturated	3		SB-16-11	SP		11	Dark gray, medium dense, medium to coarse SAND with minor gravel; no odor, no sheen.
Saturated	3.2					12	Same as above; no odor, no sheen.
Wet	3.1			SP		13	(SP) Same as above with staining and cobbles; no odor, no sheen.
Wet	5		SB-16-14			14	Same as above with staining; slight odor, no sheen.
Wet	2.5					15	Same as above with staining; slight odor, no sheen.
Wet	2.9			SP		16	(SP) Gray, medium dense, medium to coarse SAND with some gravel and; slight odor, no sheen.
Wet	1.9					17	Dark brown, medium dense, medium to coarse SAND with minor gravel; no odor, no sheen.
Wet	2.9		SB-16-18	SP		18	(SP) Same as above; no odor, no sheen.
Wet	2.0					19	Same as above; no odor, no sheen.
Wet	1.4				20		

Bottom of borehole at 20.0 feet.



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-17

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/23/2012
Date Completed: 2/23/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 20 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Moist	0			SP		1	(SP) Dark gray, loose, fine to medium SAND; no odor, no sheen.
Moist	0		SB-17-4	ML		4	(ML) Brown, soft, moderate plasticity, sandy SILT; no odor, no sheen.
Wet	0					6	Same as above; no odor, no sheen.
Wet	2.4			SP		8	(SP) Dark brown, medium dense, medium to coarse SAND with minor gravel; no odor, no sheen.
Wet	2.6					9	Same as above; no odor, no sheen.
						10	



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Soil Boring: SB-17

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA

Logged By: J. Green
Date Started: 2/23/2012
Date Completed: 2/23/2012

Driller: Cascade Drilling, L.P.
Drill Method: Hand Auger / Direct Push
Total Boring Depth: 20 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Saturated	3.2			SP			(SP) Dark gray, medium dense, medium to coarse SAND with some gravel and cobbles; no odor, no sheen.
Saturated	3.3		SB-17-11			11	Same as above; no odor, no sheen.
Wet	3.7					12	Same as above; no odor, no sheen.
Wet	2.2			SP		13	(SP) Gray, medium dense, medium to coarse SAND with some gravel and staining; slight odor, no sheen.
Wet	3.3		SB-17-14			14	Same as above; slight odor, no sheen.
Wet	1.7					15	Same as above; no odor, no sheen.
Wet	0.1		SB-16-16	SP		16	(SP) Dark gray, medium dense, medium to coarse SAND with minor gravel; no odor, no sheen.
Wet	0					17	Dark gray, medium dense, fine to medium SAND; no odor, no sheen.
Wet	0			SP		18	(SP) Same as above with minor gravel; no odor, no sheen.
Wet	0.2					19	Dark gray, medium dense, medium to coarse SAND with some gravel and cobbles; no odor, no sheen.
Wet	0.1				20		

Bottom of borehole at 20.0 feet.

Appendix B:
Laboratory Analysis Reports

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

March 14, 2012

Project: 306490

Submittal Date: 02/25/2012
Group Number: 1291715
PO Number: 0015094807
Release Number: HARMON
State of Sample Origin: WA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SB-1-4 Grab Soil Sample	6558974
SB-1-9 Grab Soil Sample	6558975
SB-2-4 Grab Soil Sample	6558976
SB-1-13 Grab Soil Sample	6558977
SB-2-13 Grab Soil Sample	6558978
SB-2-8 Grab Soil Sample	6558979
SB-2-19 Grab Soil Sample	6558980
SB-3-4 Grab Soil Sample	6558981
SB-4-4 Grab Soil Sample	6558982
SB-3-9 Grab Soil Sample	6558983
SB-3-13 Grab Soil Sample	6558984
SB-5-4 Grab Soil Sample	6558985
SB-6-4 Grab Soil Sample	6558986
SB-4-9 Grab Soil Sample	6558987
SB-4-14 Grab Soil Sample	6558988
SB-7-4 Grab Soil Sample	6558989
SB-5-11 Grab Soil Sample	6558990
SB-5-14 Grab Soil Sample	6558991
SB-8-4 Grab Soil Sample	6558992
SB-9-4 Grab Soil Sample	6558993
SB-6-9 Grab Soil Sample	6558994
SB-6-13 Grab Soil Sample	6558995
SB-6-19 Grab Soil Sample	6558996
SB-10-4 Grab Soil Sample	6558997
SB-7-10 Grab Soil Sample	6558998
SB-7-13 Grab Soil Sample	6558999
SB-11-4 Grab Soil Sample	6559000
SB-9-9 Grab Soil Sample	6559001

SB-9-13 Grab Soil Sample	6559002
SB-9-19 Grab Soil Sample	6559003
SB-9-17 Grab Soil Sample	6559004
SB-12-4 Grab Soil Sample	6559005
SB-13-4 Grab Soil Sample	6559006
SB-8-9 Grab Soil Sample	6559007
SB-8-14 Grab Soil Sample	6559008
SB-14-4 Grab Soil Sample	6559009
SB-12-9 Grab Soil Sample	6559010
SB-12-14 Grab Soil Sample	6559011
SB-15-4 Grab Soil Sample	6559012
SB-10-13 Grab Soil Sample	6559013
SB-10-10 Grab Soil Sample	6559014
SB-10-17 Grab Soil Sample	6559015
SB-16-4 Grab Soil Sample	6559016
SB-11-8 Grab Soil Sample	6559017
SB-11-13 Grab Soil Sample	6559018
SB-17-4 Grab Soil Sample	6559019
SB-13-9 Grab Soil Sample	6559020
SB-13-13 Grab Soil Sample	6559021
SB-14-8 Grab Soil Sample	6559022
SB-14-12 Grab Soil Sample	6559023
SB-15-8 Grab Soil Sample	6559024
SB-15-12 Grab Soil Sample	6559025
SB-15-14 Grab Soil Sample	6559026
SB-16-11 Grab Soil Sample	6559027
SB-16-14 Grab Soil Sample	6559028
SB-16-18 Grab Soil Sample	6559029
SB-17-11 Grab Soil Sample	6559030
SB-17-14 Grab Soil Sample	6559031
SB-17-16 Grab Soil Sample	6559032

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

ELECTRONIC SAIC
COPY TO
ELECTRONIC SAIC
COPY TO

Attn: Mike Lange

Attn: Ruth Otteman

Respectfully Submitted,



Jill M. Parker
Senior Specialist

(717) 556-7262

Sample Description: SB-1-4 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558974
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/21/2012 11:30 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0104

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	0.001	0.0009	1.12
10237	Ethylbenzene	100-41-4	N.D.	0.002	1.12
10237	Toluene	108-88-3	N.D.	0.002	1.12
10237	Xylene (Total)	1330-20-7	N.D.	0.002	1.12
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	2.2	35.62
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	6.2	4.7	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	16	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	36.3	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120591AA	02/28/2012 17:29	Chelsea B Eastep	1.12
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/21/2012 11:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/21/2012 11:30	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/21/2012 11:30	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12058A34A	02/28/2012 03:44	Marie D John	35.62
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/21/2012 11:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120580018A	03/01/2012 09:46	Carrie E Miller	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120580018A	02/28/2012 10:30	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12060820006A	02/29/2012 17:56	Scott W Freisher	1

Sample Description: SB-1-9 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558975
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/21/2012 12:10 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0109

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0005	0.95
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.95
10237	Toluene	108-88-3	N.D.	0.001	0.95
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.95
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.1	24.08
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
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
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	10.1	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120591AA	02/28/2012 17:52	Chelsea B Eastep	0.95
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/21/2012 12:10	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/21/2012 12:10	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/21/2012 12:10	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12058A34A	02/28/2012 04:20	Marie D John	24.08
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/21/2012 12:10	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120580018A	03/01/2012 09:00	Carrie E Miller	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120580018A	02/28/2012 10:30	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12060820006A	02/29/2012 17:56	Scott W Freisher	1

Sample Description: SB-2-4 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558976
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/21/2012 12:45 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0204

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			mg/kg	mg/kg	
10237	Benzene	71-43-2	0.001	0.0008	0.99
10237	Ethylbenzene	100-41-4	N.D.	0.002	0.99
10237	Toluene	108-88-3	N.D.	0.002	0.99
10237	Xylene (Total)	1330-20-7	N.D.	0.002	0.99
GC Volatiles			mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	2.3	37.33
GC Petroleum Hydrocarbons			mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.6	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	15	1
Wet Chemistry			%	%	
00111	Moisture	n.a.	35.2	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120591AA	02/28/2012 18:15	Chelsea B Eastep	0.99
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/21/2012 12:45	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/21/2012 12:45	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/21/2012 12:45	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12058A34A	02/28/2012 04:56	Marie D John	37.33
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/21/2012 12:45	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120580018A	03/01/2012 09:23	Carrie E Miller	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120580018A	02/28/2012 10:30	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12060820006A	02/29/2012 17:56	Scott W Freisher	1

Sample Description: SB-1-13 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558977
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/21/2012 12:20 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0113

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	1.02
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.02
10237	Toluene	108-88-3	N.D.	0.001	1.02
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.02
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.5	29.5
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.8	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	20.3	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120591AA	02/28/2012 18:38	Chelsea B Eastep	1.02
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/21/2012 12:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/21/2012 12:20	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/21/2012 12:20	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12058A34A	02/28/2012 05:32	Marie D John	29.5
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/21/2012 12:20	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120580018A	03/01/2012 06:42	Carrie E Miller	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120580018A	02/28/2012 10:30	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12060820006A	02/29/2012 17:56	Scott W Freisher	1

Sample Description: SB-2-13 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558978
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/21/2012 13:15 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0213

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B mg/kg mg/kg					
10237	Benzene	71-43-2	N.D.	0.0006	1
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	n-Hexane	110-54-3	0.006	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1
GC/MS Semivolatiles SW-846 8270C SIM mg/kg mg/kg					
10722	Benzo(a)anthracene	56-55-3	N.D.	0.00084	1
10722	Benzo(a)pyrene	50-32-8	N.D.	0.00084	1
10722	Benzo(b)fluoranthene	205-99-2	N.D.	0.00084	1
10722	Benzo(k)fluoranthene	207-08-9	N.D.	0.00084	1
10722	Chrysene	218-01-9	0.00070	0.00042	1
10722	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00084	1
10722	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00084	1
10722	1-Methylnaphthalene	90-12-0	N.D.	0.00084	1
10722	2-Methylnaphthalene	91-57-6	N.D.	0.00084	1
10722	Naphthalene	91-20-3	N.D.	0.00084	1
GC Volatiles ECY 97-602 NWT PH-Gx mg/kg mg/kg					
02005	TPH by NWT PH-Gx soils	n.a.	8.1	1.4	27.73
GC Petroleum ECY 97-602 NWT PH-Dx mg/kg mg/kg					
Hydrocarbons modified					
08272	Diesel Range Organics C12-C24	n.a.	18	3.8	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
GC Petroleum ECY 97-602 WA EPH mg/kg mg/kg					
Hydrocarbons					
05970	>C10-C12 Aliphatic	n.a.	N.D.	1.2	1
05970	>C10-C12 Aromatic	n.a.	N.D.	1.2	1
05970	>C12-C16 Aliphatic	n.a.	1.3	1.2	1
05970	>C12-C16 Aromatic	n.a.	1.3	1.2	1
05970	>C16-C21 Aliphatic	n.a.	N.D.	3.7	1
05970	>C16-C21 Aromatic	n.a.	3.6	2.4	1
05970	>C21-C34 Aliphatic	n.a.	N.D.	7.3	1
05970	>C21-C34 Aromatic	n.a.	N.D.	2.4	1
GC Petroleum ECY 97-602 WA VPH mg/kg mg/kg					
Hydrocarbons					
05666	Benzene	71-43-2	N.D.	0.0664	52.63
05666	C5-C6 Aliphatic Hydrocarbons	n.a.	N.D.	3.32	52.63
05666	C6-C8 Aliphatic Hydrocarbons	n.a.	3.32	3.32	52.63
05666	C8-C10 Aliphatic Hydrocarbons	n.a.	8.23	3.32	52.63
05666	C8-C10 Aromatic Hydrocarbons	n.a.	N.D.	3.32	52.63
05666	Ethylbenzene	100-41-4	N.D.	0.0664	52.63

Sample Description: SB-2-13 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558978
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/21/2012 13:15 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0213

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons		ECY 97-602 WA VPH	mg/kg	mg/kg	
05666	Methyl t-butyl ether	1634-04-4	N.D.	0.0664	52.63
05666	Toluene	108-88-3	N.D.	0.0664	52.63
05666	o-Xylene	95-47-6	N.D.	0.0664	52.63
05666	m,p-Xylenes	179601-23-1	N.D.	0.133	52.63
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	20.7	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259
 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.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX/EDB/EDC/n-hexane	SW-846 8260B	1	X120591AA	02/28/2012 23:13	Chelsea B Eastep	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/21/2012 13:15	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/21/2012 13:15	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/21/2012 13:15	Client Supplied	1
10722	PAH SIM 8270 Soil Microwave	SW-846 8270C SIM	1	12063SLA026	03/06/2012 00:02	Holly Berry	1
10810	BNA Soil Microwave SIM PAH	SW-846 3546	2	12063SLA026	03/05/2012 10:15	Kerrie A Freeburn	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12058A34A	02/28/2012 06:08	Marie D John	27.73
06647	GC-5g Field Preserved MeOH	SW-846 5035A	2	201205826867	02/21/2012 13:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120580018A	03/01/2012 07:05	Carrie E Miller	1
05970	WA EPH in Soil	ECY 97-602 WA EPH	1	120580012A	02/29/2012 15:38	Heather E Williams	1
05970	WA EPH in Soil	ECY 97-602 WA EPH	1	120580012A	02/29/2012 16:22	Heather E Williams	1
05666	WA- VPH soils	ECY 97-602 WA VPH	1	12061A08A	03/01/2012 18:46	Nicholas R Rossi	52.63
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120580018A	02/28/2012 10:30	Olivia Arosemena	1
11213	WA EPH Soils Extraction	ECY 97-602 WA EPH	1	120580012A	02/28/2012 05:00	David V Hershey Jr	1

Sample Description: SB-2-13 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558978
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/21/2012 13:15 by JW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0213

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00497	Silica Gel Fractionation	SW-846 3630C modified	1	120580012A	02/28/2012 07:30	David V Hershey Jr	1
00111	Moisture	SM20 2540 G	1	12060820006A	02/29/2012 17:56	Scott W Freisher	1

Sample Description: SB-2-8 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558979
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/21/2012 14:15 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0208

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.99
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.99
10237	Toluene	108-88-3	N.D.	0.001	0.99
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.99
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.5	30.58
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.6	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	12	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	17.7	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120591AA	02/28/2012 19:01	Chelsea B Eastep	0.99
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/21/2012 14:15	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/21/2012 14:15	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/21/2012 14:15	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12058A34A	02/28/2012 07:20	Marie D John	30.58
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/21/2012 14:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120580018A	03/01/2012 07:28	Carrie E Miller	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120580018A	02/28/2012 10:30	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12060820006A	02/29/2012 17:56	Scott W Freisher	1

Sample Description: SB-2-19 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558980
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/21/2012 14:20 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0219

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.98
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.98
10237	Toluene	108-88-3	N.D.	0.001	0.98
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.98
GC Volatiles			mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	2.1	1.6	29.78
GC Petroleum Hydrocarbons			mg/kg	mg/kg	
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
Wet Chemistry			%	%	
00111	Moisture	n.a.	23.3	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120591AA	02/28/2012 19:23	Chelsea B Eastep	0.98
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/21/2012 14:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/21/2012 14:20	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/21/2012 14:20	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12058A34A	02/28/2012 07:57	Marie D John	29.78
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/21/2012 14:20	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120590013A	03/01/2012 22:56	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120590013A	02/29/2012 02:00	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820006A	02/29/2012 17:56	Scott W Freisher	1

Sample Description: SB-3-4 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558981
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/21/2012 14:50 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0304

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	0.004	0.0007	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.9	33.02
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	9.2	4.4	1
08272	Heavy Range Organics C24-C40	n.a.	17	15	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	31.9	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120591AA	02/28/2012 19:46	Chelsea B Eastep	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/21/2012 14:50	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/21/2012 14:50	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/21/2012 14:50	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12059A16A	02/28/2012 20:32	Laura M Krieger	33.02
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/21/2012 14:50	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120590013A	03/02/2012 02:00	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120590013A	02/29/2012 02:00	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820006A	02/29/2012 17:56	Scott W Freisher	1

Sample Description: SB-4-4 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558982
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/21/2012 15:00 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0404

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	0.004	0.0007	0.99
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.99
10237	Toluene	108-88-3	N.D.	0.001	0.99
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.99
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.9	32.68
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.4	1
08272	Heavy Range Organics C24-C40	n.a.	21	15	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	31.5	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120591AA	02/28/2012 20:09	Chelsea B Eastep	0.99
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/21/2012 15:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/21/2012 15:00	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/21/2012 15:00	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12059A16A	02/28/2012 21:10	Laura M Krieger	32.68
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/21/2012 15:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120590013A	03/02/2012 02:23	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120590013A	02/29/2012 02:00	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820006A	02/29/2012 17:56	Scott W Freisher	1

Sample Description: SB-3-9 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558983
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/21/2012 15:15 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0309

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	0.0009	0.0006	0.91
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.91
10237	Toluene	108-88-3	N.D.	0.001	0.91
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.91
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.5	29.42
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
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
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	19.6	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120591AA	02/28/2012 20:32	Chelsea B Eastep	0.91
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/21/2012 15:15	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/21/2012 15:15	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/21/2012 15:15	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12058A34A	02/28/2012 08:33	Marie D John	29.42
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/21/2012 15:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120590013A	03/02/2012 00:51	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120590013A	02/29/2012 02:00	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820006A	02/29/2012 17:56	Scott W Freisher	1

Sample Description: SB-3-13 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558984
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/21/2012 15:30 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0313

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10237	Benzene	71-43-2	N.D.	0.0007	1.05
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.05
10237	Toluene	108-88-3	N.D.	0.001	1.05
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.05
GC Volatiles ECY 97-602 NWTPH-Gx					
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.8	33.91
GC Petroleum ECY 97-602 NWTPH-Dx					
Hydrocarbons modified					
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
Wet Chemistry SM20 5310 B modified % by wt.					
02079	TOC Solids/Sludges Combustion	n.a.	N.D.	0.0130	1
Due to the nature of this sample matrix, the sample cup was filled to capacity with less than 1000 mg of sample being used. The lowered sample weight has resulted in a raised reporting limit.					
Wet Chemistry SM20 2540 G %					
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 above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120591AA	02/28/2012 20:55	Chelsea B Eastep	1.05
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/21/2012 15:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/21/2012 15:30	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/21/2012 15:30	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12059A16B	02/29/2012 20:35	Carrie E Miller	33.91
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/21/2012 15:30	Client Supplied	n.a.

Sample Description: SB-3-13 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558984
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/21/2012 15:30 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0313

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120590013A	03/01/2012 23:42	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120590013A	02/29/2012 02:00	Sherry L Morrow	1
02079	TOC Solids/Sludges Combustion	SM20 5310 B modified	1	12053049531A	02/27/2012 23:50	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	12060820006A	02/29/2012 17:56	Scott W Freisher	1

Sample Description: SB-5-4 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558985
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/21/2012 15:40 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0504

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	0.0008	0.0007	0.98
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.98
10237	Toluene	108-88-3	N.D.	0.001	0.98
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.98
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.9	32.79
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.4	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	15	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	31.9	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120591AA	02/28/2012 21:18	Chelsea B Eastep	0.98
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/21/2012 15:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/21/2012 15:40	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/21/2012 15:40	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12059A16B	02/29/2012 16:47	Carrie E Miller	32.79
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/21/2012 15:40	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120590013A	03/02/2012 01:14	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120590013A	02/29/2012 02:00	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820006A	02/29/2012 17:56	Scott W Freisher	1

Sample Description: SB-6-4 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558986
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/21/2012 15:45 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0604

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	0.001	0.0008	0.99
10237	Ethylbenzene	100-41-4	N.D.	0.002	0.99
10237	Toluene	108-88-3	N.D.	0.002	0.99
10237	Xylene (Total)	1330-20-7	N.D.	0.002	0.99
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	2.1	33.36
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.8	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	16	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	37.3	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120602AA	02/29/2012 18:06	Chelsea B Eastep	0.99
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/21/2012 15:45	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/21/2012 15:45	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/21/2012 15:45	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12059A16B	02/29/2012 17:25	Carrie E Miller	33.36
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/21/2012 15:45	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120590013A	03/02/2012 01:37	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120590013A	02/29/2012 02:00	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820006A	02/29/2012 17:56	Scott W Freisher	1

Sample Description: SB-4-9 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558987
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/21/2012 16:15 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0409

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.89
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.89
10237	Toluene	108-88-3	N.D.	0.001	0.89
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.89
GC Volatiles			ECY 97-602 NWTPH-Gx	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.6	28.41
GC Petroleum Hydrocarbons			ECY 97-602 NWTPH-Dx modified	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.2	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
Wet Chemistry			SM20 2540 G	%	
00111	Moisture	n.a.	27.9	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120602AA	02/29/2012 18:29	Chelsea B Eastep	0.89
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/21/2012 16:15	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/21/2012 16:15	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/21/2012 16:15	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12059A16B	02/29/2012 18:03	Carrie E Miller	28.41
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/21/2012 16:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120590013A	03/02/2012 00:05	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120590013A	02/29/2012 02:00	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820006A	02/29/2012 17:56	Scott W Freisher	1

Sample Description: SB-4-14 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558988
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/21/2012 16:30 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0414

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.94
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.94
10237	Toluene	108-88-3	N.D.	0.001	0.94
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.94
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.5	29.52
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.8	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	21.6	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120602AA	02/29/2012 18:52	Chelsea B Eastep	0.94
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/21/2012 16:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/21/2012 16:30	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/21/2012 16:30	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12059A16B	02/29/2012 18:41	Carrie E Miller	29.52
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/21/2012 16:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120590013A	03/02/2012 00:28	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120590013A	02/29/2012 02:00	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820006A	02/29/2012 17:56	Scott W Freisher	1

Sample Description: SB-7-4 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558989
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/21/2012 16:45 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0704

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	mg/kg	
10237	Benzene	71-43-2	0.006	0.0007	0.99
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.99
10237	Toluene	108-88-3	N.D.	0.001	0.99
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.99
GC Volatiles			ECY 97-602 NWTPH-Gx	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.9	32.61
GC Petroleum Hydrocarbons			ECY 97-602 NWTPH-Dx modified	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
Wet Chemistry			SM20 2540 G	%	
00111	Moisture	n.a.	31.2	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120602AA	02/29/2012 19:15	Chelsea B Eastep	0.99
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/21/2012 16:45	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/21/2012 16:45	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/21/2012 16:45	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12059A16A	02/28/2012 21:48	Laura M Krieger	32.61
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/21/2012 16:45	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120590013A	03/02/2012 02:45	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120590013A	02/29/2012 02:00	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820006A	02/29/2012 17:56	Scott W Freisher	1

Sample Description: SB-5-11 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558990
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 08:40 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0511

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.93
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.93
10237	Toluene	108-88-3	N.D.	0.001	0.93
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.93
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.4	27.95
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.6	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	12	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	17.6	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120602AA	02/29/2012 19:38	Chelsea B Eastep	0.93
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/22/2012 08:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/22/2012 08:40	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 08:40	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12059A16B	02/29/2012 19:19	Carrie E Miller	27.95
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 08:40	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120590023A	03/08/2012 03:55	Michele D Hamilton	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120590023A	02/29/2012 09:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12060820006B	02/29/2012 17:56	Scott W Freisher	1

Sample Description: SB-5-14 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558991
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 08:50 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0514

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.98
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.98
10237	Toluene	108-88-3	N.D.	0.001	0.98
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.98
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.5	28.59
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.8	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	21.4	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120602AA	02/29/2012 20:48	Chelsea B Eastep	0.98
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/22/2012 08:50	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/22/2012 08:50	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 08:50	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12059A16B	02/29/2012 21:13	Carrie E Miller	28.59
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 08:50	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120590023A	03/08/2012 04:36	Michele D Hamilton	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120590023A	02/29/2012 09:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12060820006B	02/29/2012 17:56	Scott W Freisher	1

Sample Description: SB-8-4 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558992
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 09:00 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0804

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	0.002	0.0007	0.94
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.94
10237	Toluene	108-88-3	N.D.	0.001	0.94
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.94
GC Volatiles		ECY 97-602 NWTTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTTPH-Gx soils	n.a.	N.D.	2.1	33.58
GC Petroleum Hydrocarbons		ECY 97-602 NWTTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.6	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	15	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	34.7	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120602AA	02/29/2012 20:25	Chelsea B Eastep	0.94
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/22/2012 09:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/22/2012 09:00	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 09:00	Client Supplied	1
02005	NWTTPH-Gx soil C7-C12	ECY 97-602 NWTTPH-Gx	1	12059A16B	02/29/2012 21:51	Carrie E Miller	33.58
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 09:00	Client Supplied	n.a.
08272	NWTTPH-Dx soil	ECY 97-602 NWTTPH-Dx modified	1	120590023A	03/08/2012 04:57	Michele D Hamilton	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTTPH-Dx 06/97	1	120590023A	02/29/2012 09:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12060820006B	02/29/2012 17:56	Scott W Freisher	1

Sample Description: SB-9-4 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558993
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 09:20 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0904

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	mg/kg	
10237	Benzene	71-43-2	0.01	0.0007	1.02
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.02
10237	Toluene	108-88-3	N.D.	0.001	1.02
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.02
GC Volatiles			ECY 97-602 NWTPH-Gx	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	19	319.7
Reporting limits were raised due to sample foaming.					
GC Petroleum Hydrocarbons			ECY 97-602 NWTPH-Dx modified	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	39	4.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
Wet Chemistry			SM20 2540 G	%	
00111	Moisture	n.a.	31.0	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120602AA	02/29/2012 21:11	Chelsea B Eastep	1.02
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/22/2012 09:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/22/2012 09:20	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 09:20	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12059A16A	02/28/2012 22:32	Laura M Krieger	319.7
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 09:20	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120590023A	03/08/2012 07:22	Michele D Hamilton	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120590023A	02/29/2012 09:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12060820006B	02/29/2012 17:56	Scott W Freisher	1

Sample Description: SB-6-9 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558994
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 09:45 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0609

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	1.03
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.03
10237	Toluene	108-88-3	N.D.	0.001	1.03
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.03
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.4	29.77
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
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
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	14.0	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120602AA	02/29/2012 21:34	Chelsea B Eastep	1.03
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/22/2012 09:45	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/22/2012 09:45	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 09:45	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12059A16B	02/29/2012 19:57	Carrie E Miller	29.77
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 09:45	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120590023A	03/08/2012 05:18	Michele D Hamilton	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120590023A	02/29/2012 09:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12060820007A	02/29/2012 18:57	Scott W Freisher	1

Sample Description: SB-6-13 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558995
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 09:55 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0613

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0007	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.8	32.78
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.1	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	27.2	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120602AA	02/29/2012 21:57	Chelsea B Eastep	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/22/2012 09:55	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/22/2012 09:55	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 09:55	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12059A16B	02/29/2012 22:29	Carrie E Miller	32.78
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 09:55	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120590023A	03/08/2012 05:39	Michele D Hamilton	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120590023A	02/29/2012 09:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12060820007A	02/29/2012 18:57	Scott W Freisher	1

Sample Description: SB-6-19 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558996
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 10:05 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0619

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0007	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.01
10237	Toluene	108-88-3	N.D.	0.001	1.01
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.01
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.7	31.68
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.1	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	26.9	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120602AA	02/29/2012 22:20	Chelsea B Eastep	1.01
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/22/2012 10:05	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/22/2012 10:05	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 10:05	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12059A16A	02/29/2012 10:02	Laura M Krieger	31.68
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 10:05	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120590023A	03/08/2012 05:59	Michele D Hamilton	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120590023A	02/29/2012 09:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12060820007A	02/29/2012 18:57	Scott W Freisher	1

Sample Description: SB-10-4 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558997
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 10:40 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1004

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	0.004	0.0006	0.92
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.92
10237	Toluene	108-88-3	N.D.	0.001	0.92
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.92
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.5	27.93
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.1	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	26.7	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120602AA	02/29/2012 22:45	Chelsea B Eastep	0.92
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/22/2012 10:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/22/2012 10:40	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 10:40	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12059A16A	02/29/2012 10:40	Laura M Krieger	27.93
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 10:40	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120590023A	03/08/2012 07:02	Michele D Hamilton	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120590023A	02/29/2012 09:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12060820007A	02/29/2012 18:57	Scott W Freisher	1

Sample Description: SB-7-10 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558998
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 11:10 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0710

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	0.0007	0.0006	0.94
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.94
10237	Toluene	108-88-3	N.D.	0.001	0.94
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.94
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.3	26.64
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.8	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	20.7	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120602AA	02/29/2012 23:08	Chelsea B Eastep	0.94
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/22/2012 11:10	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/22/2012 11:10	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 11:10	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12059A16A	02/28/2012 23:10	Laura M Krieger	26.64
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 11:10	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120590023A	03/08/2012 06:41	Michele D Hamilton	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120590023A	02/29/2012 09:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12060820007A	02/29/2012 18:57	Scott W Freisher	1

Sample Description: SB-7-13 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6558999
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 11:20 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0713

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0007	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.7	32.73
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
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
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	24.3	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120602AA	02/29/2012 23:31	Chelsea B Eastep	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/22/2012 11:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/22/2012 11:20	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 11:20	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12060A34A	02/29/2012 22:17	Marie D John	32.73
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 11:20	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120590023A	03/08/2012 06:20	Michele D Hamilton	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120590023A	02/29/2012 09:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12060820007A	02/29/2012 18:57	Scott W Freisher	1

Sample Description: SB-11-4 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559000
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 11:30 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W114-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	0.0008	0.0005	0.82
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.82
10237	Toluene	108-88-3	N.D.	0.001	0.82
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.82
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.3	26.01
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.8	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	20.3	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120611AA	03/01/2012 16:30	Chelsea B Eastep	0.82
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/22/2012 11:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/22/2012 11:30	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 11:30	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12060A34A	02/29/2012 22:53	Marie D John	26.01
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 11:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600014A	03/02/2012 06:35	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600014A	03/01/2012 02:30	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820007A	02/29/2012 18:57	Scott W Freisher	1

Sample Description: SB-9-9 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559001
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 12:50 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0909

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.97
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.97
10237	Toluene	108-88-3	N.D.	0.001	0.97
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.97
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.3	27.17
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
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
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	14.9	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120611AA	03/01/2012 16:53	Chelsea B Eastep	0.97
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/22/2012 12:50	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/22/2012 12:50	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 12:50	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12060A34A	02/29/2012 23:29	Marie D John	27.17
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 12:50	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600014A	03/02/2012 04:17	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600014A	03/01/2012 02:30	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820007A	02/29/2012 18:57	Scott W Freisher	1

Sample Description: SB-9-13 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559002
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 13:00 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0913

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B mg/kg					
10237	Benzene	71-43-2	N.D.	0.076	118.13
10237	1,2-Dibromoethane	106-93-4	N.D.	0.15	118.13
10237	1,2-Dichloroethane	107-06-2	N.D.	0.15	118.13
10237	Ethylbenzene	100-41-4	11	0.15	118.13
10237	n-Hexane	110-54-3	35	0.15	118.13
10237	Toluene	108-88-3	N.D.	0.15	118.13
10237	Xylene (Total)	1330-20-7	56	0.15	118.13
GC/MS Semivolatiles SW-846 8270C SIM mg/kg					
10722	Benzo(a)anthracene	56-55-3	0.0066	0.00086	1
10722	Benzo(a)pyrene	50-32-8	0.0025	0.00086	1
10722	Benzo(b)fluoranthene	205-99-2	0.0031	0.00086	1
10722	Benzo(k)fluoranthene	207-08-9	0.0018	0.00086	1
10722	Chrysene	218-01-9	0.0081	0.00043	1
10722	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00086	1
10722	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00086	1
10722	1-Methylnaphthalene	90-12-0	7.9	0.043	50
10722	2-Methylnaphthalene	91-57-6	15	0.043	50
10722	Naphthalene	91-20-3	2.6	0.043	50
GC Volatiles ECY 97-602 NWT PH-Gx mg/kg					
02005	TPH by NWT PH-Gx soils	n.a.	880	57	1105.51
GC Petroleum ECY 97-602 NWT PH-Dx mg/kg					
Hydrocarbons modified					
08272	Diesel Range Organics C12-C24	n.a.	150	19	5
08272	Heavy Range Organics C24-C40	n.a.	N.D.	64	5
GC Petroleum ECY 97-602 WA EPH mg/kg					
Hydrocarbons					
05970	>C10-C12 Aliphatic	n.a.	2.1	1.3	1
05970	>C10-C12 Aromatic	n.a.	4.7	1.3	1
05970	>C12-C16 Aliphatic	n.a.	4.1	1.3	1
05970	>C12-C16 Aromatic	n.a.	14	1.3	1
05970	>C16-C21 Aliphatic	n.a.	5.1	3.8	1
05970	>C16-C21 Aromatic	n.a.	5.6	2.5	1
05970	>C21-C34 Aliphatic	n.a.	N.D.	7.6	1
05970	>C21-C34 Aromatic	n.a.	N.D.	2.5	1
GC Petroleum ECY 97-602 WA VPH mg/kg					
Hydrocarbons					
05666	Benzene	71-43-2	N.D.	0.556	431.03
05666	C5-C6 Aliphatic Hydrocarbons	n.a.	41.0	27.8	431.03
05666	C6-C8 Aliphatic Hydrocarbons	n.a.	498	27.8	431.03
05666	C8-C10 Aliphatic Hydrocarbons	n.a.	N.D.	27.8	431.03
05666	C8-C10 Aromatic Hydrocarbons	n.a.	775	27.8	431.03
05666	Ethylbenzene	100-41-4	3.79	0.0556	43.1

Sample Description: SB-9-13 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559002
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 13:00 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0913

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Petroleum			ECY 97-602 WA VPH	mg/kg	
Hydrocarbons				mg/kg	
05666	Methyl t-butyl ether	1634-04-4	0.0804	0.0556	43.1
05666	Toluene	108-88-3	0.598	0.0556	43.1
05666	o-Xylene	95-47-6	5.57	0.556	431.03
05666	m,p-Xylenes	179601-23-1	17.9	1.11	431.03
Wet Chemistry			SM20 2540 G	%	
00111	Moisture	n.a.	22.5	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259
 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.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX/EDB/EDC/n-hexane	SW-846 8260B	1	R120661AA	03/06/2012 06:24	Stephanie A Selis	118.13
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/22/2012 13:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/22/2012 13:00	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 13:00	Client Supplied	1
10722	PAH SIM 8270 Soil Microwave	SW-846 8270C SIM	1	12063SLA026	03/06/2012 00:35	Holly Berry	1
10722	PAH SIM 8270 Soil Microwave	SW-846 8270C SIM	1	12063SLA026	03/06/2012 03:52	Holly Berry	50
10810	BNA Soil Microwave SIM PAH	SW-846 3546	2	12063SLA026	03/05/2012 10:15	Kerrie A Freeburn	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12060A34A	03/01/2012 15:39	Marie D John	1105.51
06647	GC-5g Field Preserved MeOH	SW-846 5035A	2	201205826867	02/22/2012 13:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600014A	03/08/2012 09:06	Michele D Hamilton	5
05970	WA EPH in Soil	ECY 97-602 WA EPH	1	120580012A	02/29/2012 17:07	Heather E Williams	1
05970	WA EPH in Soil	ECY 97-602 WA EPH	1	120580012A	02/29/2012 17:51	Heather E Williams	1
05666	WA- VPH soils	ECY 97-602 WA VPH	1	12061A08A	03/01/2012 22:12	Nicholas R Rossi	43.1
05666	WA- VPH soils	ECY 97-602 WA VPH	1	12061A08A	03/01/2012 22:53	Nicholas R Rossi	431.03

Sample Description: SB-9-13 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559002
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 13:00 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0913

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWT PH-Dx 06/97	1	120600014A	03/01/2012 02:30	Sherry L Morrow	1
11213	WA EPH Soils Extraction	ECY 97-602 WA EPH	1	120580012A	02/28/2012 05:00	David V Hershey Jr	1
00497	Silica Gel Fractionation	SW-846 3630C modified	1	120580012A	02/28/2012 07:30	David V Hershey Jr	1
00111	Moisture	SM20 2540 G	1	12060820007A	02/29/2012 18:57	Scott W Freisher	1

Sample Description: SB-9-19 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559003
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 13:20 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0919

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.91
10237	Ethylbenzene	100-41-4	0.002	0.001	0.91
10237	Toluene	108-88-3	N.D.	0.001	0.91
10237	Xylene (Total)	1330-20-7	0.01	0.001	0.91
GC Volatiles		ECY 97-602 NWTTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTTPH-Gx soils	n.a.	N.D.	1.4	28.67
GC Petroleum Hydrocarbons		ECY 97-602 NWTTPH-Dx modified	mg/kg	mg/kg	
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
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	18.4	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120611AA	03/01/2012 19:35	Chelsea B Eastep	0.91
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/22/2012 13:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/22/2012 13:20	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 13:20	Client Supplied	1
02005	NWTTPH-Gx soil C7-C12	ECY 97-602 NWTTPH-Gx	1	12060A34A	03/01/2012 00:05	Marie D John	28.67
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 13:20	Client Supplied	n.a.
08272	NWTTPH-Dx soil	ECY 97-602 NWTTPH-Dx modified	1	120600014A	03/02/2012 04:40	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTTPH-Dx 06/97	1	120600014A	03/01/2012 02:30	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820007A	02/29/2012 18:57	Scott W Freisher	1

Sample Description: SB-9-17 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559004
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 13:30 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0917

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.92
10237	Ethylbenzene	100-41-4	0.012	0.001	0.92
10237	Toluene	108-88-3	N.D.	0.001	0.92
10237	Xylene (Total)	1330-20-7	0.061	0.001	0.92
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	5.1	1.4	27.8
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
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
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	18.4	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120611AA	03/01/2012 19:58	Chelsea B Eastep	0.92
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/22/2012 13:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/22/2012 13:30	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 13:30	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12060A34A	03/01/2012 00:41	Marie D John	27.8
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 13:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600014A	03/02/2012 05:03	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600014A	03/01/2012 02:30	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820007B	02/29/2012 18:57	Scott W Freisher	1

Sample Description: SB-12-4 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559005
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 13:40 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1204

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	0.001	0.0007	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	2.0	34.1
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.3	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	30.7	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120611AA	03/01/2012 17:16	Chelsea B Eastep	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/22/2012 13:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/22/2012 13:40	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 13:40	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12060A34A	03/01/2012 01:18	Marie D John	34.1
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 13:40	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600014A	03/02/2012 06:12	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600014A	03/01/2012 02:30	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820007B	02/29/2012 18:57	Scott W Freisher	1

Sample Description: SB-13-4 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559006
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 13:50 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W134-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	0.011	0.0007	0.95
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.95
10237	Toluene	108-88-3	0.002	0.001	0.95
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.95
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.9	32.08
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.4	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	15	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	32.0	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120611AA	03/01/2012 17:39	Chelsea B Eastep	0.95
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/22/2012 13:50	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/22/2012 13:50	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 13:50	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12060A34A	03/01/2012 01:53	Marie D John	32.08
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 13:50	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600014A	03/02/2012 07:44	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600014A	03/01/2012 02:30	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820007B	02/29/2012 18:57	Scott W Freisher	1

Sample Description: SB-8-9 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559007
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 14:00 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0809

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	1.04
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.04
10237	Toluene	108-88-3	N.D.	0.001	1.04
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.04
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.5	31.09
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.6	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	12	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	17.5	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120611AA	03/01/2012 18:03	Chelsea B Eastep	1.04
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/22/2012 14:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/22/2012 14:00	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 14:00	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12060A34A	03/01/2012 03:06	Marie D John	31.09
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 14:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600014A	03/02/2012 05:26	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600014A	03/01/2012 02:30	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820007B	02/29/2012 18:57	Scott W Freisher	1

Sample Description: SB-8-14 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559008
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 14:10 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W0814

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0007	1.02
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.02
10237	Toluene	108-88-3	N.D.	0.001	1.02
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.02
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.8	33.13
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.0	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	26.1	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120611AA	03/01/2012 18:26	Chelsea B Eastep	1.02
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/22/2012 14:10	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/22/2012 14:10	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 14:10	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12060A34A	03/01/2012 03:42	Marie D John	33.13
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 14:10	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600014A	03/02/2012 05:49	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600014A	03/01/2012 02:30	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820007B	02/29/2012 18:57	Scott W Freisher	1

Sample Description: SB-14-4 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559009
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 14:30 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1404

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	0.008	0.0007	0.93
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.93
10237	Toluene	108-88-3	0.002	0.001	0.93
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.93
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.6	28.86
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.2	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	14	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	28.9	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120611AA	03/01/2012 18:49	Chelsea B Eastep	0.93
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/22/2012 14:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/22/2012 14:30	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 14:30	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12060A34A	03/01/2012 04:18	Marie D John	28.86
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 14:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600014A	03/02/2012 08:07	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600014A	03/01/2012 02:30	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820007B	02/29/2012 18:57	Scott W Freisher	1

Sample Description: SB-12-9 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559010
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 15:00 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1209

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.2	25.97
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
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
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	14.6	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120611AA	03/01/2012 19:12	Chelsea B Eastep	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/22/2012 15:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/22/2012 15:00	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 15:00	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12060A34A	03/01/2012 04:54	Marie D John	25.97
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 15:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600015A	03/02/2012 09:39	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600015A	03/01/2012 02:30	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820007B	02/29/2012 18:57	Scott W Freisher	1

Sample Description: SB-12-14 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559011
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 15:10 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1214

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10237	Benzene	71-43-2	N.D.	0.0006	0.9
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.9
10237	Toluene	108-88-3	N.D.	0.001	0.9
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.9
GC Volatiles ECY 97-602 NWTPH-Gx					
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.4	28.2
GC Petroleum ECY 97-602 NWTPH-Dx					
Hydrocarbons modified					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.8	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
Wet Chemistry SM20 2540 G					
00111	Moisture	n.a.	21.0	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120621AA	03/02/2012 06:01	Angela D Sneeringer	0.9
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/22/2012 15:10	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/22/2012 15:10	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 15:10	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12060A34A	03/01/2012 05:31	Marie D John	28.2
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 15:10	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600015A	03/02/2012 10:25	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600015A	03/01/2012 02:30	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820007B	02/29/2012 18:57	Scott W Freisher	1

Sample Description: SB-15-4 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559012
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 15:45 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1504

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Benzene	71-43-2	0.002	0.0006	0.99
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.99
10237	Toluene	108-88-3	N.D.	0.001	0.99
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.99
GC Volatiles ECY 97-602 NWTPH-Gx			mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.3	27.34
GC Petroleum ECY 97-602 NWTPH-Dx			mg/kg	mg/kg	
Hydrocarbons modified					
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
Wet Chemistry SM20 2540 G			%	%	
00111	Moisture	n.a.	14.5	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120621AA	03/02/2012 06:24	Angela D Sneeringer	0.99
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/22/2012 15:45	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/22/2012 15:45	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 15:45	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12060A34A	03/01/2012 06:06	Marie D John	27.34
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 15:45	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600015A	03/02/2012 12:43	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600015A	03/01/2012 02:30	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820007B	02/29/2012 18:57	Scott W Freisher	1

Sample Description: SB-10-13 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559013
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 16:10 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1013

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	mg/kg	
10237	Benzene	71-43-2	0.0008	0.0007	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.01
10237	Toluene	108-88-3	N.D.	0.001	1.01
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.01
GC Volatiles			ECY 97-602 NWTPH-Gx	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.8	33.1
GC Petroleum Hydrocarbons			ECY 97-602 NWTPH-Dx modified	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.0	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
Wet Chemistry			SM20 2540 G	%	
00111	Moisture	n.a.	24.6	0.50	1

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

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120621AA	03/02/2012 06:47	Angela D Sneeringer	1.01
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/22/2012 16:10	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/22/2012 16:10	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 16:10	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12060A34A	03/01/2012 06:42	Marie D John	33.1
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 16:10	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600015A	03/02/2012 10:48	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600015A	03/01/2012 02:30	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12060820007B	02/29/2012 18:57	Scott W Freisher	1

Sample Description: SB-10-10 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559014
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 16:25 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1010

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.91
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.91
10237	Toluene	108-88-3	N.D.	0.001	0.91
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.91
GC Volatiles			ECY 97-602 NWTPH-Gx	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.7	31.14
GC Petroleum Hydrocarbons			ECY 97-602 NWTPH-Dx modified	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.0	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
Wet Chemistry			SM20 2540 G	%	
00111	Moisture	n.a.	25.9	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120621AA	03/02/2012 07:10	Angela D Sneeringer	0.91
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/22/2012 16:25	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/22/2012 16:25	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 16:25	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12060A34A	03/01/2012 07:19	Marie D John	31.14
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 16:25	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600015A	03/02/2012 11:11	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600015A	03/01/2012 02:30	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12062820005A	03/02/2012 17:43	Scott W Freisher	1

Sample Description: SB-10-17 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559015
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 16:40 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1017

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.92
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.92
10237	Toluene	108-88-3	N.D.	0.001	0.92
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.92
GC Volatiles			ECY 97-602 NWTPH-Gx	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.3	24.61
The sample was re-extracted and reanalyzed outside of the method required holding time, and surrogate recoveries are within the QC acceptance limits. The result for this analysis was ND for GRO. The sample was originally extracted and analyzed twice within hold, but the surrogate TFT was not spiked into the sample. Those analyses resulted in GRO detections below the LOQ of 6218 ppb, with estimated concentrations of 2000 ppb. As per the client, the out of hold analysis is being reported.					
GC Petroleum Hydrocarbons			ECY 97-602 NWTPH-Dx modified	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.0	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
Wet Chemistry			SM20 2540 G	%	
00111	Moisture	n.a.	25.7	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120621AA	03/02/2012 13:17	Angela D Sneeringer	0.92
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/22/2012 16:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/22/2012 16:40	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 16:40	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12072A34A	03/12/2012 14:51	Marie D John	24.61

Sample Description: SB-10-17 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559015
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 16:40 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1017

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 16:40	Client Supplied	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201206826955	03/08/2012 09:58	Stephanie A Sanchez	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600015A	03/02/2012 11:34	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600015A	03/01/2012 02:30	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12062820005A	03/02/2012 17:43	Scott W Freisher	1

Sample Description: SB-16-4 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559016
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/22/2012 17:00 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1604

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	mg/kg	
10237	Benzene	71-43-2	0.002	0.0007	0.93
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.93
10237	Toluene	108-88-3	N.D.	0.001	0.93
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.93
GC Volatiles			ECY 97-602 NWTPH-Gx	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	2.0	34.19
GC Petroleum Hydrocarbons			ECY 97-602 NWTPH-Dx modified	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	5.7	4.4	1
08272	Heavy Range Organics C24-C40	n.a.	17	15	1
Wet Chemistry			SM20 2540 G	%	
00111	Moisture	n.a.	32.4	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120621AA	03/02/2012 07:33	Angela D Sneeringer	0.93
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/22/2012 17:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/22/2012 17:00	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/22/2012 17:00	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12060A34A	02/29/2012 20:28	Marie D John	34.19
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/22/2012 17:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600015A	03/02/2012 13:06	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600015A	03/01/2012 02:30	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12062820005A	03/02/2012 17:43	Scott W Freisher	1

Sample Description: SB-11-8 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559017
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/23/2012 08:50 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1108

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10237	Benzene	71-43-2	N.D.	0.0006	0.94
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.94
10237	Toluene	108-88-3	N.D.	0.001	0.94
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.94
GC Volatiles ECY 97-602 NWTPH-Gx					
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.6	29.4
GC Petroleum ECY 97-602 NWTPH-Dx					
Hydrocarbons modified					
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.0	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
Wet Chemistry SM20 2540 G					
00111	Moisture	n.a.	24.8	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120621AA	03/02/2012 07:56	Angela D Sneeringer	0.94
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/23/2012 08:50	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/23/2012 08:50	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/23/2012 08:50	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12060A34A	03/01/2012 07:55	Marie D John	29.4
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/23/2012 08:50	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600015A	03/02/2012 11:57	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600015A	03/01/2012 02:30	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12062820005A	03/02/2012 17:43	Scott W Freisher	1

Sample Description: SB-11-13 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559018
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/23/2012 09:00 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1113

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.99
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.99
10237	Toluene	108-88-3	N.D.	0.001	0.99
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.99
GC Volatiles			ECY 97-602 NWTPH-Gx	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.4	27.53
GC Petroleum Hydrocarbons			ECY 97-602 NWTPH-Dx modified	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.8	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
Wet Chemistry			SM20 2540 G	%	
00111	Moisture	n.a.	21.3	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120621AA	03/02/2012 08:19	Angela D Sneeringer	0.99
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/23/2012 09:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/23/2012 09:00	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/23/2012 09:00	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12061A34A	03/01/2012 20:02	Marie D John	27.53
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/23/2012 09:00	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600015A	03/02/2012 12:20	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600015A	03/01/2012 02:30	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12062820005A	03/02/2012 17:43	Scott W Freisher	1

Sample Description: SB-17-4 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559019
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/23/2012 09:15 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1704

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	mg/kg	
10237	Benzene	71-43-2	0.0009	0.0008	1.03
10237	Ethylbenzene	100-41-4	N.D.	0.002	1.03
10237	Toluene	108-88-3	N.D.	0.002	1.03
10237	Xylene (Total)	1330-20-7	N.D.	0.002	1.03
GC Volatiles			ECY 97-602 NWTPH-Gx	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	2.2	35.65
GC Petroleum Hydrocarbons			ECY 97-602 NWTPH-Dx modified	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	4.7	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	16	1
Wet Chemistry			SM20 2540 G	%	
00111	Moisture	n.a.	36.2	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120621AA	03/02/2012 08:42	Angela D Sneeringer	1.03
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/23/2012 09:15	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/23/2012 09:15	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/23/2012 09:15	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12061A34A	03/01/2012 20:38	Marie D John	35.65
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/23/2012 09:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600015A	03/02/2012 13:29	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600015A	03/01/2012 02:30	Sherry L Morrow	1
00111	Moisture	SM20 2540 G	1	12062820005A	03/02/2012 17:43	Scott W Freisher	1

Sample Description: SB-13-9 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559020
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/23/2012 09:30 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1309

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.93
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.93
10237	Toluene	108-88-3	N.D.	0.001	0.93
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.93
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.5	29.64
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
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
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	23.3	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120621AA	03/02/2012 09:04	Angela D Sneeringer	0.93
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/23/2012 09:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/23/2012 09:30	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/23/2012 09:30	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12061A34A	03/01/2012 21:14	Marie D John	29.64
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/23/2012 09:30	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600022A	03/07/2012 23:03	Michele D Hamilton	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600022A	03/01/2012 10:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12062820005A	03/02/2012 17:43	Scott W Freisher	1

Sample Description: SB-13-13 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559021
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/23/2012 09:35 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1313

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.95
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.95
10237	Toluene	108-88-3	N.D.	0.001	0.95
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.95
GC Volatiles			ECY 97-602 NWTPH-Gx	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.5	29.77
GC Petroleum Hydrocarbons			ECY 97-602 NWTPH-Dx modified	mg/kg	
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
Wet Chemistry			SM20 2540 G	%	
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 above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120621AA	03/02/2012 09:27	Angela D Sneeringer	0.95
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826860	02/23/2012 09:35	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826860	02/23/2012 09:35	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/23/2012 09:35	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12061A34A	03/01/2012 21:50	Marie D John	29.77
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/23/2012 09:35	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600022A	03/07/2012 23:45	Michele D Hamilton	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600022A	03/01/2012 10:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12062820005A	03/02/2012 17:43	Scott W Freisher	1

Sample Description: SB-14-8 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559022
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/23/2012 09:45 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1408

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.93
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.93
10237	Toluene	108-88-3	N.D.	0.001	0.93
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.93
GC Volatiles			ECY 97-602 NWTPH-Gx	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.5	29.82
GC Petroleum Hydrocarbons			ECY 97-602 NWTPH-Dx modified	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.8	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
Wet Chemistry			SM20 2540 G	%	
00111	Moisture	n.a.	20.5	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120621AA	03/02/2012 09:51	Angela D Sneeringer	0.93
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/23/2012 09:45	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/23/2012 09:45	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/23/2012 09:45	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12061A34A	03/01/2012 22:26	Marie D John	29.82
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/23/2012 09:45	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600022A	03/08/2012 00:06	Michele D Hamilton	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600022A	03/01/2012 10:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12062820005A	03/02/2012 17:43	Scott W Freisher	1

Sample Description: SB-14-12 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559023
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/23/2012 09:55 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1412

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.95
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.95
10237	Toluene	108-88-3	N.D.	0.001	0.95
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.95
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.3	27.93
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.6	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	12	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	15.8	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120621AA	03/02/2012 10:14	Angela D Sneeringer	0.95
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/23/2012 09:55	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/23/2012 09:55	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/23/2012 09:55	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12061A34A	03/01/2012 23:02	Marie D John	27.93
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/23/2012 09:55	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600022A	03/08/2012 00:27	Michele D Hamilton	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600022A	03/01/2012 10:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12062820005B	03/02/2012 17:43	Scott W Freisher	1

Sample Description: SB-15-8 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559024
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/23/2012 10:15 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1508

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.94
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.94
10237	Toluene	108-88-3	N.D.	0.001	0.94
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.94
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.6	29.74
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
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
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	23.9	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120621AA	03/02/2012 10:37	Angela D Sneeringer	0.94
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/23/2012 10:15	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/23/2012 10:15	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/23/2012 10:15	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12061A34A	03/01/2012 23:38	Marie D John	29.74
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/23/2012 10:15	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600022A	03/08/2012 00:47	Michele D Hamilton	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600022A	03/01/2012 10:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12062820005B	03/02/2012 17:43	Scott W Freisher	1

Sample Description: SB-15-12 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559025
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/23/2012 10:25 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1512

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.95
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.95
10237	Toluene	108-88-3	N.D.	0.001	0.95
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.95
GC Volatiles			ECY 97-602 NWTPH-Gx	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.3	28.23
GC Petroleum Hydrocarbons			ECY 97-602 NWTPH-Dx modified	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.6	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	12	1
Wet Chemistry			SM20 2540 G	%	
00111	Moisture	n.a.	15.5	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120621AA	03/02/2012 11:00	Angela D Sneeringer	0.95
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/23/2012 10:25	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/23/2012 10:25	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/23/2012 10:25	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12061A34A	03/02/2012 00:14	Marie D John	28.23
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/23/2012 10:25	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600022A	03/08/2012 01:08	Michele D Hamilton	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600022A	03/01/2012 10:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12062820005B	03/02/2012 17:43	Scott W Freisher	1

Sample Description: SB-15-14 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559026
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/23/2012 10:35 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1514

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0007	1.02
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.02
10237	Toluene	108-88-3	N.D.	0.001	1.02
10237	Xylene (Total)	1330-20-7	N.D.	0.001	1.02
GC Volatiles			ECY 97-602 NWTPH-Gx	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.4	27.78
GC Petroleum Hydrocarbons			ECY 97-602 NWTPH-Dx modified	mg/kg	
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
Wet Chemistry			SM20 2540 G	%	
00111	Moisture	n.a.	22.6	0.50	1

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

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120621AA	03/02/2012 11:23	Angela D Sneeringer	1.02
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/23/2012 10:35	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/23/2012 10:35	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/23/2012 10:35	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12061A34A	03/02/2012 00:51	Marie D John	27.78
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/23/2012 10:35	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600022A	03/08/2012 01:29	Michele D Hamilton	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600022A	03/01/2012 10:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12062820005B	03/02/2012 17:43	Scott W Freisher	1

Sample Description: SB-16-11 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559027
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/23/2012 10:45 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1611

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0005	0.88
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.88
10237	Toluene	108-88-3	N.D.	0.001	0.88
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.88
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.3	26.24
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
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
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	19.4	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120621AA	03/02/2012 11:46	Angela D Sneeringer	0.88
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/23/2012 10:45	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/23/2012 10:45	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/23/2012 10:45	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12061A34A	03/02/2012 01:27	Marie D John	26.24
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/23/2012 10:45	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600022A	03/08/2012 01:50	Michele D Hamilton	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600022A	03/01/2012 10:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12062820005B	03/02/2012 17:43	Scott W Freisher	1

Sample Description: SB-16-14 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559028
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/23/2012 10:55 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1614

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.93
10237	Ethylbenzene	100-41-4	0.005	0.001	0.93
10237	Toluene	108-88-3	N.D.	0.001	0.93
10237	Xylene (Total)	1330-20-7	0.008	0.001	0.93
GC Volatiles			ECY 97-602 NWTPH-Gx	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	1.3	1.3	25.94
GC Petroleum Hydrocarbons			ECY 97-602 NWTPH-Dx modified	mg/kg	
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
Wet Chemistry			SM20 2540 G	%	
00111	Moisture	n.a.	19.3	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120621AA	03/02/2012 12:08	Angela D Sneeringer	0.93
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/23/2012 10:55	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/23/2012 10:55	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/23/2012 10:55	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12061A34A	03/02/2012 02:39	Marie D John	25.94
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/23/2012 10:55	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600022A	03/08/2012 02:11	Michele D Hamilton	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600022A	03/01/2012 10:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12062820005B	03/02/2012 17:43	Scott W Freisher	1

Sample Description: SB-16-18 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559029
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/23/2012 11:05 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1618

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.96
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.96
10237	Toluene	108-88-3	N.D.	0.001	0.96
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.96
GC Volatiles			ECY 97-602 NWTPH-Gx	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.5	30.41
GC Petroleum Hydrocarbons			ECY 97-602 NWTPH-Dx modified	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.6	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	12	1
Wet Chemistry			SM20 2540 G	%	
00111	Moisture	n.a.	17.7	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120621AA	03/02/2012 12:31	Angela D Sneeringer	0.96
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/23/2012 11:05	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/23/2012 11:05	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/23/2012 11:05	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12061A34A	03/02/2012 03:15	Marie D John	30.41
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/23/2012 11:05	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600022A	03/08/2012 02:31	Michele D Hamilton	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600022A	03/01/2012 10:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12062820005B	03/02/2012 17:43	Scott W Freisher	1

Sample Description: SB-17-11 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559030
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/23/2012 11:20 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1711

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.96
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.96
10237	Toluene	108-88-3	N.D.	0.001	0.96
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.96
GC Volatiles			ECY 97-602 NWTPH-Gx	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.4	27.28
GC Petroleum Hydrocarbons			ECY 97-602 NWTPH-Dx modified	mg/kg	
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
Wet Chemistry			SM20 2540 G	%	
00111	Moisture	n.a.	19.7	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	X120621AA	03/02/2012 12:54	Angela D Sneeringer	0.96
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/23/2012 11:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/23/2012 11:20	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/23/2012 11:20	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12061A34A	03/02/2012 03:52	Marie D John	27.28
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/23/2012 11:20	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600023A	03/07/2012 20:38	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600023A	03/01/2012 10:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12062820005B	03/02/2012 17:43	Scott W Freisher	1

Sample Description: SB-17-14 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559031
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/23/2012 11:25 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1714

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.98
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.98
10237	Toluene	108-88-3	N.D.	0.001	0.98
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.98
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.4	27.79
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
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
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	18.4	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	A120621AA	03/02/2012 14:11	Chelsea B Eastep	0.98
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/23/2012 11:25	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/23/2012 11:25	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/23/2012 11:25	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12061A34A	03/02/2012 04:28	Marie D John	27.79
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/23/2012 11:25	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600023A	03/07/2012 21:19	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600023A	03/01/2012 10:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12062820005B	03/02/2012 17:43	Scott W Freisher	1

Sample Description: SB-17-16 Grab Soil Sample
Facility# 306490
333 6th Street - Woodland, WA

LLI Sample # SW 6559032
LLI Group # 1291715
Account # 11255

Project Name: 306490

Collected: 02/23/2012 11:35 by JW

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/25/2012 09:30

Reported: 03/14/2012 12:21

W1716

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0006	0.95
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.95
10237	Toluene	108-88-3	N.D.	0.001	0.95
10237	Xylene (Total)	1330-20-7	N.D.	0.001	0.95
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.5	28.77
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
08272	Diesel Range Organics C12-C24	n.a.	N.D.	3.8	1
08272	Heavy Range Organics C24-C40	n.a.	N.D.	13	1
Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	21.8	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX 8260 Soil	SW-846 8260B	1	A120621AA	03/02/2012 14:34	Chelsea B Eastep	0.95
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201205826859	02/23/2012 11:35	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201205826859	02/23/2012 11:35	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201205826858	02/23/2012 11:35	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12061A34A	03/02/2012 05:04	Marie D John	28.77
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201205826859	02/23/2012 11:35	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	120600023A	03/07/2012 21:40	Glorines Suarez-Rivera	1
11234	WA DRO NW DX Soils (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	120600023A	03/01/2012 10:00	Olivia Arosemena	1
00111	Moisture	SM20 2540 G	1	12062820005B	03/02/2012 17:43	Scott W Freisher	1

Quality Control Summary

Client Name: Chevron
Reported: 03/14/12 at 12:21 PM

Group Number: 1291715

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: A120621AA Sample number(s): 6559031-6559032								
Benzene	N.D.	0.0005	mg/kg	96	92	80-120	5	30
Ethylbenzene	N.D.	0.001	mg/kg	95	90	80-120	5	30
Toluene	N.D.	0.001	mg/kg	95	92	80-120	4	30
Xylene (Total)	N.D.	0.001	mg/kg	96	91	80-120	5	30
Batch number: R120661AA Sample number(s): 6559002								
Benzene	N.D.	0.025	mg/kg	100	101	80-120	1	30
1,2-Dibromoethane	N.D.	0.050	mg/kg	97	97	80-120	1	30
1,2-Dichloroethane	N.D.	0.050	mg/kg	93	93	71-129	0	30
Ethylbenzene	N.D.	0.050	mg/kg	90	90	80-120	0	30
n-Hexane	N.D.	0.050	mg/kg	82	93	48-126	12	30
Toluene	N.D.	0.050	mg/kg	98	98	80-120	0	30
Xylene (Total)	N.D.	0.050	mg/kg	92	92	80-120	0	30
Batch number: X120591AA Sample number(s): 6558974-6558985								
Benzene	N.D.	0.0005	mg/kg	99		80-120		
1,2-Dibromoethane	N.D.	0.001	mg/kg	97		80-120		
1,2-Dichloroethane	N.D.	0.001	mg/kg	98		71-129		
Ethylbenzene	N.D.	0.001	mg/kg	100		80-120		
n-Hexane	N.D.	0.001	mg/kg	102		48-126		
Toluene	N.D.	0.001	mg/kg	101		80-120		
Xylene (Total)	N.D.	0.001	mg/kg	104		80-120		
Batch number: X120602AA Sample number(s): 6558986-6558999								
Benzene	N.D.	0.0005	mg/kg	97	95	80-120	2	30
Ethylbenzene	N.D.	0.001	mg/kg	101	100	80-120	1	30
Toluene	N.D.	0.001	mg/kg	102	102	80-120	1	30
Xylene (Total)	N.D.	0.001	mg/kg	104	103	80-120	1	30
Batch number: X120611AA Sample number(s): 6559000-6559001,6559003-6559010								
Benzene	N.D.	0.0005	mg/kg	97	100	80-120	4	30
Ethylbenzene	N.D.	0.001	mg/kg	99	104	80-120	5	30
Toluene	N.D.	0.001	mg/kg	100	104	80-120	4	30
Xylene (Total)	N.D.	0.001	mg/kg	102	105	80-120	4	30
Batch number: X120621AA Sample number(s): 6559011-6559030								
Benzene	N.D.	0.0005	mg/kg	99	98	80-120	1	30
Ethylbenzene	N.D.	0.001	mg/kg	102	101	80-120	1	30
Toluene	N.D.	0.001	mg/kg	103	101	80-120	3	30
Xylene (Total)	N.D.	0.001	mg/kg	104	104	80-120	0	30
Batch number: 12063SLA026 Sample number(s): 6558978,6559002								
Benzo(a)anthracene	N.D.	0.00067	mg/kg	87		74-112		
Benzo(a)pyrene	N.D.	0.00067	mg/kg	90		70-109		
Benzo(b)fluoranthene	N.D.	0.00067	mg/kg	98		60-126		

*- 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: 1291715

Reported: 03/14/12 at 12:21 PM

<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>
Benzo(k)fluoranthene	N.D.	0.00067	mg/kg	85		65-130		
Chrysene	N.D.	0.00033	mg/kg	88		79-111		
Dibenz(a,h)anthracene	N.D.	0.00067	mg/kg	96		69-129		
Indeno(1,2,3-cd)pyrene	N.D.	0.00067	mg/kg	95		53-128		
1-Methylnaphthalene	N.D.	0.00067	mg/kg	83		72-114		
2-Methylnaphthalene	N.D.	0.00067	mg/kg	77		62-115		
Naphthalene	N.D.	0.00067	mg/kg	83		67-105		
Batch number: 12058A34A TPH by NWTPH-Gx soils	Sample number(s): 6558974-6558980, 6558983 N.D.	1.0	mg/kg	85		67-119		
Batch number: 12059A16A TPH by NWTPH-Gx soils	Sample number(s): 6558981-6558982, 6558989, 6558993, 6558996-6558998 N.D.	1.0	mg/kg	94		67-119		
Batch number: 12059A16B TPH by NWTPH-Gx soils	Sample number(s): 6558984-6558988, 6558990-6558992, 6558994-6558995 N.D.	1.0	mg/kg	94		67-119		
Batch number: 12060A34A TPH by NWTPH-Gx soils	Sample number(s): 6558999-6559014, 6559016-6559017 N.D.	1.0	mg/kg	84	75	67-119	12	30
Batch number: 12061A34A TPH by NWTPH-Gx soils	Sample number(s): 6559018-6559032 N.D.	1.0	mg/kg	90	93	67-119	4	30
Batch number: 12072A34A TPH by NWTPH-Gx soils	Sample number(s): 6559015 N.D.	1.0	mg/kg	88	86	67-119	2	30
Batch number: 120580012A >C10-C12 Aliphatic	Sample number(s): 6558978, 6559002 N.D.	1.0	mg/kg	70	85	31-137	19	50
>C10-C12 Aromatic	N.D.	1.0	mg/kg	94	101	22-119	7	50
>C12-C16 Aliphatic	N.D.	1.0	mg/kg	82	89	42-146	8	50
>C12-C16 Aromatic	N.D.	1.0	mg/kg	92	100	24-136	8	50
>C16-C21 Aliphatic	N.D.	3.0	mg/kg	84	90	57-111	7	50
>C16-C21 Aromatic	N.D.	2.0	mg/kg	95	103	34-143	8	50
>C21-C34 Aliphatic	N.D.	6.0	mg/kg	87	94	50-124	7	50
>C21-C34 Aromatic	N.D.	2.0	mg/kg	90	99	44-134	9	50
Batch number: 120580018A Diesel Range Organics C12-C24 Heavy Range Organics C24-C40	Sample number(s): 6558974-6558979 N.D.	3.0	mg/kg	68		60-120		
Batch number: 120590013A Diesel Range Organics C12-C24 Heavy Range Organics C24-C40	Sample number(s): 6558980-6558989 N.D.	3.0	mg/kg	71		60-120		
Batch number: 120590023A Diesel Range Organics C12-C24 Heavy Range Organics C24-C40	Sample number(s): 6558990-6558999 N.D.	3.0	mg/kg	79		60-120		
Batch number: 120600014A Diesel Range Organics C12-C24 Heavy Range Organics C24-C40	Sample number(s): 6559000-6559009 N.D.	3.0	mg/kg	72		60-120		
Batch number: 120600015A Diesel Range Organics C12-C24 Heavy Range Organics C24-C40	Sample number(s): 6559010-6559019 N.D.	3.0	mg/kg	70		60-120		
Batch number: 120600022A Diesel Range Organics C12-C24	Sample number(s): 6559020-6559029 N.D.	3.0	mg/kg	81		60-120		

*- 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: 1291715
Reported: 03/14/12 at 12:21 PM

<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>
Heavy Range Organics C24-C40	N.D.	10.	mg/kg					
Batch number: 120600023A	Sample number(s): 6559030-6559032							
Diesel Range Organics C12-C24	N.D.	3.0	mg/kg	81		60-120		
Heavy Range Organics C24-C40	N.D.	10.	mg/kg					
Batch number: 12061A08A	Sample number(s): 6558978,6559002							
Benzene	N.D.	0.0500	mg/kg	94	100	70-130	5	50
C5-C6 Aliphatic Hydrocarbons	N.D.	2.50	mg/kg	83	76	70-130	8	50
C6-C8 Aliphatic Hydrocarbons	N.D.	2.50	mg/kg	89	88	70-130	0	50
C8-C10 Aliphatic Hydrocarbons	N.D.	2.50	mg/kg	92	94	70-130	3	50
C8-C10 Aromatic Hydrocarbons	N.D.	2.50	mg/kg	96	97	70-130	1	50
Ethylbenzene	N.D.	0.0500	mg/kg	96	99	70-130	2	50
Methyl t-butyl ether	N.D.	0.0500	mg/kg	97	106	70-130	9	50
Toluene	N.D.	0.0500	mg/kg	96	93	70-130	4	50
o-Xylene	N.D.	0.0500	mg/kg	98	102	70-130	4	50
m,p-Xylenes	N.D.	0.100	mg/kg	97	102	70-130	5	50
Batch number: 12053049531A	Sample number(s): 6558984							
TOC Solids/Sludges Combustion	N.D.	0.0100	% by wt.	91		22-139		
Batch number: 12060820006A	Sample number(s): 6558974-6558989							
Moisture				100		99-101		
Batch number: 12060820006B	Sample number(s): 6558990-6558993							
Moisture				100		99-101		
Batch number: 12060820007A	Sample number(s): 6558994-6559003							
Moisture				100		99-101		
Batch number: 12060820007B	Sample number(s): 6559004-6559013							
Moisture				100		99-101		
Batch number: 12062820005A	Sample number(s): 6559014-6559022							
Moisture				100		99-101		
Batch number: 12062820005B	Sample number(s): 6559023-6559032							
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: A120621AA	Sample number(s): 6559031-6559032 UNSPK: 6559031								
Benzene	106		55-143						
Ethylbenzene	101		44-141						
Toluene	102		50-146						
Xylene (Total)	100		44-136						
Batch number: R120661AA	Sample number(s): 6559002 UNSPK: P563848								

*- 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: 03/14/12 at 12:21 PM

Group Number: 1291715

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>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Benzene	91	93	55-143	3	30				
1,2-Dibromoethane	87	87	54-129	2	30				
1,2-Dichloroethane	81	83	68-131	4	30				
Ethylbenzene	89	98	44-141	10	30				
n-Hexane	77	79	33-169	3	30				
Toluene	91	93	50-146	4	30				
Xylene (Total)	83	86	44-136	6	30				
Batch number: X120591AA Sample number(s): 6558974-6558985 UNSPK: P557879									
Benzene	105	107	55-143	2	30				
1,2-Dibromoethane	106	104	54-129	5	30				
1,2-Dichloroethane	106	105	68-131	4	30				
Ethylbenzene	104	101	44-141	6	30				
n-Hexane	116	118	33-169	1	30				
Toluene	106	106	50-146	3	30				
Xylene (Total)	106	103	44-136	7	30				
Batch number: 12063SLA026 Sample number(s): 6558978,6559002 UNSPK: P557822									
Benzo(a)anthracene	89	82	32-135	9	30				
Benzo(a)pyrene	91	85	57-117	7	30				
Benzo(b)fluoranthene	97	92	26-142	6	30				
Benzo(k)fluoranthene	82	76	49-145	8	30				
Chrysene	86	78	23-138	10	30				
Dibenz(a,h)anthracene	91	82	29-138	11	30				
Indeno(1,2,3-cd)pyrene	91	82	25-136	11	30				
1-Methylnaphthalene	83	76	25-142	9	30				
2-Methylnaphthalene	78	72	49-134	8	30				
Naphthalene	84	78	31-148	8	30				
Batch number: 12058A34A Sample number(s): 6558974-6558980,6558983 UNSPK: P556257									
TPH by NWTPH-Gx soils	88	82	39-118	6	30				
Batch number: 12059A16A Sample number(s): 6558981-6558982,6558989,6558993,6558996-6558998 UNSPK: P558768									
TPH by NWTPH-Gx soils	144*	142*	39-118	16	30				
Batch number: 12059A16B Sample number(s): 6558984-6558988,6558990-6558992,6558994-6558995 UNSPK: P558768									
TPH by NWTPH-Gx soils	144*	142*	39-118	16	30				
Batch number: 120580012A Sample number(s): 6558978,6559002 BKG: P552859									
>C10-C12 Aliphatic				76	77		2	25	
>C10-C12 Aromatic				84	81		4	25	
>C12-C16 Aliphatic				18	17		7 (1)	25	
>C12-C16 Aromatic				24	23		4 (1)	25	
>C16-C21 Aliphatic				3.2	N.D.		200* (1)	25	
>C16-C21 Aromatic				7.0	6.2		13 (1)	25	
>C21-C34 Aliphatic				N.D.	N.D.		0 (1)	25	
>C21-C34 Aromatic				7.4	6.8		8 (1)	25	
Batch number: 120580018A Sample number(s): 6558974-6558979 BKG: P552867									
Diesel Range Organics C12-C24				4.7			N.D.	200* (1)	20
Heavy Range Organics C24-C40				29			N.D.	200* (1)	20
Batch number: 120590013A Sample number(s): 6558980-6558989 BKG: 6558980									

*- 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: 03/14/12 at 12:21 PM

Group Number: 1291715

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>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
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: 120590023A	Sample number(s): 6558990-6558999 BKG: 6558990							
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: 120600014A	Sample number(s): 6559000-6559009 BKG: 6559000							
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: 120600015A	Sample number(s): 6559010-6559019 BKG: 6559010							
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: 120600022A	Sample number(s): 6559020-6559029 BKG: 6559020							
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: 120600023A	Sample number(s): 6559030-6559032 BKG: 6559030							
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: 12053049531A	Sample number(s): 6558984 UNSPK: P553752 BKG: P553752							
TOC Solids/Sludges Combustion	90	24-149			0.389	0.239	48* (1)	13
Batch number: 12060820006A	Sample number(s): 6558974-6558989 BKG: 6558989							
Moisture					31.2	31.0	1	15
Batch number: 12060820006B	Sample number(s): 6558990-6558993 BKG: 6558992							
Moisture					34.7	33.5	4	15
Batch number: 12060820007A	Sample number(s): 6558994-6559003 BKG: 6558994							
Moisture					14.0	13.5	4	15
Batch number: 12060820007B	Sample number(s): 6559004-6559013 BKG: 6559010							
Moisture					14.6	14.6	0	15
Batch number: 12062820005A	Sample number(s): 6559014-6559022 BKG: 6559017							
Moisture					24.8	23.9	4	15
Batch number: 12062820005B	Sample number(s): 6559023-6559032 BKG: 6559027							
Moisture					19.4	18.8	3	15

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: 8260 Ext. Soil Master w/GRO

*- 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: 03/14/12 at 12:21 PM

Group Number: 1291715

Surrogate Quality Control

Batch number: A120621AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6559031	99	99	100	100
6559032	100	102	100	101
Blank	99	102	100	100
LCS	100	101	100	101
LCSD	99	102	100	100
MS	100	103	100	99
Limits:	71-114	70-109	70-123	70-111

Analysis Name: 8260 Ext. Soil Master w/GRO

Batch number: R120661AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6559002	101	108	118	91
Blank	87	92	90	78
LCS	83	85	83	74
LCSD	84	89	85	77
MS	81	87	82	69*
MSD	86	90	85	72
Limits:	71-114	70-109	70-123	70-111

Analysis Name: 8260 Ext. Soil Master w/GRO

Batch number: X120591AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6558974	99	101	93	93
6558975	100	102	93	91
6558976	100	103	91	91
6558977	99	101	92	97
6558978	94	100	110	85
6558979	100	104	92	94
6558980	96	99	92	83
6558981	100	101	99	86
6558982	101	101	103	84
6558983	100	102	95	92
6558984	102	102	92	92
6558985	100	102	90	88
Blank	97	100	90	88
LCS	99	101	103	98
MS	100	108	104	99
MSD	99	104	104	98
Limits:	71-114	70-109	70-123	70-111

Analysis Name: 8260 Ext. Soil Master w/GRO

Batch number: X120602AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6558986	100	104	96	96
6558987	100	104	95	93
6558988	100	103	93	92
6558989	102	107	97	94
6558990	99	103	97	97

*- Outside of specification

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Quality Control Summary

Client Name: Chevron
Reported: 03/14/12 at 12:21 PM

Group Number: 1291715

Surrogate Quality Control

6558991	100	101	95	95
6558992	99	105	94	93
6558993	100	105	95	93
6558994	101	104	95	94
6558995	98	104	98	103
6558996	98	102	96	95
6558997	101	109	95	93
6558998	102	104	95	92
6558999	102	105	97	90
Blank	99	102	99	101
LCS	101	105	105	99
LCSD	98	103	106	99

Limits: 71-114 70-109 70-123 70-111

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: X120611AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6559000	100	105	95	94
6559001	99	101	95	93
6559003	96	100	96	99
6559004	96	101	96	97
6559005	101	105	95	91
6559006	101	104	106	75
6559007	101	106	98	96
6559008	101	104	95	95
6559009	100	102	95	89
6559010	101	105	95	90
Blank	101	103	96	95
LCS	99	105	105	97
LCSD	97	102	105	98

Limits: 71-114 70-109 70-123 70-111

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: X120621AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6559011	100	103	93	97
6559012	99	107	95	93
6559013	101	103	95	98
6559014	97	104	93	92
6559015	100	103	95	94
6559016	101	105	92	90
6559017	102	105	95	95
6559018	101	105	94	92
6559019	101	104	92	93
6559020	100	103	94	92
6559021	99	103	94	92
6559022	100	103	95	96
6559023	100	102	96	93
6559024	100	102	95	94
6559025	101	104	94	95
6559026	101	104	97	94
6559027	100	103	94	88
6559028	100	101	98	98
6559029	101	105	95	93

*- Outside of specification

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Quality Control Summary

Client Name: Chevron
Reported: 03/14/12 at 12:21 PM

Group Number: 1291715

Surrogate Quality Control

6559030	99	103	95	88
Blank	100	100	94	92
LCS	99	104	106	98
LCSD	101	103	106	99

Limits: 71-114 70-109 70-123 70-111

Analysis Name: PAH SIM 8270 Soil Microwave
Batch number: 12063SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6558978	115	89	90
6559002	138	57	86
Blank	105	90	91
LCS	111	95	91
MS	113	91	88
MSD	106	84	80

Limits: 53-152 38-142 46-149

Analysis Name: NWTPH-Gx soil C7-C12
Batch number: 12058A34A

	Trifluorotoluene-F
6558974	75
6558975	101
6558976	85
6558977	79
6558978	97
6558979	76
6558980	102
6558983	74
Blank	83
LCS	88
MS	88
MSD	80

Limits: 61-122

Analysis Name: NWTPH-Gx soil C7-C12
Batch number: 12059A16A

	Trifluorotoluene-F
6558981	85
6558982	127*
6558989	98
6558993	114
6558996	103
6558997	76
6558998	76
Blank	93
LCS	87
MS	83
MSD	82

Limits: 61-122

*- Outside of specification

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Quality Control Summary

Client Name: Chevron
Reported: 03/14/12 at 12:21 PM

Group Number: 1291715

Surrogate Quality Control

Analysis Name: NWTPH-Gx soil C7-C12
Batch number: 12059A16B
Trifluorotoluene-F

6558984	82
6558985	117
6558986	103
6558987	101
6558988	145*
6558990	114
6558991	82
6558992	63
6558994	164*
6558995	74
Blank	97
LCS	87
MS	83
MSD	82

Limits: 61-122

Analysis Name: NWTPH-Gx soil C7-C12
Batch number: 12060A34A
Trifluorotoluene-F

6558999	97
6559000	92
6559001	91
6559002	186*
6559003	99
6559004	76
6559005	89
6559006	75
6559007	89
6559008	86
6559009	90
6559010	88
6559011	83
6559012	84
6559013	78
6559014	84
6559016	73
6559017	78
Blank	84
LCS	88
LCSD	80

Limits: 61-122

Analysis Name: NWTPH-Gx soil C7-C12
Batch number: 12061A34A
Trifluorotoluene-F

6559018	74
6559019	77
6559020	77
6559021	80

*- 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: 03/14/12 at 12:21 PM

Group Number: 1291715

Surrogate Quality Control

6559022	78
6559023	77
6559024	74
6559025	86
6559026	89
6559027	73
6559028	75
6559029	87
6559030	78
6559031	75
6559032	75
Blank	95
LCS	87
LCSD	91

Limits: 61-122

Analysis Name: NWTPH-Gx soil C7-C12
Batch number: 12072A34A
Trifluorotoluene-F

6559015	63
Blank	82
LCS	84
LCSD	88

Limits: 61-122

Analysis Name: WA EPH in Soil
Batch number: 120580012A
Orthoterphenyl 1-chlorooctadecane

6558978	99	69
6559002	101	67
Blank	95	78
DUP	97	79
LCS	97	83
LCSD	103	82

Limits: 30-127 33-122

Analysis Name: NWTPH-Dx soil
Batch number: 120580018A
Orthoterphenyl

6558974	70
6558975	81
6558976	71
6558977	81
6558978	85
6558979	82
Blank	84
DUP	77
LCS	82

Limits: 50-150

*- Outside of specification

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Quality Control Summary

Client Name: Chevron
Reported: 03/14/12 at 12:21 PM

Group Number: 1291715

Surrogate Quality Control

Analysis Name: NWTPH-Dx soil
Batch number: 120590013A
Orthoterphenyl

6558980	86
6558981	84
6558982	84
6558983	83
6558984	82
6558985	86
6558986	83
6558987	87
6558988	84
6558989	84
Blank	84
DUP	84
LCS	85

Limits: 50-150

Analysis Name: NWTPH-Dx soil
Batch number: 120590023A
Orthoterphenyl

6558990	90
6558991	83
6558992	78
6558993	75
6558994	88
6558995	88
6558996	87
6558997	66
6558998	88
6558999	88
Blank	89
DUP	86
LCS	90

Limits: 50-150

Analysis Name: NWTPH-Dx soil
Batch number: 120600014A
Orthoterphenyl

6559000	87
6559001	86
6559002	94
6559003	87
6559004	88
6559005	86
6559006	84
6559007	85
6559008	85
6559009	85
Blank	86
DUP	85
LCS	87

*- 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: 03/14/12 at 12:21 PM

Group Number: 1291715

Surrogate Quality Control

Limits: 50-150

Analysis Name: NWT PH-Dx soil
Batch number: 120600015A
Orthoterphenyl

6559010	88
6559011	85
6559012	87
6559013	87
6559014	88
6559015	87
6559016	84
6559017	86
6559018	89
6559019	84
Blank	85
DUP	86
LCS	86

Limits: 50-150

Analysis Name: NWT PH-Dx soil
Batch number: 120600022A
Orthoterphenyl

6559020	86
6559021	87
6559022	82
6559023	85
6559024	88
6559025	86
6559026	85
6559027	89
6559028	88
6559029	89
Blank	93
DUP	89
LCS	92

Limits: 50-150

Analysis Name: NWT PH-Dx soil
Batch number: 120600023A
Orthoterphenyl

6559030	86
6559031	87
6559032	87
Blank	92
DUP	85
LCS	91

Limits: 50-150

Analysis Name: WA- VPH soils

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 03/14/12 at 12:21 PM

Group Number: 1291715

Surrogate Quality Control

Batch number: 12061A08A

	Trifluorotoluene-P	Trifluorotoluene-F
6558978	79	82
6559002	2155*	3664*
Blank	85	87
LCS	92	98
LCSD	96	99
Limits:	60-140	60-140

*- Outside of specification

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Chevron Northwest Region Analysis Request/Chain of Custody



NWRTB-306490-0-LAB

221683
 Acct. #: 11255 For Lancaster Laboratories use only Sample #: 6558974-9032 SCR#: 117661

Facility #: 306490
 Site Address: 333 6th Street Woodland, WA
 Chevron PM: M. Hermon Lead Consultant: SAIC
 Consultant/Office: Bothell, WA
 Consultant Prj. Mgr.: Ruth Otheman
 Consultant Phone #: 425-482-3328 Fax #: 425-485-5566
 Sampler: J. Wartes & J. Green
 Service Order #: _____ Non SAR:

Matrix		Analyses Requested												Preservative Codes													
		Preservation Codes												Preservative Codes													
<input type="checkbox"/> Potable <input type="checkbox"/> NPDES	<input type="checkbox"/> Water <input type="checkbox"/> Air	Total Number of Containers	<input type="checkbox"/> BTEX+MTBE	<input type="checkbox"/> 8021	<input type="checkbox"/> 8260	<input checked="" type="checkbox"/> Naphth	<input type="checkbox"/> 8260 full scan	Oxygenates	TPH G	TPH D	Extended Ring. Silica Gel Cleanup	Lead Total	<input type="checkbox"/> Diss.	<input type="checkbox"/> Method	VPHEPH	NWTPH/HClID	<input type="checkbox"/> quantification	Moisture	CPAH/naphthalene (8270 SIM)	EDB/EDC in hexane (8260 B)	FOL (US EPA method #)	H = HCl	T = Thiosulfate	N = HNO ₃	B = NaOH	S = H ₂ SO ₄	O = Other
			<input type="checkbox"/> J value reporting needed	<input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds																							

G# 1291715

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX+MTBE	8021	8260	Naphth	8260 full scan	Oxygenates	TPH G	TPH D	Extended Ring. Silica Gel Cleanup	Lead Total	Diss.	Method	VPHEPH	NWTPH/HClID	quantification	Moisture	CPAH/naphthalene (8270 SIM)	EDB/EDC in hexane (8260 B)	FOL (US EPA method #)
SB-1-4	2/21/12	1130	X		X				6	X			X			X	X											
SB-1-9	2/21/12	1210	X		X				6	X			X			X	X											
SB-2-4	2/21/12	1245	X		X				6	X			X			X	X											
SB-1-13	2/21/12	1220	X		X				6	X			X			X	X											
SB-2-13	2/21/12	1315	X		X				9	X			X			X	X					X			X	X		
SB-2-8	2/21/12	1425 ¹⁴¹⁵	X		X				6	X			X			X	X								X	X		
SB-2-19	2/21/12	1420	X		X				6	X			X			X	X							X				
SB-3-4	2/21/12	1450	X		X				6	X			X			X	X							X				
SB-4-4	2/21/12	1500	X		X				6	X			X			X	X							X				
SB-3-9	2/21/12	1515	X		X				6	X			X			X	X							X				
SB-3-13	2/21/12	1530	X		X				6	X			X			X	X							X				
SB-5-4	2/21/12	1540	X		X				6	X			X			X	X							X				
SB-6-4	2/21/12	1545	X		X				6	X			X			X	X							X				

Comments / Remarks
 No Silica gel cleanup for Dx Samples
 email analytical results to Ruth Otheman:
 othemanr@saic.com

Turnaround Time Requested (TAT) (please circle)
 STD. TAT 72 hour 48 hour
 24 hour 4 day 5 day

Relinquished by: <u>[Signature]</u>	Date: <u>2-13-12</u>	Time: <u>1127</u>	Received by: _____	Date: _____	Time: _____
Relinquished by: <u>[Signature]</u>	Date: <u>2/24/12</u>	Time: <u>1036</u>	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by Commercial Carrier: _____	Received by: _____		Date: <u>2/25/12</u>	Time: <u>0930</u>	
UPS FedEx Other _____	Temperature Upon Receipt: <u>20-28</u> °C		Custody Seals Intact? <u>Yes</u> No		

Data Package Options (please circle if required)
 QC Summary Type I - Full
 Type VI (Raw Data) Disk / EDD
 WIP (RWQCB) Standard Format
 Disk Other _____

Chevron Northwest Region Analysis Request/Chain of Custody



221684

For Lancaster Laboratories use only
 Acct. #: 11255 Sample #: 6558974-9032 SCR#: _____

NWRTB-306490-0-LAB

G#1291715

Facility #: <u>306490</u> Site Address: <u>333 6th St Woodland WA</u> Chevron PM: <u>M Hamman</u> Lead Consultant: <u>SATC</u> Consultant/Office: <u>Botwell WA</u> Consultant Prj. Mgr.: <u>Ruth Otkeman</u> Consultant Phone #: <u>425 482 3328</u> Fax #: <u>425 485 5566</u> Sampler: <u>J Warburton J Green</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____				Matrix <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air		Analyses Requested Preservation Codes <input type="checkbox"/> BTEX <input type="checkbox"/> 8260 full scan <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 <input type="checkbox"/> 8021 <input type="checkbox"/> Oxygenates <input checked="" type="checkbox"/> NPH G <input checked="" type="checkbox"/> PH D <input type="checkbox"/> Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method <input type="checkbox"/> VP/IEPH <input type="checkbox"/> quantification NWTPH HClID <u>monistone</u> <u>CPAH/Napthalene (8260 SIM)</u> <u>EDC/EDC-NH2 (8260 B)</u> <u>POC (US EPA method A)</u>										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 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							
Sample Identification		Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX	8260 full scan	Oxygenates	NPH G	PH D	Lead Total	Diss.	Method	VP/IEPH	NWTPH HClID	quantification	Comments / Remarks	
<u>SB-4-9</u>		<u>2/21/12</u>	<u>1615</u>	<u>X</u>		<u>X</u>				<u>6</u>	<u>X</u>			<u>X</u>	<u>X</u>							<u>X</u>	No silica gel clean up for samples email analytical results to Ruth Otkeman: otkeman@satc.com
<u>SB-4-14</u>		<u>2/21/12</u>	<u>1630</u>	<u>X</u>		<u>X</u>				<u>6</u>	<u>X</u>			<u>X</u>	<u>X</u>							<u>X</u>	
<u>SB-7-4</u>		<u>2/21/12</u>	<u>1645</u>	<u>X</u>		<u>X</u>				<u>6</u>	<u>X</u>			<u>X</u>	<u>X</u>							<u>X</u>	
<u>SB-5-11</u>		<u>2/22/12</u>	<u>0840</u>	<u>X</u>		<u>X</u>				<u>6</u>	<u>X</u>			<u>X</u>	<u>X</u>							<u>X</u>	
<u>SB-5-14</u>		<u>2/22/12</u>	<u>0850</u>	<u>X</u>		<u>X</u>				<u>6</u>	<u>X</u>			<u>X</u>	<u>X</u>							<u>X</u>	
<u>SB-8-4</u>		<u>2/22/12</u>	<u>0900</u>	<u>X</u>		<u>X</u>				<u>6</u>	<u>X</u>			<u>X</u>	<u>X</u>							<u>X</u>	
<u>SB-9-4</u>		<u>2/22/12</u>	<u>0920</u>	<u>X</u>		<u>X</u>				<u>6</u>	<u>X</u>			<u>X</u>	<u>X</u>							<u>X</u>	
<u>SB-6-9</u>		<u>2/22/12</u>	<u>0945</u>	<u>X</u>		<u>X</u>				<u>6</u>	<u>X</u>			<u>X</u>	<u>X</u>							<u>X</u>	
<u>SB-6-13</u>		<u>2/22/12</u>	<u>0955</u>	<u>X</u>		<u>X</u>				<u>6</u>	<u>X</u>			<u>X</u>	<u>X</u>							<u>X</u>	
<u>SB-6-14</u>		<u>2/22/12</u>	<u>1005</u>	<u>X</u>		<u>X</u>				<u>6</u>	<u>X</u>			<u>X</u>	<u>X</u>							<u>X</u>	
<u>SB-10-4</u>		<u>2/22/12</u>	<u>1040</u>	<u>X</u>		<u>X</u>				<u>6</u>	<u>X</u>			<u>X</u>	<u>X</u>							<u>X</u>	
<u>SB-7-10</u>		<u>2/22/12</u>	<u>1110</u>	<u>X</u>		<u>X</u>				<u>6</u>	<u>X</u>			<u>X</u>	<u>X</u>							<u>X</u>	
<u>SB-7-13</u>		<u>2/22/12</u>	<u>1120</u>	<u>X</u>		<u>X</u>				<u>6</u>	<u>X</u>			<u>X</u>	<u>X</u>							<u>X</u>	
Turnaround Time Requested (TAT) (please circle) STD. TAT 72 hour 48 hour 24 hour 4 day 5 day				Relinquished by: <u>Nancy Green</u> Date: <u>2/24/12</u> Time: <u>1036</u>				Received by: _____ Date: _____ Time: _____				Date: _____ Time: _____											
Data Package Options (please circle if required) QC Summary Type I - Full Type VI (Raw Data) Disk / EDD WIP (RWQCB) Standard Format Disk Other: _____				Relinquished by: _____ Date: _____ Time: _____				Received by: _____ Date: _____ Time: _____				Date: _____ Time: _____											
Relinquished by Commercial Carrier: UPS FedEx Other: _____				Temperature Upon Receipt: <u>1028</u> °C				Received by: _____ Date: <u>2/26/12</u> Time: <u>0932</u>				Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No											

Chevron Northwest Region Analysis Request/Chain of Custody



221690

For Lancaster Laboratories use only
 Acct. #: 11255 Sample #: 6558974-9032 SCR#:

NWRTB-306490-0-LAB

G# 1291715

Facility #: <u>306490</u> Site Address: <u>3336th St Woodland WA</u> Chevron PM: <u>M Harman</u> Lead Consultant: <u>SAIC</u> Consultant/Office: <u>Bothell, WA</u> Consultant Prj. Mgr.: <u>Ruth Otteman</u> Consultant Phone #: <u>425 482 3388</u> fax #: <u>425 485 5566</u> Sampler: <u>J Wantes / J Green</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____				Matrix <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air		Analysis Requested Preservation Codes <input type="checkbox"/> BTEX + MPBE - 8261 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan Oxygenates <input checked="" type="checkbox"/> TPH G <input checked="" type="checkbox"/> TPH D Extended Rtg. <input type="checkbox"/> Silica Gel Cleanup Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method VP/HEPH NWT/PH HClID <input type="checkbox"/> quantification <u>Must have</u> <u>8260 Naphthalene (8260)</u> <u>8260 TPH Hexane (8260)</u> <u>8260 TPH Hexane (8260)</u> <u>8260 TPH Hexane (8260)</u>										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 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											
Sample Identification		Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MPBE - 8261	8260 full scan	Oxygenates	TPH G	TPH D	Extended Rtg. Silica Gel Cleanup	Lead Total	Diss.	Method	VP/HEPH	NWT/PH HClID	quantification	8260 Naphthalene (8260)	8260 TPH Hexane (8260)	8260 TPH Hexane (8260)	8260 TPH Hexane (8260)	Comments / Remarks
<u>SB-11-4</u>		<u>2/22/12</u>	<u>1130</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>6</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												No silica gel cleanup for dx sampler email analytical results to Ruth Otteman - ottemanr@saic.com
<u>SB-9-9</u>		<u>2/22/12</u>	<u>1250</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>6</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<u>SB-9-13</u>		<u>2/22/12</u>	<u>1300</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>9</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>SB-9-19</u>		<u>2/22/12</u>	<u>1320</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>6</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<u>SB-9-17</u>		<u>2/22/12</u>	<u>1330</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>6</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<u>SB-12-4</u>		<u>2/22/12</u>	<u>1340</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>6</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<u>SB-13-4</u>		<u>2/22/12</u>	<u>1350</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>6</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<u>SB-8-9</u>		<u>2/22/12</u>	<u>1400</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>6</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<u>SB-8-14</u>		<u>2/22/12</u>	<u>1410</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>6</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<u>SB-14-4</u>		<u>2/22/12</u>	<u>1430</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>6</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<u>SB-12-9</u>		<u>2/22/12</u>	<u>1500</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>6</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<u>SB-12-14</u>		<u>2/22/12</u>	<u>1510</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>6</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<u>SB-15-4</u>		<u>2/22/12</u>	<u>1545</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>6</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
Turnaround Time Requested (TAT) (please circle) (STD. TAT) 72 hour 48 hour 24 hour 4 day 5 day						Relinquished by: <u>Yamalya</u> Date: <u>2/24/12</u> Time: <u>1037</u>			Received by: _____ Date: _____ Time: _____																		
Data Package Options (please circle if required) QC Summary Type I - Full Type VI (Raw Data) Disk / EDD WIP (RWQCB) Standard Format Disk _____ Other.						Relinquished by: _____ Date: _____ Time: _____			Received by: _____ Date: _____ Time: _____																		
Relinquished by: _____ Date: _____ Time: _____						Relinquished by: _____ Date: _____ Time: _____			Received by: _____ Date: <u>2/24/12</u> Time: _____																		
Temperature Upon Receipt: <u>2-2.9</u> C°						Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																					

Chevron Northwest Region Analysis Request/Chain of Custody



221685

Acct. #: 11255 For Lancaster Laboratories use only
 Sample #: 6558974-9032

SCR#: _____
 Q# 129175

NWRTB-306490-0-LAB

Facility #: 306490
 Site Address: 333 6th street Woodland WA
 Chevron PM: M Harman Lead Consultant: SATC
 Consultant/Office: Bothell, WA
 Consultant Prj. Mgr.: Ruth Otteman
 Consultant Phone #: 425 482 3328 Fax #: 425 485 5566
 Sampler: J Wanta / J Green
 Service Order #: _____ Non SAR:

Sample Identification			Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	Analyses Requested																			
												Preservation Codes																			
												BTEX + AEEB	8021	8260	Naphth	8260 full scan	Oxygenates	TPH G	TPH D	Extended Rng. Silica Gel Cleanup	Lead Total	Diss.	Method	VPHEPH	NWTPH HCl	quantification	TPH H	TPH L	TPH M	TPH S	
SB - 10-13			2/24/12	1610	X		X				6	X						X	X												
SB - 10-10			2/22/12	1625	X		X				6	X						X	X												
SB - 10-17			2/22/12	1640	X		X				6	X						X	X												
SB - 16-4			2/22/12	1700	X		X				6	X						X	X												
SB - 11-8			2/23/12	0830	X		X				6	X						X	X												
SB - 11-13			2/23/12	0900	X		X				6	X						X	X												
SB - 17-4			2/23/12	0915	X		X				6	X						X	X												
SB - 13-7			2/23/12	0930	X		X				6	X						X	X												
SB - 13-13			2/23/12	0935	X		X				6	X						X	X												
SB - 14-8			2/23/12	0945	X		X				6	X						X	X												
SB - 14-12			2/23/12	0955	X		X				6	X						X	X												
SB - 15-8			2/23/12	1015	X		X				6	X						X	X												
SB - 15-12			2/23/12	1025	X		X				6	X						X	X												

Preservative Codes
 H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

J value reporting needed
 Must meet lowest detection limits possible for 8260 compounds

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

Comments / Remarks
 No Silica gel cleanup for Dr Sampled
 email analytical results to Ruth Otteman:
 ottemanr@satc.com

Turnaround Time Requested (TAT) (please circle)

STD. TAT	72 hour	48 hour
24 hour	4 day	5 day

Relinquished by: <u>Jamelyn Green</u>	Date: <u>2/24/12</u>	Time: <u>1038</u>	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Data Package Options (please circle if required)

QC Summary	Type I - Full
Type VI (Raw Data)	Disk / EDD
WIP (RWQCB)	Standard Format
Disk	Other: _____

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by <input checked="" type="checkbox"/> Commercial Carrier:	Date:		Received by:	Date:	Time:
UPS <input checked="" type="checkbox"/> FedEx	Other: _____		Received by:	Date:	Time:
Temperature Upon Receipt: <u>20-22</u> °C	Custody Seals Intact?		Yes	No	

Chevron Northwest Region Analysis Request/Chain of Custody



NWRTB-306490-0-LAB

221687

For Lancaster Laboratories use only
 Acct. #: 11255 Sample #: 6558974-9032 SCR#: _____

Facility #: 306490
 Site Address: 333 6th St, Woodland, WA
 Chevron PM: M. Harmon Lead Consultant: SAIC
 Consultant/Office: Bothell, WA
 Consultant Prj. Mgr.: Ruth Otteman
 Consultant Phone #: 4254823328 Fax #: 4254855566
 Sampler: J Wastes & J Green
 Service Order #: _____ Non SAR:

Matrix	Analyses Requested																
	Preservation Codes																
<input type="checkbox"/> Potable Water <input type="checkbox"/> NPDES <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Air	Total Number of Containers																
	<input type="checkbox"/> BTEX + MTBE	<input type="checkbox"/> 8021	<input type="checkbox"/> 8260	<input type="checkbox"/> Naphth	<input type="checkbox"/> 8260 full scan	<input type="checkbox"/> Oxygenates	<input checked="" type="checkbox"/> MWTPH G	<input checked="" type="checkbox"/> Extended Rng. TPH D	<input type="checkbox"/> Silica Gel Cleanup	<input type="checkbox"/> Lead Total	<input type="checkbox"/> Diss. Method	<input type="checkbox"/> VP/IEPH	<input type="checkbox"/> NWTPH HClID	<input type="checkbox"/> quantification	<input type="checkbox"/> Moisture	<input type="checkbox"/> CPAH/naphthalene (8270 SIM)	<input type="checkbox"/> ED/EDC in Hexane (8260 B)

G# 1291715

Preservative Codes
 H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

J value reporting needed
 Must meet lowest detection limits possible for 8260 compounds

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

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE	8021	8260	Naphth	8260 full scan	Oxygenates	MWTPH G	Extended Rng. TPH D	Silica Gel Cleanup	Lead Total	Diss. Method	VP/IEPH	NWTPH HClID	quantification	Moisture	CPAH/naphthalene (8270 SIM)	ED/EDC in Hexane (8260 B)	FOC (USEPA Method A)		
SB-15-14	2/23/12	1035	X		X				6	X						X	X							X					
SB-16-11	2/23/12	1045	X		X				6	X						X	X							X					
SB-16-14	2/23/12	1055	X		X				6	X						X	X							X					
SB-16-18	2/23/12	1105	X		X				6	X						X	X							X					
SB-17-11	2/23/12	1120	X		X				6	X						X	X							X					
SB-17-14	2/23/12	1125	X		X				6	X						X	X							X					
SB-17-16	2/23/12	1135	X		X				6	X						X	X							X					
<i>Amalyn Jones</i>																													

Comments / Remarks
No Silica gel cleanup for Dx Samples
 email analytical results to Ruth Otteman @ ottemanr@saic.com

Turnaround Time Requested (TAT) (please circle)

STD. TAT 72 hour 48 hour
 24 hour 4 day 5 day

Relinquished by: *Amalyn Jones* Date: 2/24/12 Time: 1030

Received by: _____ Date: _____ Time: _____

Data Package Options (please circle if required)

QC Summary Type I - Full
 Type VI (Raw Data) Disk / EDD
 WIP (RWQCB) Standard Format
 Disk _____ Other.

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Relinquished by Commercial Carrier: _____ Received by: _____ Date: _____ Time: _____

UPS FedEx Other: _____

Temperature Upon Receipt: 9.9-11 °C Custody Seals Intact? Yes No

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
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 of gas 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.		

U.S. EPA CLP Data Qualifiers:

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

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

**Attachment B:
Boring Log - MW-1A**



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Monitoring Well: MW-1A

Project: Chevron Site No. 306490
Client: Chevron EMC
Location: 333 6th Ave, Woodland, WA
Logged By: A. Lembrick

Date Started: 8/15/2012
Date Completed: 8/15/2012
Driller: Stratus Corp.
Drill Method: Hand Auger/Direct Push

Total Boring Depth: 15 ft
Hole Diameter: 4/4 in
Well Depth: 15 ft
TOC Elevation: ft

Well Diameter: 2 in
Well Screen: 10-Slot; 10-20 ft
Filter Pack: 10/20 Colorado
Well Casing: Sch. 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	Analytical Results (mg/kg)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
Moist	0.0				SM		0	Topsoil and grass.	Well Box Concrete Seal
							1	(SM) Fine, brown, loose, silty SAND; no odor, no sheen.	
							2	Brown, loose, fine, silty SAND; no odor, no sheen.	Bentonite
Moist	0.0				ML		3	(ML) Brown, low plasticity, fine, soft, sandy SILT; no odor, no sheen.	
Moist	0.0						4	Brown, soft, fine, sandy SILT with low plasticity; no odor, no sheen.	
							5	Brown, fine, soft, low plasticity, soft, sandy SILT; no odor, no sheen.	
							6	Brown, soft, fine, sandy SILT with low plasticity; no odor, no sheen.	
Moist	0.0		MW-1A-6				6	Same as above; no odor, no sheen.	
							7		
Moist	0.0						8	(SP) Gray, loose, medium SAND; no odor, no sheen.	- 10/20 Colorado Sand Schedule 40 PVC pre-packed Screen - 0.010 Screen
			MW-1A-9				9	Same as above; no odor, no sheen.	
Moist	0.1						10	Same as above; no odor, no sheen.	
Wet	0.2				SP		11	Same as above; no odor, no sheen.	
Wet	0.1						12	Gray, medium, loose SAND; no odor, no sheen.	
Wet	0.2						13	Gray, loose, medium SAND; no odor, no sheen.	
Wet	0.2		MW-1A-14.5				14	Same as above; no odor, no sheen.	
Wet	0.1						15	Same as above; no odor, no sheen.	
							15	Bottom of borehole at 15.0 feet.	
							16		
							17		
							18		
							19		
							20		

Appendix C:
Laboratory Analytical Data - Monitoring Well Installation Results

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

August 28, 2012

Project: 306490

Submittal Date: 08/16/2012
Group Number: 1329297
PO Number: 0015094807
Release Number: HARMON
State of Sample Origin: WAClient Sample DescriptionMW-1A-9 Grab Soil Sample
MW-1A_081512 Grab Water Sample
QA-081512 Water SampleLancaster Labs (LL) #6756886
6756888
6756889

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

ELECTRONIC SAIC
COPY TO
ELECTRONIC SAIC
COPY TO

Attn: Julie Wartes

Attn: Don Wyl

Respectfully Submitted,



Jill M. Parker
Senior Specialist

(717) 556-7262

Sample Description: MW-1A-9 Grab Soil Sample
Facility# 306490
333 6th Ave - Woodland, WA

LLI Sample # SW 6756886
LLI Group # 1329297
Account # 11255

Project Name: 306490

Collected: 08/15/2012 11:20 by AL

Chevron

L4310

Submitted: 08/16/2012 09:20

6001 Bollinger Canyon Road

Reported: 08/28/2012 13:16

San Ramon CA 94583

6W1A9

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Volatiles		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02006	NWTPH-Gx soil C7-C12	n.a.	N.D.	1.3	28.59
GC Volatiles		SW-846 8021B	mg/kg	mg/kg	
08179	Benzene	71-43-2	N.D.	0.0064	28.59
08179	Ethylbenzene	100-41-4	N.D.	0.0064	28.59
08179	Toluene	108-88-3	N.D.	0.0064	28.59
08179	Total Xylenes	1330-20-7	N.D.	0.019	28.59
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
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
Wet Chemistry		SM20 2540 G	%	%	
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 above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02006	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	12229A31A	08/17/2012 09:25	Marie D John	28.59
08179	BTEX by 8021	SW-846 8021B	1	12229A31A	08/17/2012 09:25	Marie D John	28.59
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201222928522	08/15/2012 11:20	Client Supplied	n.a.
08272	NWTPH-Dx soil	ECY 97-602 NWTPH-Dx modified	1	122290029A	08/17/2012 14:40	Christine E Dolman	1
11234	WA DRO NW DX Soils (Non SG)	SW-846 3550B	1	122290029A	08/16/2012 22:00	Karen L Beyer	1
00111	Moisture	SM20 2540 G	1	12230820002A	08/17/2012 18:48	Scott W Freisher	1

Sample Description: MW-1A_081512 Grab Water Sample
Facility# 306490
333 6th Ave - Woodland, WA

LLI Sample # WW 6756888
LLI Group # 1329297
Account # 11255

Project Name: 306490

Collected: 08/15/2012 14:00 by AL

Chevron

L4310

Submitted: 08/16/2012 09:20

6001 Bollinger Canyon Road

Reported: 08/28/2012 13:16

San Ramon CA 94583

6W1A-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1
The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12231A94A	08/18/2012 16:33	Marie D John	1
02102	Method 8021 Water Master	SW-846 8021B	1	12231A94A	08/18/2012 16:33	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12231A94A	08/18/2012 16:33	Marie D John	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	122310001A	08/20/2012 14:28	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	122310001A	08/19/2012 16:30	Elaine F Stoltzfus	1

Sample Description: QA-081512 Water Sample
Facility# 306490
333 6th Ave - Woodland, WA

LLI Sample # WW 6756889
LLI Group # 1329297
Account # 11255

Project Name: 306490

Collected: 08/15/2012 14:10

Chevron

Submitted: 08/16/2012 09:20

L4310

Reported: 08/28/2012 13:16

6001 Bollinger Canyon Road
 San Ramon CA 94583

6WQA-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12231A94A	08/18/2012 15:16	Marie D John	1
02102	Method 8021 Water Master	SW-846 8021B	1	12231A94A	08/18/2012 15:16	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12231A94A	08/18/2012 15:16	Marie D John	1

Quality Control Summary

Client Name: Chevron Group Number: 1329297
Reported: 08/28/12 at 01:16 PM

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: 12229A31A	Sample number(s): 6756886							
Benzene	N.D.	0.0050	mg/kg	112	115	76-118	2	30
Ethylbenzene	N.D.	0.0050	mg/kg	103	109	77-115	5	30
NWTPH-Gx soil C7-C12	N.D.	1.0	mg/kg	94	101	67-119	7	30
Toluene	N.D.	0.0050	mg/kg	102	107	80-120	5	30
Total Xylenes	N.D.	0.015	mg/kg	101	106	78-115	5	30
Batch number: 12231A94A	Sample number(s): 6756888-6756889							
Benzene	N.D.	0.5	ug/l	101	99	80-120	2	30
Ethylbenzene	N.D.	0.5	ug/l	101	99	80-120	2	30
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	100	101	75-135	1	30
Toluene	N.D.	0.5	ug/l	101	99	80-120	2	30
Total Xylenes	N.D.	1.5	ug/l	104	101	80-120	3	30
Batch number: 122290029A	Sample number(s): 6756886							
Diesel Range Organics C12-C24	N.D.	3.0	mg/kg	78		60-120		
Heavy Range Organics C24-C40	N.D.	10.	mg/kg					
Batch number: 122310001A	Sample number(s): 6756888							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	61	71	50-120	14	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 12230820002A	Sample number(s): 6756886							
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: 122290029A	Sample number(s): 6756886 BKG: 6756886								
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: 12230820002A	Sample number(s): 6756886 BKG: P756150								
Moisture						18.3	18.9	3	13

*- 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: 08/28/12 at 01:16 PM

Group Number: 1329297

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: NWTPH-Gx soil C7-C12

Batch number: 12229A31A

	Trifluorotoluene-F	Trifluorotoluene-P
6756886	86	89
Blank	85	90
LCS	83	89
LCSD	87	92

Limits: 61-122 73-117

Analysis Name: Method 8021 Water Master

Batch number: 12231A94A

	Trifluorotoluene-P	Trifluorotoluene-F
6756888	86	77
6756889	87	99
Blank	86	75
LCS	86	90
LCSD	86	91

Limits: 51-120 63-135

Analysis Name: NWTPH-Dx soil

Batch number: 122290029A

Orthoterphenyl

6756886	97
Blank	98
DUP	101
LCS	97

Limits: 50-150

Analysis Name: NWTPH-Dx water w/ 10g Si Gel

Batch number: 122310001A

Orthoterphenyl

6756888	86
Blank	81
LCS	83
LCSD	93

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 # 671329247 Sample # 6756673-74
 Instructions on reverse side correspond with circled numbers.

1329247
6756885-89
③ 2-8-12

① Client Information				④ Matrix				⑤ Analyses Requested												SCR #: _____							
Facility # <u>306490</u>		WBS <u>NWRTB-306490-05-LAB</u>		Sediment <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Surface <input type="checkbox"/>		Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/>		Oil <input type="checkbox"/>		Total Number of Containers BTEX <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> 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 type="checkbox"/> <u>extd.</u>		Lead <input type="checkbox"/> Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method _____		WAVPH <input type="checkbox"/> WAEPH <input type="checkbox"/>		Moisture		<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>333 6th Avenue Woodland, WA</u>		Chevron PM <u>M Harmon</u>																									
② Sample Identification		Location		Collected		Grab	Composite	Soil	Water	Oil	Total	BTEX	8260	Oxygenates	NWTPH GX	NWTPH DX	Lead	WAVPH	WAEPH	Moisture	⑥ Remarks						
Date	Time	Date	Time																								
MW-1A-6	MW-1A	8/15/12	1110	X		X					3	X			X	X				X		NWRTB-Dx extd. Please send analytical results to Julie Wories at woriesj@saic.com in addition to the consultant PM Please hold soil samples until groundwater sample results are processed. MW-1A-9 entered per S. Brown. Di-wisicel on water per S. Brown. AMP 8/17/12					
MW-1A-9	MW-1A	8/15/12	1120	X		X					3	X			X	X				X							
MW-1A-1S	MW-1A	8/15/12	1130	X		X					3	X			X	X				X							
MW-1A-081S12	MW-1A	8/15/12	1400	X				X			5	X			X	X											
QA-081S12		8/15/12	1410	X				X			2	X			X												
_____				_____				_____				_____				_____											
⑦ Turnaround Time Requested (TAT) (please circle)				Relinquished by				Date		Time		Received by				Date		Time		⑨							
Standard 5 day 4 day				<u>Jul Yr</u>				8/15/12		1600		<u>Kristin Lough</u>				8-16-12		0920									
72 hour <u>48 hour</u> 24 hour																											
⑧ Data Package Options (please circle if required)				Relinquished by Commerical Carrier:				Received by				Date		Time													
Type I - Full Type VI (Raw Data)				UPS _____ FedEx <u>X</u> Other _____				<u>Kristin Lough</u>				8-16-12		0920													
				Temperature Upon Receipt <u>3.4</u> °C				Custody Seals Intact?				<u>Yes</u>		No													

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , 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 of gas 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	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

**Attachment D:
Laboratory Analytical Data - Excavation Results**

CHAIN-OF-CUSTODY RECORD

CLIENT: SAIC
 DATE: 9/11/12 PAGE 1 OF 1
 ADDRESS: 10822 Le North Creek Per Riley Suite 101
 Botell WA 98037
 PHONE: _____
 PROJECT NAME: Woodland
 LOCATION: Woodland WA
 COLLECTOR: Julie Wankel DATE OF COLLECTION: 9/11/12

CLIENT PROJECT #: 306490 PROJECT MANAGER: Dan Wyll

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES										Total Number of Containers	Laboratory Note Number	
					TRI-HALO	TRI-DIESEL & OIL	BTEX	VOC 8280	Semivol 8270	PCB's 802	PCRA & Metals	Asbestos-PLM	GRO Sulfide	DRO Sulfide			WO Sulfide
1. Stockpile - 1	NA	1101	Soil	40B	X	X	X	X	X	X	X	X	X	X	X		
2. Stockpile - 2	NA	1103	↓	↓	X	X	X	X	X	X	X	X	X	X	X		
3. Stockpile - 3	NA	1105	↓	↓	X	X	X	X	X	X	X	X	X	X	X		
4. Ex-1-12	↓	1120	↓	↓	X	X	X	X	X	X	X	X	X	X	X		
5. Ex-2-13	↓	1125	↓	↓	X	X	X	X	X	X	X	X	X	X	X		
6. Ex-3-10	↓	1310	↓	↓	X	X	X	X	X	X	X	X	X	X	X		
7.																	
8.																	
9.																	
10.																	
11.																	
12.																	
13.																	
14.																	
15.																	
16.																	
17.																	
18.																	

LABORATORY NOTES: Mobik Lab

RECEIVED BY (Signature) DATE/TIME: [Signature] 9/11/12

RECEIVED BY (Signature) DATE/TIME: [Signature]

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SEALS Y/N/NA

SEALS INTACT? Y/N/NA

RECEIVED GOOD COND./COLD

NOTES:

Turn Around Time: 24 HR 48 HR 5 DAY

SAMPLE DISPOSAL INSTRUCTIONS

ESN DISPOSAL @ \$2.00 each Return Pickup

ESN NORTHWEST CHEMISTRY LABORATORY

SAIC
 WOODLAND PROJECT
 Client Project #306490
 Woodland, Washington

ESN Northwest
 1210 Eastside Street SE Suite 200
 Olympia, WA 98501
 (360) 459-4670 (360) 459-3432 Fax
 lab@esnnw.com

**Analysis of Diesel Range Organics & Lube Oil Range Organics in Soil
 by Method NWTPH-Dx/Dx Extended**

Sample Number	Date Prepared	Date Analyzed	Surrogate Recovery (%)	Diesel Range Organics (mg/kg)	Lube Oil Range Organics (mg/kg)
Method Blank	9/11/2012	9/11/2012	99	nd	nd
LCS	9/11/2012	9/11/2012	94	139%	---
Stockpile-1	9/11/2012	9/11/2012	86	nd	nd
Stockpile-2	9/11/2012	9/11/2012	91	nd	nd
Stockpile-3	9/11/2012	9/11/2012	86	nd	nd
Stockpile-3 Duplicate	9/11/2012	9/11/2012	95	nd	nd
EX-1-12	9/11/2012	9/11/2012	89	nd	nd
EX-2-13	9/11/2012	9/11/2012	91	nd	nd
EX-3-16	9/11/2012	9/11/2012	92	nd	nd
EX-3-16 Duplicate	9/11/2012	9/11/2012	92	nd	nd
Reporting Limits				100	200

"nd" Indicates not detected at the listed detection limits.
 "int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 50% TO 150%

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Analysis of Gasoline Range Organics & BTEX in Soil by Method NWTPH-Gx/8260

Sample Number	Date Prepared	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline Range Organics (mg/kg)	Surrogate Recovery (%)
Method Blank	9/11/2012	9/11/2012	nd	nd	nd	nd	nd	105
LCS	9/11/2012	9/11/2012	90%	102%	104%	100%	111%	92
LCSD	9/11/2012	9/11/2012	113%	99%	102%	97%	---	100
Stockpile-1	9/11/2012	9/11/2012	nd	nd	nd	nd	nd	101
Stockpile-2	9/11/2012	9/11/2012	nd	nd	nd	nd	nd	111
Stockpile-3	9/11/2012	9/11/2012	nd	nd	nd	nd	nd	107
Stockpile-3 Duplicate	9/11/2012	9/11/2012	nd	nd	nd	nd	nd	106
EX-1-12	9/11/2012	9/11/2012	nd	nd	nd	nd	nd	108
EX-2-13	9/11/2012	9/11/2012	nd	nd	nd	nd	nd	107
EX-3-16	9/11/2012	9/11/2012	nd	nd	nd	nd	nd	120
Reporting Limits			0.02	0.05	0.05	0.15	10	

**** indicates that the sample was not analyzed due to the diesel analysis being above 2000ppm

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Bromofluorobenzene) & LCS: 65% TO 135%