

Prepared for:
Chevron Environmental Management Company
San Ramon, California



Well Installation Report

Chevron Site No. 352300
Former Standard Oil Bulk Plant No. 100152
State Route 274
Tekoa, Washington

ENSR Corporation
November 2008
Project No.: 01231-411

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1.0 INTRODUCTION

This report presents the results of ENSR's August 2008 groundwater monitoring well installation activities at the former Standard Oil Bulk Plant No. 1001152 (the Site) (Figure 1) located at State Route 274 in Tekoa, Washington. The intent of the subsurface investigation was to supplement the soil and groundwater characterization information obtained during ENSR's initial field investigation¹ at the Site in October 2007. This subsurface investigation was described in ENSR's *Groundwater Monitoring Well Installation Work Plan* dated June 26, 2008. The scope of work generally consisted of the following activities:

- Collected soil samples from seven onsite soil borings, all of which were completed as groundwater monitoring wells (Figure 2).
- Surveyed the location and top-of-casing elevation of each well.
- Collected groundwater samples from four newly installed groundwater monitoring wells, following well development. Three of the newly installed wells were dry at the time of sampling.
- Analyzed soil and groundwater samples for a range of petroleum constituents.
- Prepared this report of findings.

2.0 BACKGROUND

2.1 Site History

The Site was purchased by Standard Oil Company (now Chevron Corporation) in 1917. It was the site of a petroleum fuels bulk storage plant until the plant's closure in 1975. Tax assessment records indicate that three 19,995-gallon horizontal aboveground tanks (ASTs) formerly were located on the Site. Assessment records also identify the presence of an 18,137-gallon AST; however, the location of this AST is unknown. The ASTs likely were removed from the Site following plant closure. Buildings associated with the plant remained until 2005, including a garage, warehouse, office, and pump house. The approximate locations of the former structures and tanks at the Site are depicted in Figure 2. From the late 1970s to 2004, the Site was leased to Cash Hardware Company, which used the Site to store John Deere farm equipment. Cash Hardware ceased using the Site in 2004 and all buildings were demolished in 2005, under Chevron direction.

In October 2007, ENSR performed an onsite subsurface soil and groundwater investigation that included advancing 14 soil borings and installing and sampling eight temporary groundwater monitoring wells. Based on ENSR's review of the analytical data from this investigation, residual petroleum hydrocarbon (PHC) impacts to soil are generally present near the soil/groundwater interface (capillary fringe) between 5 to 8 feet below ground surface (bgs) in the southeast portion of the property, near the former warehouse, loading rack, office, pumphouse, and ASTs. Similarly, groundwater impacts were observed in these same areas and in the north-central portion of the property near the former garage. These soil and groundwater impacts presumably are attributable to former bulk plant operations.

2.2 Site Vicinity General Characteristics and Current Use of the Site

The Site is located immediately east of the City of Tekoa, in Whitman County, Washington (Figure 1). The Site is located in a shallow valley formed by Little Hangman Creek (Figure 1). Ground surface elevation at the Site is approximately 2,490 feet above mean sea level (msl). Major local topographic features are composed of: (1) rolling Palouse hills to the north, east, and south, rising to approximately 2,600 feet above msl; (2) Tekoa

¹ ENSR Corporation, "Soil and Groundwater Investigation; Chevron Site No. 1001152; State Route 274; Tekoa, Washington," February 2008.

Mountain to the northwest, rising to an elevation of approximately 4,000 feet above msl; and (3) the shallow valley formed by the main branch of Hangman Creek to the west and southwest.

Based on elevation profiles and topographic maps, surface runoff from the Site flows toward Little Hangman Creek. Little Hangman Creek flows southwesterly, joining the main branch of Hangman Creek approximately one-half mile from the Site.

The Site covers an area of approximately 1.14 acres, according to the Whitman County Tax Assessor, and is currently undeveloped. The only Site features are perimeter chain-link fencing, one electrical utility pole, and a concrete bridge over Little Hangman Creek. Access to the Site is provided by an unimproved road located near the northwest corner of the Site, off Washington State Route 274. The surrounding properties are undeveloped or primarily used for agricultural purposes. A brief description of current land use on nearby properties is provided below:

- Located to the north are Little Hangman Creek, agricultural land, and State Highway 274;
- Immediately east is agricultural land;
- The Site's southern boundary is defined by a former Union Pacific Railroad right-of-way (all railroad tracks and ties have been removed). Further south is agricultural land; and
- Immediately west is agricultural land. Further west, approximately 2,100 feet, is downtown Tekoa.

3.0 PURPOSE AND SCOPE OF WORK

The primary purpose of ENSR's August 2008 assessment was to further characterize the extent of soil and groundwater contamination beneath the Site. The specific scope of work completed by ENSR included the following:

1. Prepared a Site- and activity-specific health and safety plan (HASP), based on the requirements of the Occupational Safety and Health Administration Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910.120). This HASP was implemented by ENSR and the drilling subcontractors during field activities.
2. Arranged for a one-call public utility locate by the Washington Utility Notification Service. This was followed by a private utility locate performed by ULS Services (ULS) of Portland, Oregon, for the area of investigation. The ULS survey consisted of closely-spaced traverses using ground-penetrating radar and magnetics to identify locations of potential underground utilities and other substructures near the proposed exploration locations.
3. Identified seven onsite groundwater monitoring well locations based on historical bulk plant uses and analytical data collected during ENSR's October 2007 subsurface investigation.
4. Oversaw additional utility clearance at each soil boring location using air knife and soil vacuum extraction. Six soil boring (MW-1 through MW-4, MW-6, and MW-7) were cleared to a depth of approximately 8 feet bgs and one location (MW-5) was cleared to a depth of approximately 3.5 feet bgs. Soil boring MW-5 could not be cleared to a depth of 8 feet bgs due to concrete debris in this area.
5. Provided direction and oversight during the drilling of soil borings and construction of groundwater monitoring wells.
6. Collected soil samples in the first eight feet bgs (during air-knifing operations) from each soil boring location using a hand auger and continuous core soil samples below eight feet bgs when drilling with the mini sonic rig. Soil samples were classified according to the unified soils classification system, and field screened, using a photoionization detector (PID), for the presence of volatile petroleum hydrocarbons. Select soil samples collected from the borings were analyzed for:

- Benzene, ethylbenzene, toluene, and total xylenes (BETX) by EPA Method 8021B;
 - Total petroleum hydrocarbons (TPH) as gasoline (TPH-G) by Northwest Method NWTPH-Gx; and
 - TPH as diesel (TPH-D) and heavy oil (TPH-O) by Northwest Method NWTPH-Dx, with acid and silica gel cleanup.
7. Collected groundwater samples from four newly installed groundwater monitoring wells. Groundwater samples were analyzed for:
 - TPH-G by Northwest Method NWTPH-Gx;
 - TPH-D and TPH-O by Northwest Method NWTPH-Dx, with acid/silica gel cleanup;
 - VOCs by EPA Method 8260B;
 - Polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8270 SIM; and
 - Total and dissolved lead by EPA Method 6020. Samples for dissolved lead analysis were filtered in the field.
 8. Submitted all soil and groundwater samples to a Washington State certified laboratory for analysis, while observing appropriate sample preservation and chain-of-custody procedures.
 9. Oversaw decontamination of drilling equipment and decontaminated all sampling tools with potential for contacting soil or groundwater samples.
 10. Oversaw survey of location and top-of-casing elevation of each well and the locations of soil borings from the October 2007 investigation. The survey activities were performed by Statewide Land Surveying of Gresham, Oregon.
 11. Oversaw air knifing activities near the center of the Site to investigate an anomaly, identified during the private utility locate. The investigation revealed an abandoned steel drum, which was left in place and covered with pea gravel.
 12. Oversaw the removal of investigation derived wastes.
 13. Evaluated field and laboratory analytical data relative to the Washington Model Toxics Control Act² (MTCA) Method A cleanup levels.
 14. Prepared this report of findings.

4.0 SUBSURFACE EXPLORATIONS

4.1 Sampling Strategy

The groundwater monitoring wells were located at the locations shown on Figure 2 to investigate specific areas of concern according to the following rationale:

² Model Toxics Control Act Cleanup Regulation, Chapter 173-340, Washington Administrative Code.

Well Number ID	Area of Concern and Rationale for Selection of Location
MW-1 and MW-3	<u>Northwest Portion of the Site.</u> Wells MW-1 and MW-3 were positioned to assess groundwater downgradient of the former warehouse and associated loading docks, where PHC contaminated groundwater was encountered during ENSR's previous subsurface investigation, and to determine if PHCs may be migrating offsite toward the Creek.
MW-2	<u>Central Portion of the Site.</u> Well MW-2 was positioned to assess groundwater immediately downgradient (to the west) of the former loading dock of the former storage warehouse, where PHC contaminated soils and groundwater were encountered during ENSR's previous subsurface investigation.
MW-4	<u>Former Garage.</u> Well MW-4 was positioned adjacent to and north of the former garage, along the northern Site boundary, to assess (1) the potential presence of PHCs in the vadose zone soils in the vicinity of the former garage and (2) the potential presence of PHC contaminants in groundwater that may have migrated north-northwest from the former bulk plant facilities located in the south central and southeast portions of the Site.
MW-5	<u>Eastern Central Portion of the Site.</u> Well MW-5 was positioned to assess groundwater downgradient of the former ASTs, where PHC contaminated soils and groundwater were encountered during ENSR's previous subsurface investigation.
MW-6	<u>Former ASTs.</u> Well MW-6 was positioned to assess potential releases from the former ASTs. ENSR was unable to investigate this area during the October 2007 subsurface investigation due to subsurface obstructions (i.e. concrete was encountered at depths ranging from approximately two- to six-feet bgs during air-knifing operations).
MW-7	<u>Former Warehouse.</u> Well MW-7 was installed in the vicinity of the former warehouse to assess and confirm PHC concentrations encountered in this area during ENSR's previous subsurface investigation.

4.2 Subsurface Conditions

The Site is located in the Columbia River Plateau physiographic province, an area characterized by an extraordinary extent of flood basalt units situated between the Cascade and Rocky Mountains drained by the Columbia River. Geological information provided in the Environmental Data Resources database report for the Property (included in ENSR's 2007 Review for Sources and Receptors³) indicates that the Site is located in an area where the rock stratigraphic sequence is identified as Cenozoic era, Tertiary system, and Miocene volcanic rocks series. The predominant soil types in the area of the Site are:

- Thatuna, a moderately well-drained silt loam with slow infiltration rates; typical depth to water table is 3 to 6 feet;
- Caldwell, a somewhat poorly-drained silt loam with slow infiltration rates; typical depth to water table is 3 to 6 feet; and
- Palouse, well-drained silt loam with moderate infiltration rates; typical depth to water table is greater than 6 feet.

These silt loam soils are underlain by basalt bedrock.

³ ENSR Corporation, "Abandonment Process Review for Sources and Receptors, Former Chevron Bulk Plant No. 1001152, Tekoa, Washington," September 2007.

Soils encountered during the August 2008 investigation consisted of brown to gray, non-plastic to high-plasticity fines (predominately clays) with varying amounts of fine to coarse sands and gravels to the total depth explored. Basalt bedrock was encountered at depths ranging from approximately 9 to 11.5 feet bgs. Weathered and degraded basalt likely contributes to soils overlying the basalt. Soil descriptions and classifications are presented on the well construction logs in Appendix A.

On August 7, 2008, a top of casing (TOC) elevation survey, described in more detail in Section 4.4, was performed to allow ENSR to convert groundwater level data to elevations above msl. Following surveying activities, each monitoring well was gauged, relative to the TOC, using an electronic water-level meter. Depth to groundwater in wells MW-1, MW-3, MW-4, and MW-7 ranged from 5.89 feet below top of casing (TOC) at well MW-7 to 6.50 feet below TOC at well MW-4. Groundwater was not encountered in wells MW-2, MW-5, and MW-6. Groundwater elevations based on msl (NAV83) ranged from 2,487.60 feet at well MW-4 to 2,489.77 feet at well MW-7. According to groundwater elevations determined on August 7, 2008, the groundwater flow direction beneath the Site is to the north-northwest toward Little Hangman Creek. Depth to groundwater and groundwater elevations are presented in Table 2 and Figure 4.

4.3 Soil Sampling

On August 5, 2008, Boart Longyear, a Washington State licensed driller from Fife, Washington, completed the soil borings and well installations. Drilling was performed using a mini-sonic rig and the borings were advanced until the drilling rig met refusal due to the underlying bedrock at depths ranging from approximately 9- to 11.5-feet bgs. Soil samples were collected from soil borings MW-1 through MW-7 at depth intervals of approximately two to seven feet bgs for field screening of volatile petroleum hydrocarbons and for soil classification. Grab samples were collected in the first eight feet with a hand auger, and at greater depths with a Sonic continuous core sampler. Field screening was performed by placing a portion of soil in a plastic Ziploc bag, and then measuring ionizable soil gases in the headspace using a calibrated MiniRAE 2000 PID. Sample headspace readings ranged between non-detectable to approximately 122 parts per million (ppm). Refer to Appendix A for PID measurements obtained during soil screening at each boring location.

Soil samples were collected for laboratory analysis from six soil boring locations at depths of 6- and 7.5-feet bgs, directly above the water table in the zone of seasonal groundwater fluctuation. Due to presence of concrete debris, ENSR was only able to collect a soil sample at 3.5 feet bgs in boring MW-5. During drilling, groundwater was encountered at depths between approximately 5- and 7-feet bgs. Each sample was labeled, placed into an iced cooler, and transported via priority overnight mail to Lancaster Laboratories in Lancaster, Pennsylvania, using standard chain-of-custody protocol. Soil samples were analyzed for BETX, TPH-G, TPH-D, and TPH-O, as noted in Section 3.0, above (Table 1 and Figure 3).

4.4 Well Construction and Development

All of the groundwater monitoring wells were installed under the supervision of a geologist licensed in Washington State. The wells were constructed in accordance with the *Water Well Construction Act*, Chapter 18.104 Revised Code of Washington, and the *Minimum Standards for Construction and Maintenance of Wells*, Chapter 173-160 Washington Administrative Code. A Washington State Department of Ecology (Ecology) Unique Well Identification tag was attached on each well.

Each well was completed with 2-inch inside diameter (ID) Schedule 40 polyvinyl chloride (PVC) casing with 5- to 7-feet of 0.010-inch slotted screen. Final screen setting depths were determined based on the depth of the bedrock in each boring. The screens were packed with 10-20 silica sand and the sand pack was extended approximately one-foot above the tops of the screens. The annular space of each well was then sealed with hydrated bentonite chips to approximately one-foot bgs. The monitoring wells were completed at ground surface with traffic-rated road boxes set into a concrete slab (24-inch x 24-inch x 6 inch). Locking PVC caps were installed on the tops of the risers. Well Construction details are presented in Appendix A.

The wells were developed by surging and pumping with a clean down-hole pump and tubing at least 24 hours following construction. Development was considered complete when the water became clear and as free of sediment as practicable.

Groundwater monitoring well locations and TOC elevations were surveyed on August 7, 2008, by Statewide Land Surveying, a Washington State licensed surveyor from Gresham, Oregon. The TOC of each monitoring well was surveyed to an accuracy of +/- 0.01 feet relative to the permanent Site specific benchmark. This control is a 1/2-inch iron surveying pin (rebar) with a plastic cap located in the central portion of the Site at an elevation of 2,495.70 feet above msl. The survey was completed using the Washington State Plane Coordinate System NAD 83 South Zone 4602 Horizontal Datum and the NAVD 83 Vertical Datum. A copy of the survey is found in Appendix C.

4.5 Groundwater Sampling Methods

On August 7, 2008, groundwater samples were collected from monitoring wells MW-1, MW-3, MW-4, and MW-7 using a peristaltic pump and low flow (minimal drawdown) sampling procedures. Prior to sampling, the wells were purged at a maximum rate of 0.2 liters per minute, while water quality indicator parameters (i.e., temperature, pH, specific conductance, oxidization reduction potential, dissolved oxygen, and turbidity) were recorded at regular intervals. When the parameters stabilized, samples were pumped directly into clean, laboratory-supplied containers. Each sample was labeled, placed into an iced cooler, and transported via FedEx priority overnight service to Lancaster Laboratories in Lancaster, Pennsylvania. Samples were stored and transported under standard chain-of-custody protocol. Groundwater monitoring well MW-1 purged dry before water quality indicator parameters stabilized; groundwater samples were collected immediately following recharge. Wells MW-3, MW-4, and MW-7 purged dry during sample collection; therefore, sampling was completed after allowing the wells to recharge.

All groundwater samples were analyzed for the presence of TPH-G, TPH-D, TPH-O, VOCs, PAHs, and total and dissolved lead, as noted in Section 3.0, above (Tables 3 through 5 and Figure 4).

4.6 Waste Disposal

Soil cuttings and decontamination and development water generated during the drilling activities were placed into appropriately labeled DOT-approved 55-gallon steel drums. Eight drums of waste (seven soil and one water) were generated during the drilling event and were logged into field records. The drums from this investigation and 16 drums (ten soil and six water) from ENSR's October 2007 investigation were removed by Cemex U.S.A. of Everett, Washington, following drilling activities and transported under a bill of lading to the Cemex facility in Everett, Washington for disposal.

During groundwater sampling activities, approximately eight gallons of purge water were collected and transported by ENSR under a bill of lading to Chevron's Willbridge Terminal facility located in Portland, Oregon for disposal.

5.0 ANALYTICAL RESULTS

A summary of the soil and groundwater analytical data from this investigation is presented in Tables 1 through 5. The soil and groundwater sample results were compared to the MTCA Method A cleanup levels. The laboratory reports for the investigations are presented in Appendix B.

5.1 Soil Analytical Results

The soil analytical results are presented in Table 1 and Figure 3 and can be summarized as follows:

- Benzene was detected⁴ in soil samples collected from borings MW-6 (6.75-foot depth) and MW-7 (7.50-foot depth) at concentrations of 0.07 and 0.1 mg/kg, respectively, greater than the MTCA Method A cleanup level of 0.03 mg/kg.
- Ethylbenzene was detected in boring MW-7 at a depth of 7.50-feet bgs, but at a concentration less than the MTCA Method A cleanup level 6 mg/kg.
- Toluene was not detected in any of the soil samples analyzed.
- Total xylenes were detected in soil samples collected from borings MW-2 (6.75-foot depth), MW-6 (6.75-foot depth), and MW-7 (7.50-foot depth), but at concentrations less than the MTCA Method A cleanup level of 9 mg/kg.
- TPH-G was detected in soil samples collected from soil borings MW-2, MW-6, and MW-7 at concentrations ranging from 990 milligrams per kilogram (mg/kg) at boring MW-2 (6.75-foot depth) to 1,400 mg at boring MW-6 (6.75-foot depth), greater than the MTCA Method A cleanup level of 30 mg/kg.
- THP-D was detected in soil samples collected from soil borings MW-2 (6.75-foot depth), MW-5 (3.50-foot depth), MW-6 (6.75-foot depth), and MW-7 (7.50-foot depth), but at concentrations less than the MTCA Method A cleanup level of 2,000 mg/kg.
- TPH-O was detected in soil samples collected from soil borings MW-5 (3.50-foot depth) and MW-7 (7.50-foot depth), but at concentrations less than the MTCA Method A cleanup level of 2,000 mg/kg.

All other analytical results were less than the laboratory reporting limits.

5.2 Groundwater Analytical Results

The groundwater analytical results are presented in Tables 3 through 5 and Figure 4 and can be summarized as follows:

- BETX compounds were detected in groundwater samples collected from groundwater monitoring well MW-7, but at concentrations less than the MTCA Method A cleanup levels.
- TPH-G was detected in groundwater samples collected from well MW-7 at a concentration of 2,700 µg/L, greater than MTCA Method A cleanup level of 800 µg/L. In addition, TPH-G was also detected in groundwater samples collected from wells MW-1 and MW-3, but at concentration less than the MTCA Method A cleanup level.
- TPH-D was detected in groundwater samples collected from well MW-7 at a concentration of 3,100 µg/L, greater than MTCA Method A cleanup level of 500 µg/L. In addition, TPH-D was also detected in groundwater samples collected from wells MW-1, MW-3, and MW-4, but at concentration less than the MTCA Method A cleanup level.
- TPH-O was not detected in any of the groundwater samples analyzed.
- Total and dissolved lead were detected in samples collected from wells MW-1, MW-3, MW-4, and MW-7, but at concentrations less than the MTCA Method A cleanup levels.

⁴ Detected means that the analyte concentration exceeded the laboratory method detection limit.

- PAHs were detected in all wells sampled, but at concentrations less than the MTCA Method A cleanup levels.

All other analytical results were below laboratory reporting limits.

6.0 CONCLUSIONS AND RECOMENDATIONS

Please refer to Figure 2 for soil and groundwater sample locations, Table 1 and Figure 3 for soil analytical results, and Tables 3 through 5 and Figure 4 for groundwater analytical results. Based on results from the August 2008 subsurface investigation, the following findings are offered:

- Residual PHCs in soil generally are only present in the southeast portion of the Site. Exceedences of applicable MTCA Method A cleanup levels for benzene and/or TPH-G were identified in soil samples from three soil boring locations (MW-2, MW-6, and MW-9). These soil borings are all in close proximity to one another, in the vicinity of the former bulk plant facilities (i.e., warehouse building and associated docks, loading rack, pump house, and ASTs), all of which are potential PHC contaminant sources. Across the Site from these locations to the north and northwest at four boring locations (MW-1, MW-3, MW-4, and MW-5), PHCs in soil either were not detected or were detected at concentrations less than applicable MTCA Method A cleanup levels.
- PHC impacts in groundwater are contained predominantly onsite. Similar to the soil analytical data, the groundwater analytical data indicate that PHC impacts in groundwater generally are only present in the southeast portion of the Site. Exceedences of applicable MTCA Method A cleanup levels for TPH-G and TPH-D were identified in groundwater samples from monitoring well MW-7, located in the vicinity of the former warehouse. Across the Site from well MW-7 to the north and northwest, PHCs in groundwater samples collected from monitoring wells MW-1, MW-3, and MW-4 either were not detected or concentrations were less than applicable MTCA Method A cleanup levels. Groundwater samples could not be collected from monitoring wells MW-2, MW-5, and MW-6 because groundwater was not encountered in those wells during the August 2008 subsurface investigation.

As a result of the findings presented in this report, ENSR recommends performing three additional quarters of groundwater monitoring at the Site to assess seasonal influences on groundwater levels and groundwater quality. In addition, ENSR suggests preparation of a conceptual site model (CSM), including a local land and beneficial water use assessment. The intention of the CSM would be to closely evaluate the land and potential shallow groundwater use in the Site vicinity, and consequently, to assess in greater detail the exposure pathways and receptor scenarios most applicable to the Site.

In addition, further investigation, excavation, and removal of the abandoned steel drum, which was encountered during this investigation, is recommended. The drum will be investigated by a subcontractor specializing in hazardous materials and emergency response. The contents of the drum will be determined by this contractor and a sampling and analysis plan for the soil and groundwater below and surrounding the drum will be determined based on these findings.

7.0 LIMITATIONS

The interpretations in this report represent our professional opinions and are based, in part, on information supplied by others. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

Tables

TABLE 1
SUMMARY OF SOIL ANALYTICAL DATA
PETROLEUM HYDROCARBONS
 FORMER STANDARD OIL BULK PLANT NO. 1001152
 STATE ROUTE 274, TEKOA, WASHINGTON
 01231-411

Sample ID	Sample Depth (feet)	Date Sampled	BETX ¹ (mg/kg)				Gasoline-range Hydrocarbons ² (mg/kg)	Diesel-range Hydrocarbons ³ (mg/kg)	Heavy Oil-range Hydrocarbons ³ (mg/kg)
			B	E	T	X			
MTCA Method A Cleanup Level ⁴			0.03	6	7	9	30	2,000	2,000
MW-1	6.00	08/05/08	ND(0.008)	ND(0.008)	ND(0.008)	ND(0.02)	ND(1.6)	ND(3.8)	ND(13)
MW-2	6.75	08/05/08	ND(0.03) ⁵	ND(0.3) ⁵	ND(0.03) ⁵	1.5	990	130	ND(13)
MW-3	6.50	08/05/08	ND(0.008)	ND(0.008)	ND(0.008)	ND(0.02)	ND(1.5)	ND(4.0)	ND(13)
MW-4	6.50	08/05/08	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.02)	ND(1.3)	ND(3.8)	ND(13)
MW-5	3.50	08/05/08	ND(0.007)	ND(0.007)	ND(0.007)	ND(0.02)	ND(1.5)	16	200
MW-6	6.75	08/05/08	0.07 ^{J,5}	ND(1.3) ⁵	ND(0.6) ⁵	3.4 ⁵	1,400	500	ND(26)
MW-7	7.50	08/05/08	0.1 ⁵	0.5 ⁵	ND(0.5) ^{5,6}	2.2 ⁵	1,000	430	140

Notes:

¹ B = Benzene, E = Ethylbenzene, T = Toluene, X = Total Xylenes. Analyzed by EPA Method 8021B.

² Total Petroleum Hydrocarbons as gasoline (TPH-G) analyzed by Northwest Method NWTPH-Gx.

³ Total Petroleum Hydrocarbons as diesel (TPH-D) and heavy oil (TPH-O) analyzed by Northwest Method NWTPH-Dx with acid/silica gel cleanup.

⁴ Model Toxics Control Act (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses February 2001 and November 2007 Amendments.

⁵ Due to the nature of the sample matrix, normal reporting limits were not attained.

⁶ Due to the presence of an interference near its retention time, the normal reporting limit was not attained for toluene. The presence or concentration of this compound cannot be determined due to the presence of this interference.

^J Laboratory Estimated Value.

mg/kg = milligrams per kilogram

ND = Not detected. The laboratory reporting limit is listed in parentheses.

Shaded values, where present, represent concentrations which exceed MTCA Method A cleanup levels.

Chemical analyses completed by Lancaster Laboratories of Lancaster, Pennsylvania.

TABLE 2

SUMMARY OF GROUNDWATER ELEVATIONS

FORMER STANDARD OIL BULK PLANT NO. 1001152

STATE ROUTE 274, TEKOA, WASHINGTON

01231-411

Well Number (Elevation in Feet)	Date Measured	Depth to Groundwater¹ (Feet)	Groundwater Elevation² (Feet)
MW-1 (2,494.59)	08/07/08	6.41	2,488.18
MW-2 (2,495.26)	08/07/08	Dry	Dry
MW-3 (2,493.95)	08/07/08	6.34	2,487.61
MW-4 (2,494.10)	08/07/08	6.50	2,487.60
MW-5 (2,495.16)	08/07/08	Dry	Dry
MW-6 (2,496.04)	08/07/08	Dry	Dry
MW-7 (2,495.66)	08/07/08	5.89	2,489.77

Notes:

¹ Depth to groundwater was measured from the top of the well casing.

² Wells surveyed relative to mean sea level by Statewide Land Surveying on August 7, 2008.

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
BETX, PETROLEUM HYDROCARBONS, AND LEAD
FORMER STANDARD OIL BULK PLANT NO. 1001152
STATE ROUTE 274, TEKOA, WASHINGTON
01231-411

Sample ID	Date Sampled	BETX ¹ (µg/L)				Gasoline-range Hydrocarbons ² (µg/L)	Diesel-range Hydrocarbons ³ (µg/L)	Heavy Oil-range Hydrocarbons ³ (µg/L)	Total Lead ⁴ (µg/L)	Dissolved Lead ⁵ (µg/L)
		B	E	T	X					
MTCA Method A Cleanup Level ⁵		5	700	1,000	1,000	800	500	500	15	15
MW-1	08/07/08	ND(0.5)	ND(0.5)	ND(0.5)	ND(1.0)	110 ^J	150 ^J	ND(95)	11.9	1.4
MW-2	08/07/08	--	--	--	--	--	--	--	--	--
MW-3	08/07/08	ND(0.5)	ND(0.5)	ND(0.5)	ND(1.0)	65 ^J	130 ^J	ND(94)	1.8	0.051 ^J
MW-4	08/07/08	ND(0.5)	ND(0.5)	ND(0.5)	ND(1.0)	ND(50)	95 ^J	ND(94)	1.7	0.10 ^J
MW-5	08/07/08	--	--	--	--	--	--	--	--	--
MW-6	08/07/08	--	--	--	--	--	--	--	--	--
MW-7	08/07/08	2 ^J	31	5	67	2,700	3,100	ND(95)	4.6	0.31 ^J

Notes:
¹ B = Benzene, E = Ethylbenzene, T = Toluene, X = Total Xylenes. Analyzed by EPA Method 8260B.
² Total petroleum hydrocarbons as gasoline (TPH-G) analyzed by Northwest Method NWTPH-Gx.
³ Total petroleum hydrocarbons as diesel (TPH-D) and as heavy oil (TPH-O) analyzed by Northwest Method NWTPH-Dx with acid/silica gel cleanup.
⁴ Total and dissolved lead analyzed by EPA Method 6020. Samples for dissolved lead were filtered in the field.
⁵ Model Toxic Control Act (MTCA) Method A Cleanup Level for Groundwater February 2001 and November 2007 Amendments.
^J Laboratory Estimated Value.
-- = Not sampled/not analyzed
µg/L = micrograms per liter
ND = Not detected. The laboratory reporting limit is listed in parentheses.
Shaded values, where present, represent concentrations which exceed MTCA Method A cleanup levels.
Chemical analyses completed by Lancaster Laboratories of Lancaster, Pennsylvania.

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA
VOLATILE ORGANIC COMPOUNDS
FORMER STANDARD OIL BULK PLANT NO. 1001152
STATE ROUTE 274, TEKOA, WASHINGTON
01231-411

Sample ID	Date Sampled	Volatile Organic Compounds ¹ (µg/L)													
		Acetone	2-Butanone	n-Butylbenzene	sec-Butylbenzene	1,2-Dibromoethane (EDB)	1,2-Dichloroethane (EDC)	Methyl tert-butyl ether	Isopropylbenzene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	tetr-Butylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
MTCA Method A Cleanup Level ²		NL	NL	NL	NL	0.01	5	20	NL	NL	160	NL	NL	NL	NL
MW-1	08/07/08	ND(6)	ND(3)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
MW-2	08/07/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	08/07/08	10 ^J	ND(3)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
MW-4	08/07/08	ND(6)	ND(3)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
MW-5	08/07/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	08/07/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	08/07/08	16 ^J	5 ^J	5	10	ND(0.5)	5	ND(0.5)	29	13	16	36	1 ^J	170	71

Notes:

¹ Volatile organic compounds (VOCs) analyzed by EPA Method 8260B.

² Model Toxic Control Act Method A Cleanup Level for Groundwater February 2001 and November 2007 Amendments.

^J Laboratory Estimated Value.

-- = Not sampled/not analyzed

µg/L = micrograms per liter

ND = Not detected. The laboratory reporting limit is listed in parenthe

NL = Not listed.

Chemical analyses completed by Lancaster Laboratories of Lancaster, Pennsylvan

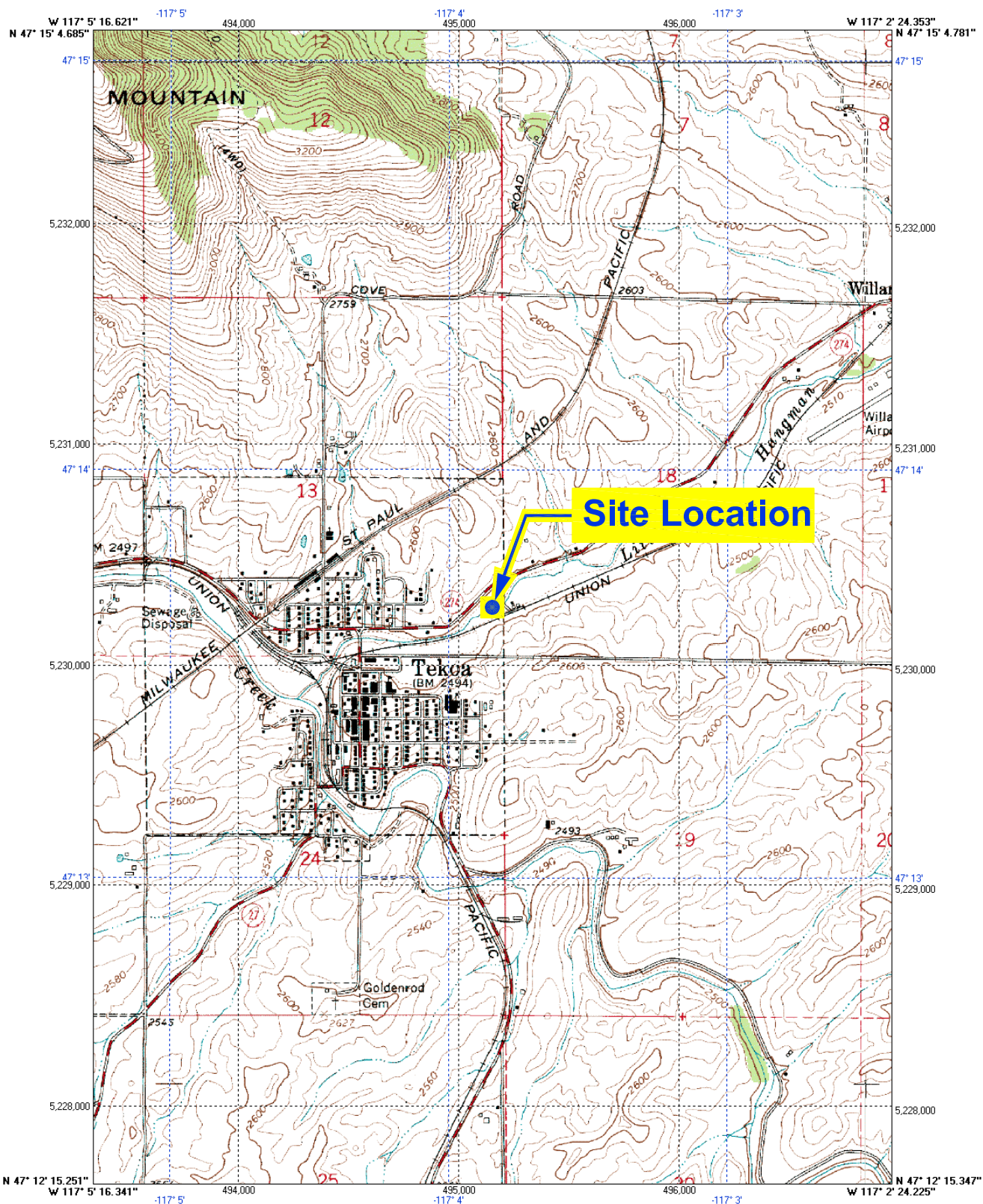
TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA
POLYNUCLEAR AROMATIC COMPOUNDS
FORMER STANDARD OIL BULK PLANT NO. 1001152
STATE ROUTE 274, TEKOA, WASHINGTON
01231-411

Sample ID	Date Sampled	Polynuclear Aromatic Compounds ¹ (µg/L)															
		Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3 - cd) pyrene	Naphthalene	Phenanthrene	Pyrene
MTCA Method A Cleanup Level ²		NL	NL	NL	NL	0.1	NL	NL	160	NL	NL	NL	NL	NL	160	NL	NL
MW-1	08/07/08	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	0.013 ^J	ND(0.0095)	0.52	ND(0.0095)	ND(0.0095)
MW-2	08/07/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	08/07/08	ND(0.0095)	ND(0.0095)	0.010 ^J	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)
MW-4	08/07/08	ND(0.0095)	ND(0.0095)	0.014 ^J	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	ND(0.0095)	0.044 ^J	ND(0.0095)	ND(0.0095)
MW-5	08/07/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	08/07/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	08/07/08	0.14	ND(0.0096)	ND(0.0096)	ND(0.0096)	ND(0.0096)	ND(0.0096)	ND(0.0096)	ND(0.0096)	ND(0.0096)	ND(0.0096)	ND(0.0096)	0.44	ND(0.0096)	13	0.050	ND(0.0096)

Notes:

¹ Polynuclear aromatic compounds (PAHs) analyzed by EPA Method 8270C SIM.
² Model Toxic Control Act Method A Cleanup Level for Groundwater February 2001 and November 2007 Amendments.
^J Laboratory Estimated Value.
-- = Not sampled/not analyzed
µg/L = micrograms per liter
ND = Not detected. The laboratory reporting limit is listed in parentheses.
NL = Not listed.
Chemical analyses completed by Lancaster Laboratories of Lancaster, Pennsylvania.

Figures



BigTopo Map

AECOM

SITE LOCATION MAP

FIGURE NUMBER:

AECOM, INC.
9521 WILLOWS ROAD NE
REDMOND, WASHINGTON 98052
PHONE: (425) 881-7700
FAX: (425) 883-4473
WEB: [HTTP://WWW.ENSRAECOM.COM](http://www.ensr.aecom.com)

Chevron Site No. 352300
Former Standard Oil Bulk Plant No. 1001152
State Route 274, Tekoa, Washington

1

DRAWN BY:

KM

DATE:

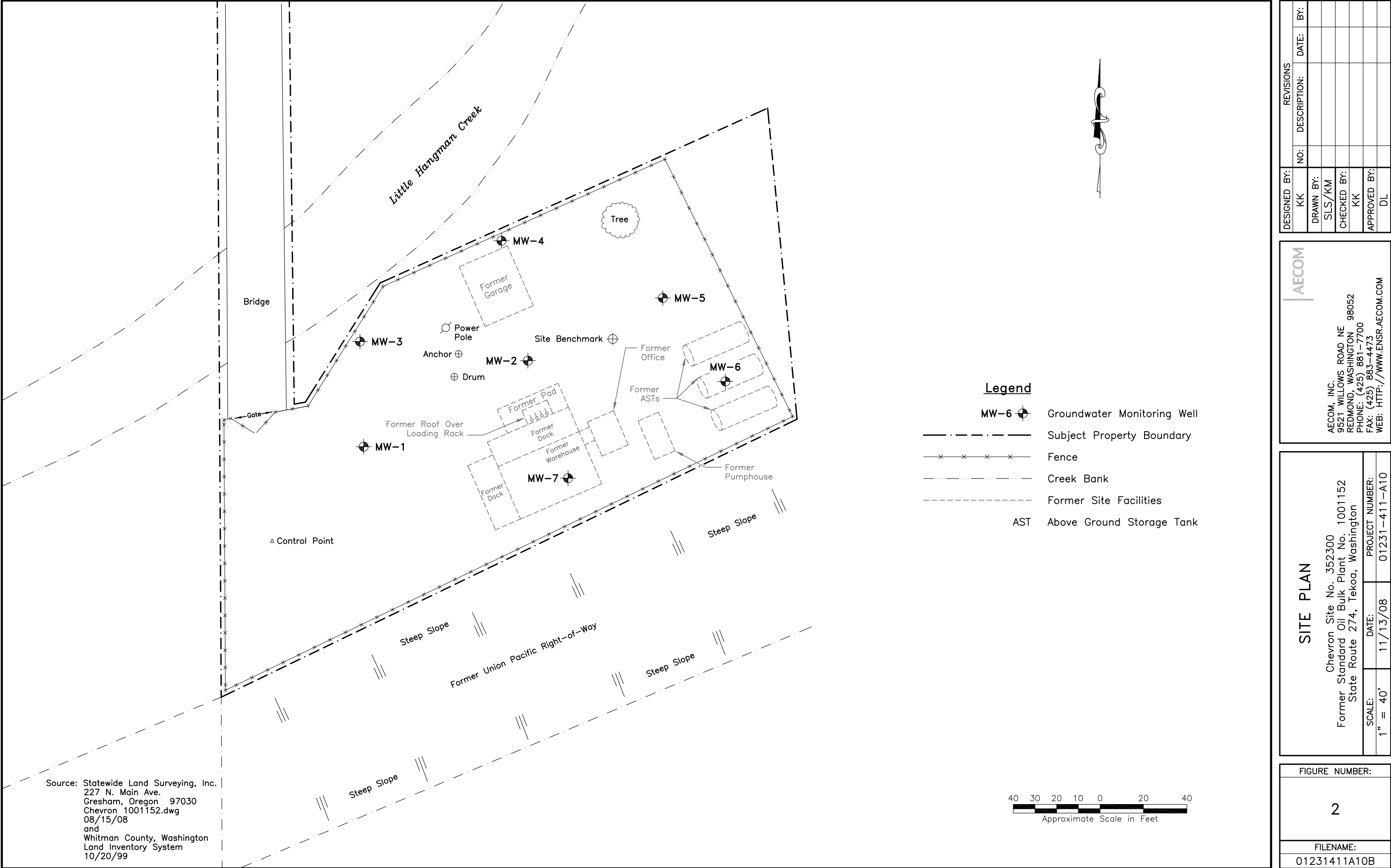
06/16/08

PROJECT NUMBER:

01231-411

CHECKED BY:

DL



MW-3	MTCA A	08/07/08
B	5	ND<0.5
E	700	ND<0.5
T	1,000	ND<0.5
X	1,000	ND<1.0
TPH-G	800	65 J
TPH-D	500	130 J
TPH-O	500	ND<94
TL	15	1.8
DL	15	0.051 J

MW-4	MTCA A	08/07/08
B	5	ND<0.5
E	700	ND<0.5
T	1,000	ND<0.5
X	1,000	ND<1.0
TPH-G	800	ND<50
TPH-D	500	95 J
TPH-O	500	ND<94
TL	15	1.7
DL	15	0.10 J

MW-1	MTCA A	08/07/08
B	5	ND<0.5
E	700	ND<0.5
T	1,000	ND<0.5
X	1,000	ND<1.0
TPH-G	800	110 J
TPH-D	500	150 J
TPH-O	500	ND<95
TL	15	11.9
DL	15	1.4

MW-7	MTCA A	08/07/08
B	5	2 J
E	700	31
T	1,000	5
X	1,000	67
TPH-G	800	2,700
TPH-D	500	3,100
TPH-O	500	ND<95
TL	15	4.6
DL	15	0.31 J

Legend

MW-6 Groundwater Monitoring Well
(Dry) Groundwater Elevation (Feet) 08/07/08

Subject Property Boundary

Fence

Creek Bank

Former Site Facilities

AST Above Ground Storage Tank

B Benzene

E Ethylbenzene

T Toluene

X Total Xylenes

TPH-G Gasoline-range Hydrocarbons

TPH-D Diesel-range Hydrocarbons

TPH-O Heavy Oil-range Hydrocarbons

TL Total Lead

DL Dissolved Lead

ND Analyte not detected at or above the laboratory reporting limit. The reporting limit is shown in parentheses.

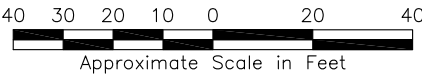
MTCA A Model Toxics Control Act, Method A Cleanup Level

J Laboratory Estimated Value

Approximate Groundwater Flow Direction

All results given in micrograms per liter ($\mu\text{g/L}$)

Note: Shaded values represent concentrations which exceed MTCA Method A Cleanup Level.



DESIGNED BY:	REVISIONS			DATE:	BY:
	NO:	DESCRIPTION:			
KK					
DRAWN BY:					
SLS/KM					
CHECKED BY:					
KK					
APPROVED BY:					
DL					

AECOM

AECOM, INC.
9521 WILLOWS ROAD NE
REDMOND, WASHINGTON 98052
PHONE: (425) 881-7700
FAX: (425) 883-4473
WEB: HTTP://WWW.ENSRAECOM.COM

GROUNDWATER ELEVATIONS AND
SUMMARY OF GROUNDWATER ANALYTICAL
DATA - AUGUST 7, 2008

Chevron Site No. 352300
Former Standard Oil Bulk Plant No. 1001152
State Route 274, Tekoa, Washington

SCALE:	DATE:	PROJECT NUMBER:
1" = 40'	11/13/08	01231-411-A10

FIGURE NUMBER:

4

FILENAME:

01231411A10D

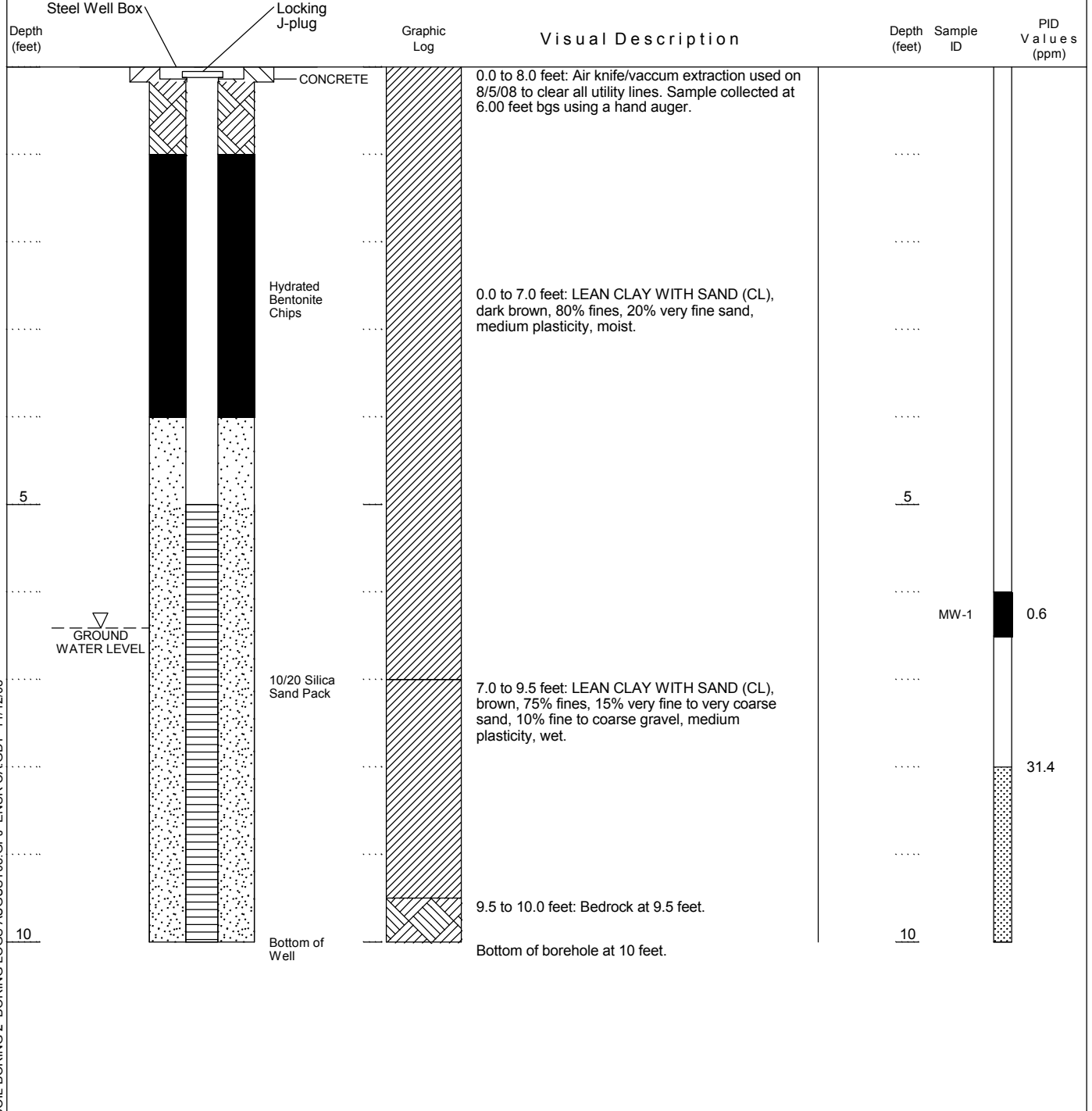
Source: Statewide Land Surveying, Inc.
227 N. Main Ave.
Gresham, Oregon 97030
Chevron 1001152.dwg
08/15/08
and
Whitman County, Washington
Land Inventory System
10/20/99

Appendix A

Well Construction Logs

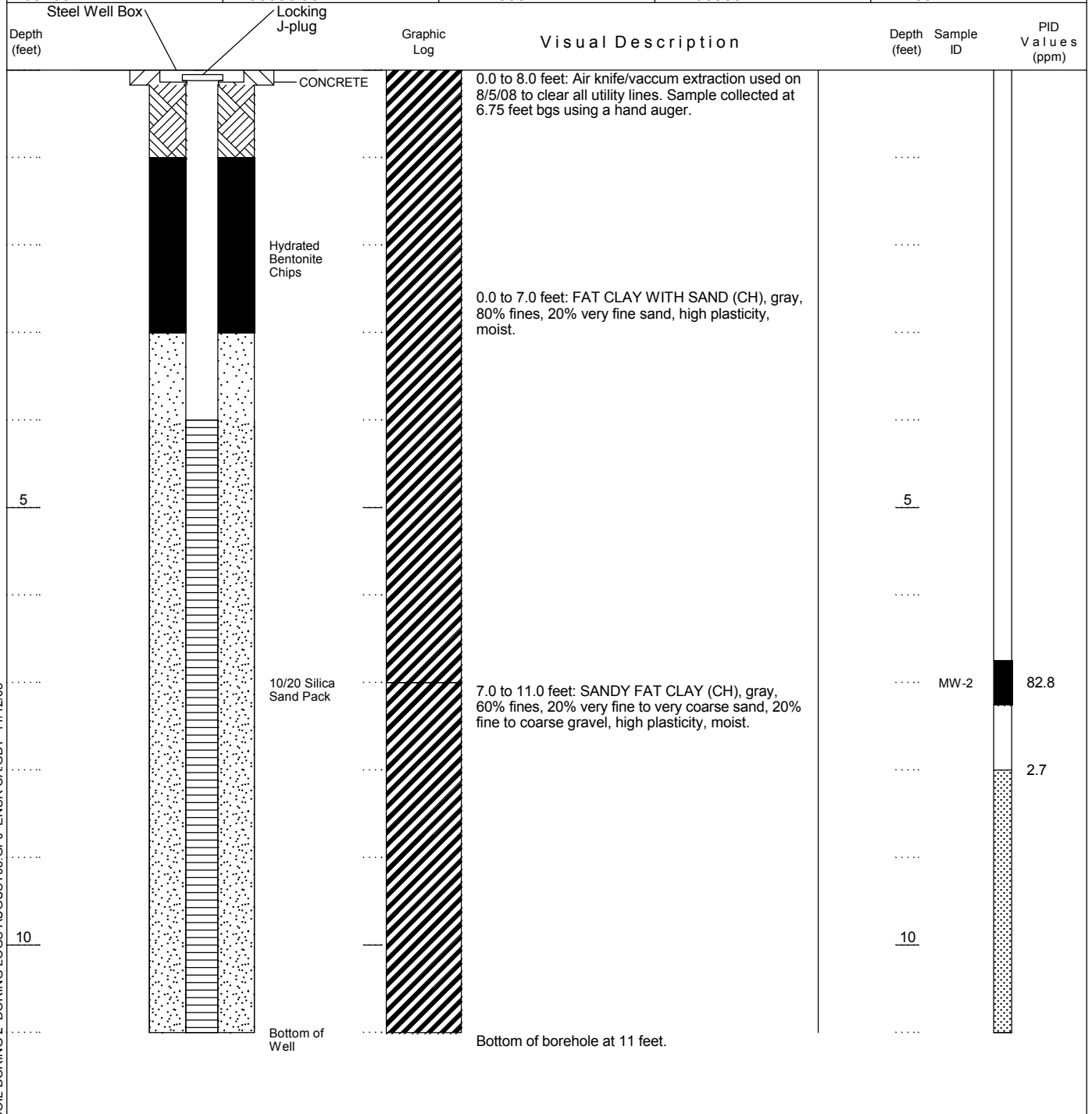
SOIL BORING LOG

BOREHOLE NUMBER MW-1		PROJECT NAME Chevron Site No. 352300		LOCATION State Route 274	
PROJECT NUMBER 01231-411		DRILLING CONTRACTOR / DRILLER Boart Longyear		LOGGED BY A. Lunde	
DRILLING EQUIPMENT / METHOD Sonic Rig		BIT SIZE / BIT TYPE 6 in. Core Barrel		SAMPLING METHOD Continuous Core	START-FINISH DATE 08/05/08 - 08/05/08
CASING MATL. / DIAMETER Sch. 40 PVC/2 in.	SCREEN: TYPE Slotted	MATL. Sch. 40 PVC	TOTAL LENGTH 10 ft.	DIA. 2 in.	SLOT SIZE 0.010 in.
ELEVATION OF: (FT.)	GROUND SURFACE 2495.22	TOP OF WELL CASING 2494.59 (A)	TOP & BOTTOM SCREEN 2488.81	GW SURFACE 2488.81	DATE 08/07/08
NORTHING 709425.52	EASTING 2493811.27	LATITUDE 47.227709	LONGITUDE 117.064168	DATUM NAD83	



SOIL BORING LOG

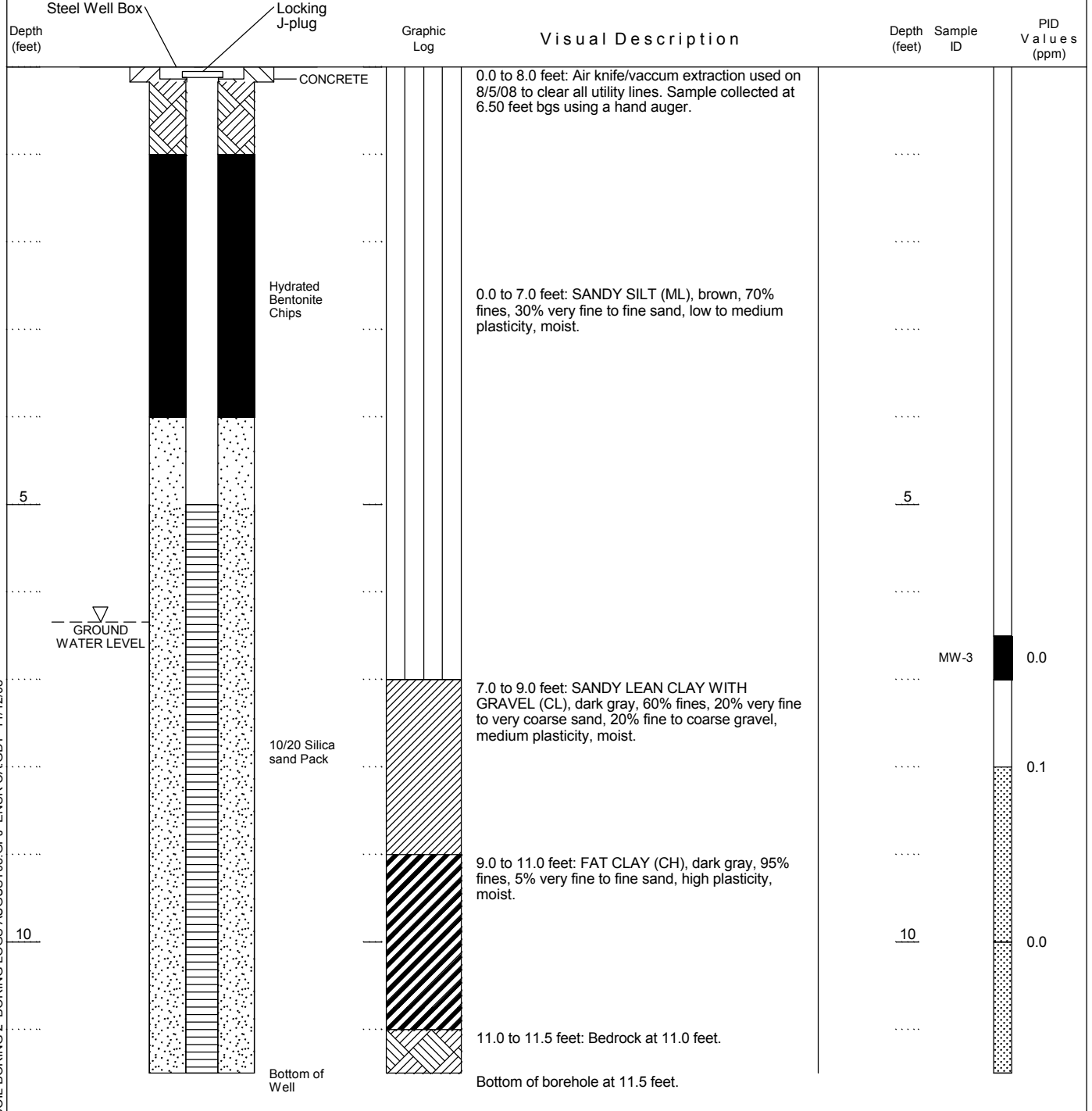
BOREHOLE NUMBER MW-2		PROJECT NAME Chevron Site No. 352300		LOCATION State Route 274	
PROJECT NUMBER 01231-411		DRILLING CONTRACTOR / DRILLER Boart Longyear		LOGGED BY A. Lunde	
DRILLING EQUIPMENT / METHOD Sonic Rig		BIT SIZE / BIT TYPE 6 in. Core Barrel		SAMPLING METHOD Continuous Core	
CASING MATL. / DIAMETER Sch. 40 PVC/2 in.		SCREEN: TYPE Slotted		MATERIAL Sch. 40 PVC	
ELEVATION OF: (FT.)		GROUND SURFACE 2495.89		TOP OF WELL CASING 2495.26 (A)	
NORTHING 709465.17		EASTING 2493886.93		LATITUDE 47.227808	
TOTAL LENGTH 6 ft.		DIA. 2 in.		SLOT SIZE 0.010 in.	
TOP & BOTTOM SCREEN		GW SURFACE DRY		DATE 08/07/08	
LONGITUDE 117.063857		DATUM NAD83		START-FINISH DATE 08/05/08 - 08/05/08	



SOIL BORING 2 BORING LOGS AUGUST08.GPJ ENSR CA GDT 11/12/08

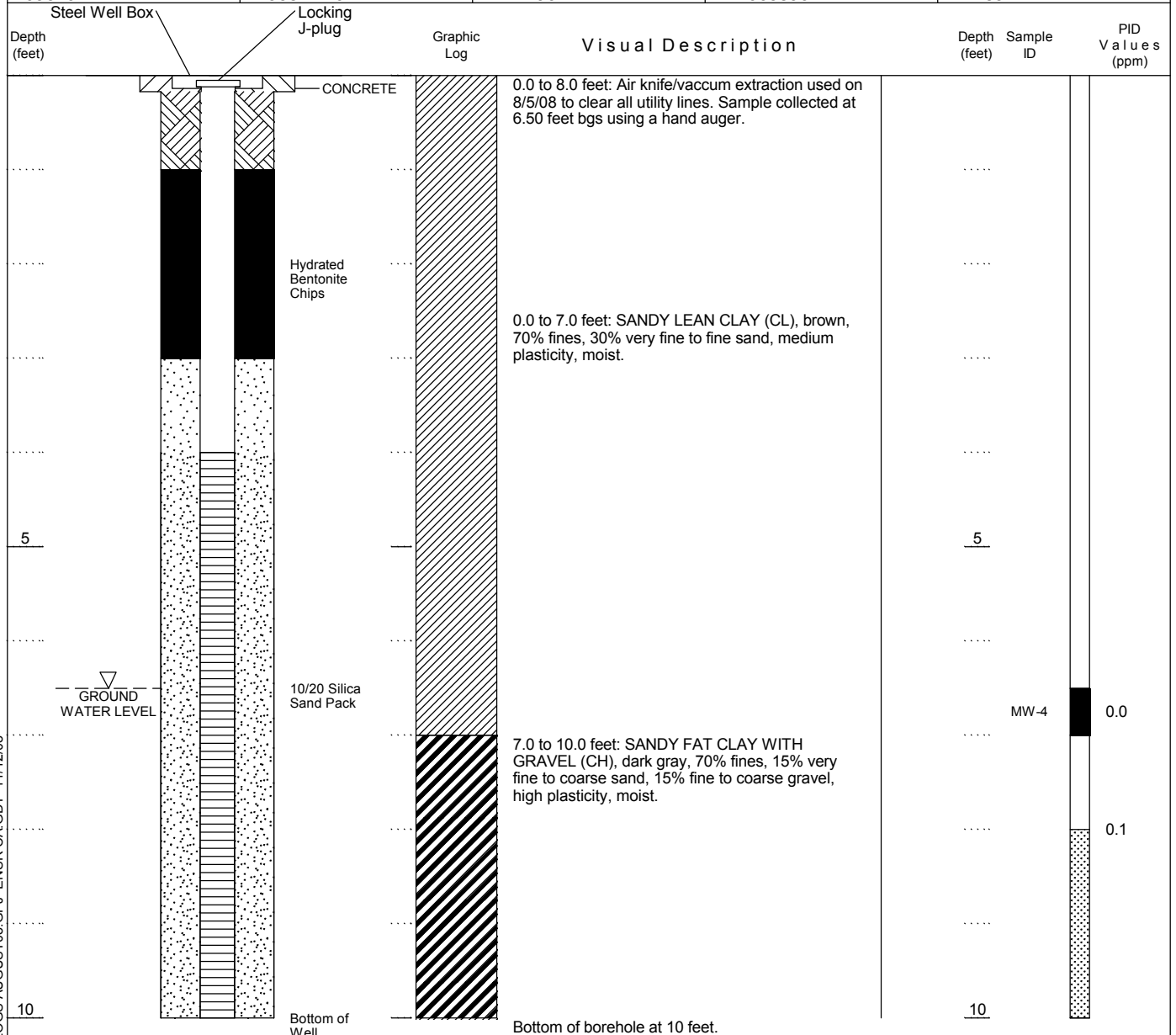
SOIL BORING LOG

BOREHOLE NUMBER MW-3		PROJECT NAME Chevron Site No. 352300		LOCATION State Route 274	
PROJECT NUMBER 01231-411		DRILLING CONTRACTOR / DRILLER Boart Longyear		LOGGED BY A. Lunde	
DRILLING EQUIPMENT / METHOD Sonic Rig		BIT SIZE / BIT TYPE 6 in. Core Barrel		SAMPLING METHOD Continuous Core	START-FINISH DATE 08/05/08 - 08/05/08
CASING MATL. / DIAMETER Sch. 40 PVC/2 in.	SCREEN: TYPE Slotted	MATL. Sch. 40 PVC	TOTAL LENGTH 6.5 ft.	DIA. 2 in.	SLOT SIZE 0.010 in.
ELEVATION OF: (FT.)	GROUND SURFACE 2494.27	TOP OF WELL CASING 2493.95 (A)	TOP & BOTTOM SCREEN 2487.93	GW SURFACE 2487.93	DATE 08/07/08
NORTHING 709473.97	EASTING 2493809.56	LATITUDE 47.227842	LONGITUDE 117.064167	DATUM NAD83	



SOIL BORING LOG

BOREHOLE NUMBER MW-4		PROJECT NAME Chevron Site No. 352300		LOCATION State Route 274	
PROJECT NUMBER 01231-411		DRILLING CONTRACTOR / DRILLER Boart Longyear		LOGGED BY A. Lunde	
DRILLING EQUIPMENT / METHOD Sonic Rig		BIT SIZE / BIT TYPE 6 in. Core Barrel		SAMPLING METHOD Continuous Core	
CASING MATL. / DIAMETER Sch. 40 PVC/2 in.		SCREEN: TYPE Slotted		MATERIAL Sch. 40 PVC	
ELEVATION OF: (FT.)		TOTAL LENGTH 6 ft.		DIA. 2 in.	
GROUND SURFACE 2494.60		TOP OF WELL CASING 2494.10 (A)		TOP & BOTTOM SCREEN 2488.10	
NORTHING 709520.44		EASTING 2493874.76		LATITUDE 47.227961	
DATE 08/07/08		LONGITUDE 117.063896		DATUM NAD83	
START-FINISH DATE 08/05/08 - 08/05/08		ENSR 9521 Willows Road NE Redmond, Washington			



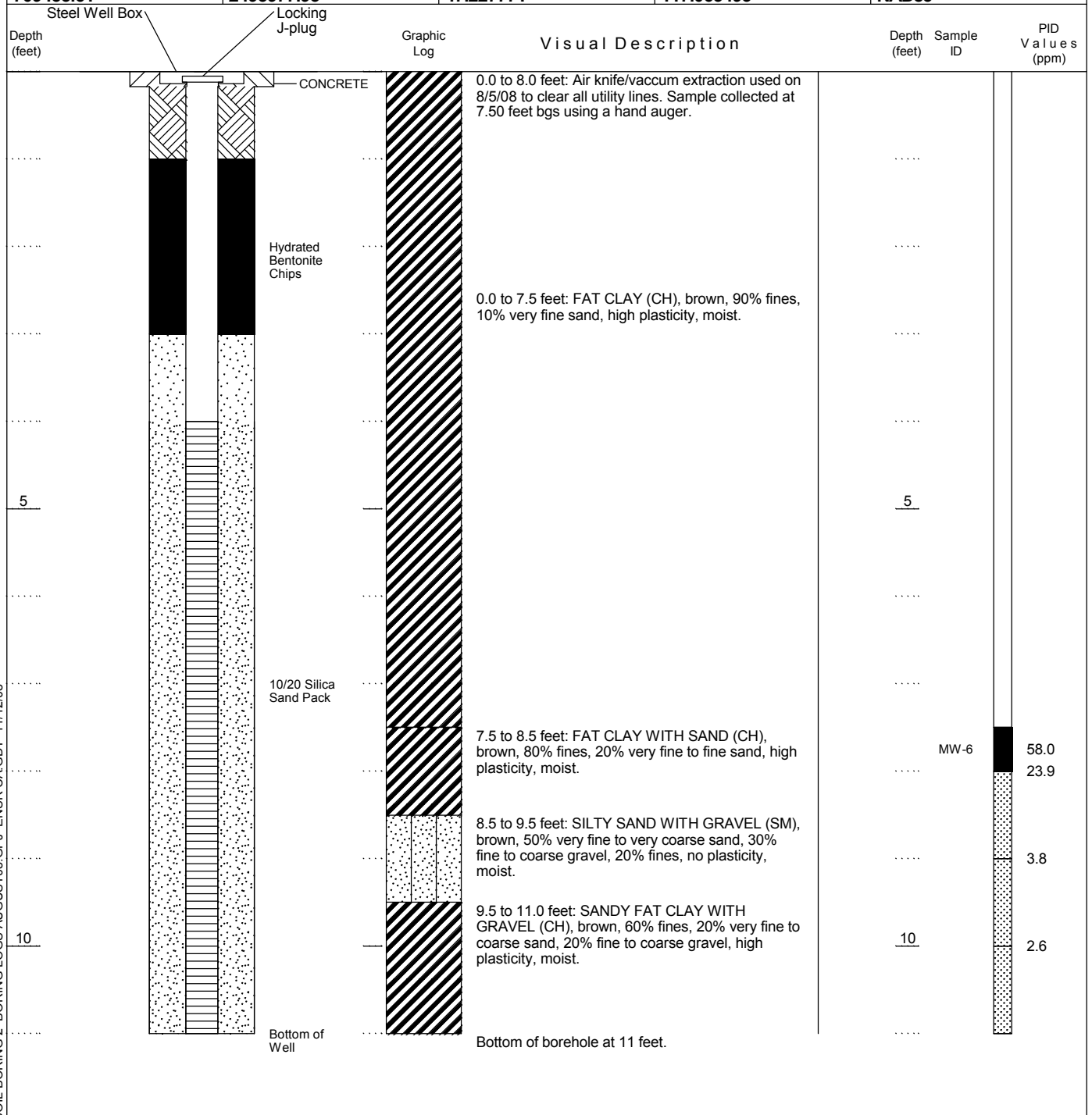
SOIL BORING LOG

BOREHOLE NUMBER		SOIL BORING LOG			
PROJECT NAME		LOCATION		ENSR 9521 Willows Road NE Redmond, Washington	
PROJECT NUMBER		LOGGED BY			
DRILLING CONTRACTOR / DRILLER		BIT SIZE / BIT TYPE			
DRILLING EQUIPMENT / METHOD		SAMPLING METHOD		START-FINISH DATE	
CASING MATL. / DIAMETER		SCREEN:		TOTAL LENGTH	
ELEVATION OF:		GROUND SURFACE		TOP OF WELL CASING	
NORTHING		EASTING		LATITUDE	
LONGITUDE		DATUM		DATE	
MW-5		State Route 274		A. Lunde	
Chevron Site No. 352300		Tekoa, Washington		Continuous Core	
01231-411		6 in. Core Barrel		08/05/08 - 08/05/08	
Boart Longyear		Sch. 40 PVC		5 ft.	
Sonic Rig		Sch. 40 PVC		2 in.	
Sch. 40 PVC/2 in.		TYPE Slotted		SLOT SIZE 0.010 in.	
2495.21		2495.16 (A)		DRY	
709494.08		2493949.09		117.063602	
709494.08		2493949.09		NAD83	
Steel Well Box		Locking J-plug		Visual Description	
Depth (feet)		Graphic Log		Depth (feet)	
0.0		0.0 to 3.5 feet: Air knife/vacuum extraction used on 8/5/08 to clear all utility lines. Sample collected at 3.5 feet bgs using a hand auger.		0.0	
3.5		3.5 to 8.0 feet: SILT WITH SAND (ML), brown, 80% fines, 20% very fine sand, concrete debris, low plasticity, dry.		3.5	
8.0		8.0 to 9.0 feet: Bedrock at 8.0 feet.		8.0	
9.0		Bottom of borehole at 9 feet.		9.0	
Concrete		Hydrated Bentonite Chips		10/20 Silica Sand Pack	
Bottom of Well		Bottom of borehole at 9 feet.		Bottom of borehole at 9 feet.	
5		5		5	
0.2		0.2		0.2	
NA		NA		NA	

SOIL BORING 2 BORING LOGS AUGUST08.GPJ ENSR CA.GDT 11/12/08

SOIL BORING LOG

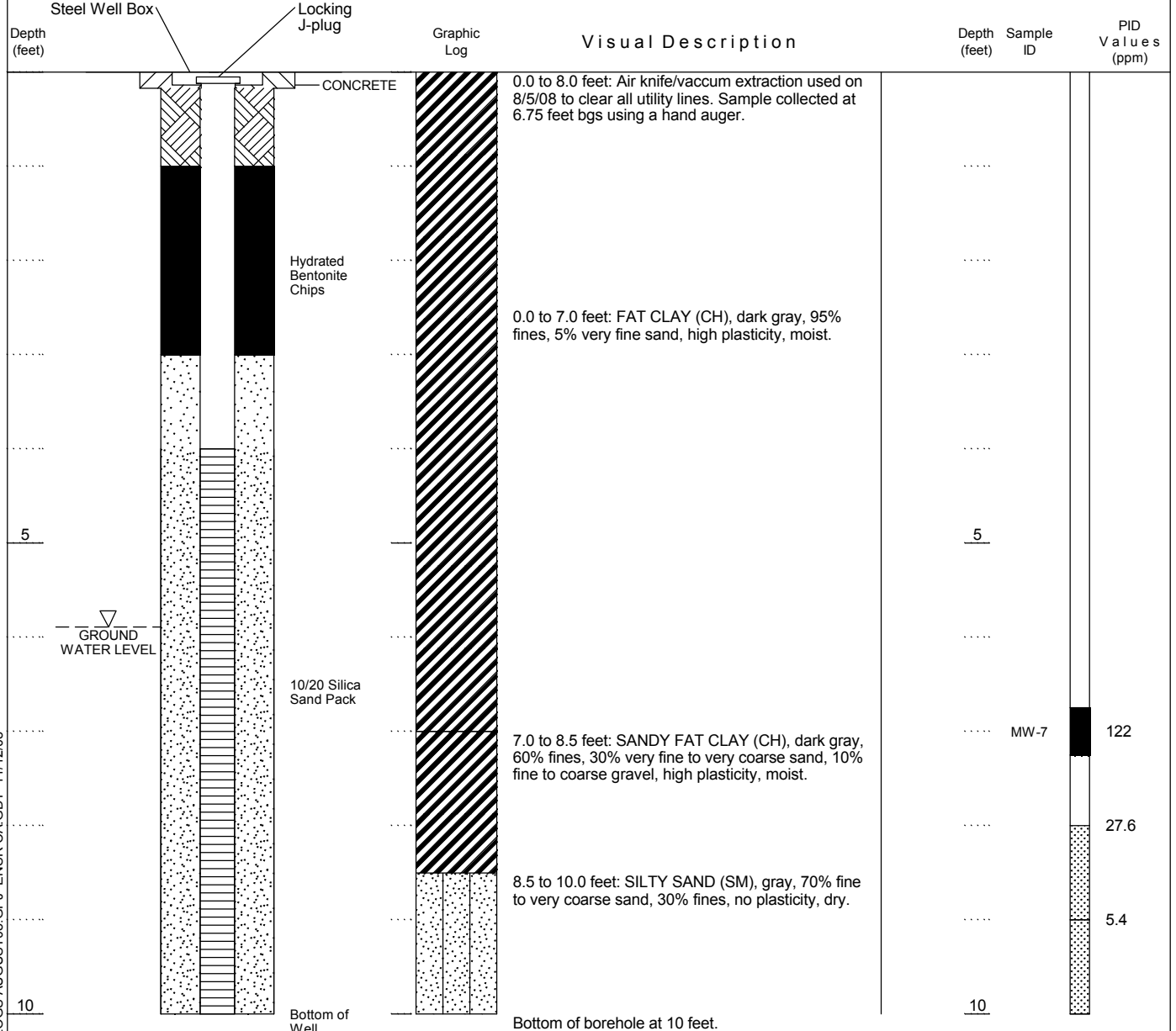
BOREHOLE NUMBER MW-6		PROJECT NAME Chevron Site No. 352300		LOCATION State Route 274	
PROJECT NUMBER 01231-411		DRILLING CONTRACTOR / DRILLER Boart Longyear		LOGGED BY A. Lunde	
DRILLING EQUIPMENT / METHOD Sonic Rig		BIT SIZE / BIT TYPE 6 in. Core Barrel		SAMPLING METHOD Continuous Core	START-FINISH DATE 08/05/08 - 08/06/08
CASING MATL. / DIAMETER Sch. 40 PVC/2 in.	SCREEN: TYPE Slotted	MATL. Sch. 40 PVC	TOTAL LENGTH 8 ft.	DIA. 2 in.	SLOT SIZE 0.010 in.
ELEVATION OF: (FT.)	GROUND SURFACE 2496.52	TOP OF WELL CASING 2496.04 (A)	TOP & BOTTOM SCREEN	GW SURFACE DRY	DATE 08/07/08
NORTHING 709455.61	EASTING 2493977.93	LATITUDE 47.227771	LONGITUDE 117.063493	DATUM NAD83	



SOIL BORING 2 BORING LOGS AUGUST08.GPJ ENSR CA.GDT 11/12/08

SOIL BORING LOG

BOREHOLE NUMBER MW-7		PROJECT NAME Chevron Site No. 352300		LOCATION State Route 274	
PROJECT NUMBER 01231-411		DRILLING CONTRACTOR / DRILLER Boart Longyear		LOGGED BY A. Lunde	
DRILLING EQUIPMENT / METHOD Sonic Rig		BIT SIZE / BIT TYPE 6 in. Core Barrel		SAMPLING METHOD Continuous Core	START-FINISH DATE 08/05/08 - 08/06/08
CASING MATL. / DIAMETER Sch. 40 PVC/2 in.	SCREEN: TYPE Slotted	MATL. Sch. 40 PVC	TOTAL LENGTH 6 ft.	DIA. 2 in.	SLOT SIZE 0.010 in.
ELEVATION OF: (FT.)	GROUND SURFACE 2495.85	TOP OF WELL CASING 2495.66 (A)	TOP & BOTTOM SCREEN 2489.96	GW SURFACE 2489.96	DATE 08/07/08
NORTHING 709411.01	EASTING 2493905.42	LATITUDE 47.227658	LONGITUDE 117.063792	DATUM NAD83	



Appendix B

Laboratory Reports/COCs

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425**SAMPLE GROUP**

The sample group for this submittal is 1104243. Samples arrived at the laboratory on Thursday, August 07, 2008. The PO# for this group is 0015034915 and the release number is HUNTER.

Client Description

MW-1-S-6.00-080805 Grab Soil Sample
MW-2-S-6.75-080805 Grab Soil Sample
MW-3-S-6.50-080805 Grab Soil Sample
MW-4-S-6.50-080805 Grab Soil Sample
MW-5-S-3.50-080805 Grab Soil Sample
MW-7-S-6.75-080805 Grab Soil Sample
MW-6-S-7.50-080805 Grab Soil Sample

Lancaster Labs Number

5435187
5435188
5435189
5435190
5435191
5435192
5435193

ELECTRONIC ENSR-AECOM
COPY TO
ELECTRONIC ENSR-AECOM
COPY TO

Attn: Don Lance

Attn: Ashley Lunde

Questions? Contact your Client Services Representative
Megan A Moeller at (717) 656-2300

Respectfully Submitted,


Sarah Snyder
Specialist

Lancaster Laboratories Sample No. 5435187 SW Group No. 1104243
MW-1-S-6.00-080805 Grab Soil Sample
Facility# 352300
State Route 274 - WA

Collected: 08/05/2008 08:00 by KK

Account Number: 12094

Submitted: 08/07/2008 08:50

Chevron

Reported: 10/24/2008 at 10:32

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

MW1-6

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture "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.	n.a.	20.7	0.50	0.50	%	1
02006	TPH by NWTPH-Gx soils						
02007	TPH by NWTPH-Gx soils	n.a.	N.D.	1.6	7.8	mg/kg	31.07
02214	TPH by NWTPH-Dx(soils) w/SiGel						
02097	Diesel Range Organics	n.a.	N.D.	3.8	8.8	mg/kg	1
02098	Heavy Range Organics	n.a.	N.D.	13.	38.	mg/kg	1
05878	BTEX						
02174	Benzene	71-43-2	N.D.	0.008	0.03	mg/kg	31.07
02177	Toluene	108-88-3	N.D.	0.008	0.03	mg/kg	31.07
02178	Ethylbenzene	100-41-4	N.D.	0.008	0.03	mg/kg	31.07
02182	Total Xylenes	1330-20-7	N.D.	0.02	0.08	mg/kg	31.07

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 Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/08/2008 15:36	Scott W Freisher	1
02006	TPH by NWTPH-Gx soils	ECY 97-602 NWTPH-Gx modified	1	08/11/2008 23:40	Linda C Pape	31.07
02214	TPH by NWTPH-Dx(soils) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	08/13/2008 21:44	Glorines Suarez-Rivera	1
05878	BTEX	SW-846 8021B	1	08/11/2008 23:40	Linda C Pape	31.07
06647	GC Field Preserved MeOH	SW-846 5035	1	08/05/2008 08:00	Client Supplied	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5435187 SW Group No. 1104243

MW-1-S-6.00-080805 Grab Soil Sample

Facility# 352300

State Route 274 - WA

Collected: 08/05/2008 08:00 by KK

Account Number: 12094

Submitted: 08/07/2008 08:50

Chevron

Reported: 10/24/2008 at 10:32

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

MW1-6

07024 DRO Alternate Soil
Extraction

ECY 97-602 NWTPH-Dx
06/97

1 08/10/2008 08:25 Doreen K Robles

1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5435188 SW Group No. 1104243
MW-2-S-6.75-080805 Grab Soil Sample
Facility# 352300
State Route 274 - WA

Collected: 08/05/2008 08:25 by KK

Account Number: 12094

Submitted: 08/07/2008 08:50

Chevron

Reported: 10/24/2008 at 10:32

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

MW2-6

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	23.0	0.50	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.						
02006	TPH by NWTPH-Gx soils						
02007	TPH by NWTPH-Gx soils	n.a.	990.	55.	280.	mg/kg	1063.5
02214	TPH by NWTPH-Dx(soils) w/SiGel						
02097	Diesel Range Organics	n.a.	130.	3.9	9.1	mg/kg	1
02098	Heavy Range Organics	n.a.	N.D.	13.	39.	mg/kg	1
05878	BTEX						
02174	Benzene	71-43-2	N.D.	0.03	0.1	mg/kg	106.35
02177	Toluene	108-88-3	N.D.	0.03	0.1	mg/kg	106.35
02178	Ethylbenzene	100-41-4	N.D.	0.3	0.3	mg/kg	106.35
02182	Total Xylenes	1330-20-7	1.5	0.08	0.3	mg/kg	106.35
	Due to the nature of the sample matrix, normal reporting limits were not attained.						

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 Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/08/2008 15:36	Scott W Freisher	1
02006	TPH by NWTPH-Gx soils	ECY 97-602 NWTPH-Gx modified	1	08/12/2008 00:16	Linda C Pape	1063.5
02214	TPH by NWTPH-Dx(soils) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	08/15/2008 22:01	Glorines Suarez-Rivera	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5435188 SW Group No. 1104243

MW-2-S-6.75-080805 Grab Soil Sample

Facility# 352300

State Route 274 - WA

Collected: 08/05/2008 08:25 by KK

Account Number: 12094

Submitted: 08/07/2008 08:50

Chevron

Reported: 10/24/2008 at 10:32

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

MW2-6

05878	BTEX	SW-846 8021B	1	08/12/2008 13:45	Linda C Pape	106.35
06647	GC Field Preserved MeOH	SW-846 5035	1	08/05/2008 08:25	Client Supplied	n.a.
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	08/12/2008 10:45	Jessica Agosto	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5435189 SW Group No. 1104243
MW-3-S-6.50-080805 Grab Soil Sample
Facility# 352300
State Route 274 - WA

Collected: 08/05/2008 08:45 by KK

Account Number: 12094

Submitted: 08/07/2008 08:50

Chevron

Reported: 10/24/2008 at 10:32

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

MW3-6

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture "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.	n.a.	24.7	0.50	0.50	%	1
02006	TPH by NWTPH-Gx soils						
02007	TPH by NWTPH-Gx soils	n.a.	N.D.	1.5	7.6	mg/kg	28.78
02214	TPH by NWTPH-Dx(soils) w/SiGel						
02097	Diesel Range Organics	n.a.	N.D.	4.0	9.3	mg/kg	1
02098	Heavy Range Organics	n.a.	N.D.	13.	40.	mg/kg	1
05878	BTEX						
02174	Benzene	71-43-2	N.D.	0.008	0.03	mg/kg	28.78
02177	Toluene	108-88-3	N.D.	0.008	0.03	mg/kg	28.78
02178	Ethylbenzene	100-41-4	N.D.	0.008	0.03	mg/kg	28.78
02182	Total Xylenes	1330-20-7	N.D.	0.02	0.08	mg/kg	28.78

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 Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/08/2008 15:36	Scott W Freisher	1
02006	TPH by NWTPH-Gx soils	ECY 97-602 NWTPH-Gx modified	1	08/12/2008 11:04	Linda C Pape	28.78
02214	TPH by NWTPH-Dx(soils) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	08/15/2008 22:26	Glorines Suarez-Rivera	1
05878	BTEX	SW-846 8021B	1	08/12/2008 11:04	Linda C Pape	28.78
06647	GC Field Preserved MeOH	SW-846 5035	1	08/05/2008 08:45	Client Supplied	n.a.

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. 5435189 SW Group No. 1104243

MW-3-S-6.50-080805 Grab Soil Sample

Facility# 352300

State Route 274 - WA

Collected: 08/05/2008 08:45 by KK

Account Number: 12094

Submitted: 08/07/2008 08:50

Chevron

Reported: 10/24/2008 at 10:32

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

MW3-6

07024 DRO Alternate Soil
Extraction

ECY 97-602 NWTPH-Dx
06/97

1 08/12/2008 10:45 Jessica Agosto

1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5435190 SW Group No. 1104243

MW-4-S-6.50-080805 Grab Soil Sample

Facility# 352300

State Route 274 - WA

Collected: 08/05/2008 09:10 by KK

Account Number: 12094

Submitted: 08/07/2008 08:50

Reported: 10/24/2008 at 10:32

Discard: 11/24/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

MW4-6

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture "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.	n.a.	21.4	0.50	0.50	%	1
02006	TPH by NWTPH-Gx soils						
02007	TPH by NWTPH-Gx soils	n.a.	N.D.	1.3	6.6	mg/kg	25.88
02214	TPH by NWTPH-Dx(soils) w/SiGel						
02097	Diesel Range Organics	n.a.	N.D.	3.8	8.9	mg/kg	1
02098	Heavy Range Organics	n.a.	N.D.	13.	38.	mg/kg	1
05878	BTEX						
02174	Benzene	71-43-2	N.D.	0.006	0.03	mg/kg	25.88
02177	Toluene	108-88-3	N.D.	0.006	0.03	mg/kg	25.88
02178	Ethylbenzene	100-41-4	N.D.	0.006	0.03	mg/kg	25.88
02182	Total Xylenes	1330-20-7	N.D.	0.02	0.07	mg/kg	25.88

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 Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/08/2008 15:36	Scott W Freisher	1
02006	TPH by NWTPH-Gx soils	ECY 97-602 NWTPH-Gx modified	1	08/12/2008 11:55	Linda C Pape	25.88
02214	TPH by NWTPH-Dx(soils) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	08/15/2008 22:50	Glorines Suarez-Rivera	1
05878	BTEX	SW-846 8021B	1	08/12/2008 11:55	Linda C Pape	25.88
06647	GC Field Preserved MeOH	SW-846 5035	1	08/05/2008 09:10	Client Supplied	n.a.

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. 5435190 SW Group No. 1104243

MW-4-S-6.50-080805 Grab Soil Sample

Facility# 352300

State Route 274 - WA

Collected: 08/05/2008 09:10 by KK

Account Number: 12094

Submitted: 08/07/2008 08:50

Chevron

Reported: 10/24/2008 at 10:32

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

MW4-6

07024 DRO Alternate Soil
Extraction

ECY 97-602 NWTPH-Dx
06/97

1 08/12/2008 10:45 Jessica Agosto

1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5435191 SW Group No. 1104243

MW-5-S-3.50-080805 Grab Soil Sample

Facility# 352300

State Route 274 - WA

Collected: 08/05/2008 09:45 by KK

Account Number: 12094

Submitted: 08/07/2008 08:50

Chevron

Reported: 10/24/2008 at 10:32

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

MW5-3

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	18.2	0.50	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.						
02006	TPH by NWTPH-Gx soils						
02007	TPH by NWTPH-Gx soils	n.a.	N.D.	1.5	7.4	mg/kg	30.28
02214	TPH by NWTPH-Dx(soils) w/SiGel						
02097	Diesel Range Organics	n.a.	16.	3.7	8.6	mg/kg	1
02098	Heavy Range Organics	n.a.	200.	12.	37.	mg/kg	1
05878	BTEX						
02174	Benzene	71-43-2	N.D.	0.007	0.03	mg/kg	30.28
02177	Toluene	108-88-3	N.D.	0.007	0.03	mg/kg	30.28
02178	Ethylbenzene	100-41-4	N.D.	0.007	0.03	mg/kg	30.28
02182	Total Xylenes	1330-20-7	N.D.	0.02	0.07	mg/kg	30.28

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 Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/08/2008 15:36	Scott W Freisher	1
02006	TPH by NWTPH-Gx soils	ECY 97-602 NWTPH-Gx modified	1	08/12/2008 02:04	Linda C Pape	30.28
02214	TPH by NWTPH-Dx(soils) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	08/16/2008 00:04	Glorines Suarez-Rivera	1
05878	BTEX	SW-846 8021B	1	08/12/2008 02:04	Linda C Pape	30.28
06647	GC Field Preserved MeOH	SW-846 5035	1	08/05/2008 09:45	Client Supplied	n.a.

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. 5435191 SW Group No. 1104243

MW-5-S-3.50-080805 Grab Soil Sample

Facility# 352300

State Route 274 - WA

Collected: 08/05/2008 09:45 by KK

Account Number: 12094

Submitted: 08/07/2008 08:50

Chevron

Reported: 10/24/2008 at 10:32

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

MW5-3

07024 DRO Alternate Soil
Extraction

ECY 97-602 NWTPH-Dx
06/97

1 08/12/2008 10:45 Jessica Agosto

1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5435192 SW Group No. 1104243

MW-7-S-6.75-080805 Grab Soil Sample

Facility# 352300

State Route 274 - WA

Collected: 08/05/2008 10:25 by KK

Account Number: 12094

Submitted: 08/07/2008 08:50

Chevron

Reported: 10/24/2008 at 10:32

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

MW7-6

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	24.9	0.50	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.						
02006	TPH by NWTPH-Gx soils						
02007	TPH by NWTPH-Gx soils	n.a.	1,000.	120.	610.	mg/kg	2297.48
02214	TPH by NWTPH-Dx(soils) w/SiGel						
02097	Diesel Range Organics	n.a.	430.	8.0	19.	mg/kg	2
02098	Heavy Range Organics	n.a.	140.	27.	80.	mg/kg	2
05878	BTEX						
02174	Benzene	71-43-2	0.1	0.03	0.1	mg/kg	114.87
02177	Toluene	108-88-3	N.D.	0.5	0.5	mg/kg	114.87
02178	Ethylbenzene	100-41-4	0.5	0.03	0.1	mg/kg	114.87
02182	Total Xylenes	1330-20-7	2.2	0.09	0.3	mg/kg	114.87

Due to the nature of the sample matrix, normal reporting limits were not attained.

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for toluene. The presence or concentration of this compound cannot be determined due to the presence of this interferent.

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 Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5435192 SW Group No. 1104243

MW-7-S-6.75-080805 Grab Soil Sample

Facility# 352300

State Route 274 - WA

Collected: 08/05/2008 10:25 by KK

Account Number: 12094

Submitted: 08/07/2008 08:50

Chevron

Reported: 10/24/2008 at 10:32

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

MW7-6

00111	Moisture	SM20 2540 G	1	08/08/2008 15:36	Scott W Freisher	1
02006	TPH by NWTPH-Gx soils	ECY 97-602 NWTPH-Gx modified	1	08/12/2008 02:41	Linda C Pape	2297.48
02214	TPH by NWTPH-Dx(soils) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	08/19/2008 01:20	Glorines Suarez-Rivera	2
05878	BTEX	SW-846 8021B	1	08/12/2008 14:58	Linda C Pape	114.87
06647	GC Field Preserved MeOH	SW-846 5035	1	08/05/2008 10:25	Client Supplied	n.a.
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	08/12/2008 10:45	Jessica Agosto	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5435193 SW Group No. 1104243
MW-6-S-7.50-080805 Grab Soil Sample
Facility# 352300
State Route 274 - WA

Collected: 08/05/2008 10:05 by KK

Account Number: 12094

Submitted: 08/07/2008 08:50

Chevron

Reported: 10/24/2008 at 10:32

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

MW6-7

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Units	Dilution Factor
00111	Moisture	n.a.	21.9	0.50	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.						
02006	TPH by NWTPH-Gx soils						
02007	TPH by NWTPH-Gx soils	n.a.	1,400.	110.	550.	mg/kg	2135.91
02214	TPH by NWTPH-Dx(soils) w/SiGel						
02097	Diesel Range Organics	n.a.	500.	7.7	18.	mg/kg	2
02098	Heavy Range Organics	n.a.	N.D.	26.	77.	mg/kg	2
05878	BTEX						
02174	Benzene	71-43-2	0.07 J	0.07	0.3	mg/kg	256.12
02177	Toluene	108-88-3	N.D.	0.6	0.6	mg/kg	256.12
02178	Ethylbenzene	100-41-4	N.D.	1.3	1.3	mg/kg	256.12
02182	Total Xylenes	1330-20-7	3.4	0.2	0.7	mg/kg	256.12
	Due to the nature of the sample matrix, normal reporting limits were not attained.						

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 Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/08/2008 15:36	Scott W Freisher	1
02006	TPH by NWTPH-Gx soils	ECY 97-602 NWTPH-Gx modified	1	08/12/2008 13:09	Linda C Pape	2135.91
02214	TPH by NWTPH-Dx(soils) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	08/19/2008 01:00	Glorines Suarez-Rivera	2

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5435193 SW Group No. 1104243

MW-6-S-7.50-080805 Grab Soil Sample

Facility# 352300

State Route 274 - WA

Collected: 08/05/2008 10:05 by KK

Account Number: 12094

Submitted: 08/07/2008 08:50

Chevron

Reported: 10/24/2008 at 10:32

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

MW6-7

05878	BTEX	SW-846 8021B	1	08/12/2008 03:17	Linda C Pape	256.12
06647	GC Field Preserved MeOH	SW-846 5035	1	08/05/2008 10:05	Client Supplied	n.a.
07024	DRO Alternate Soil	ECY 97-602 NWTPH-Dx	1	08/12/2008 10:45	Jessica Agosto	1
	Extraction	06/97				

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: Chevron

Group Number: 1104243

Reported: 10/24/08 at 10:32 AM

Matrix QC may not be reported if 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.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</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: 08221820002A Moisture	Sample number(s): 5435187-5435193				100		99-101		
Batch number: 082220007A Diesel Range Organics	Sample number(s): 5435187				91		60-120		
Heavy Range Organics	N.D.	3.0	7.0	mg/kg					
	N.D.	10.	30	mg/kg					
Batch number: 082240033A Diesel Range Organics	Sample number(s): 5435188-5435193				79	78	60-120	0	20
Heavy Range Organics	N.D.	3.0	7.0	mg/kg					
	N.D.	10.	30	mg/kg					
Batch number: 08224A34A TPH by NWTPH-Gx soils	Sample number(s): 5435187-5435188, 5435191-5435193				99	108	67-119	8	30
Benzene	N.D.	1.0	5.0	mg/kg	99	92	76-118	7	30
Toluene	N.D.	0.005	0.02	mg/kg	90	83	72-115	8	30
Ethylbenzene	N.D.	0.005	0.02	mg/kg	93	86	77-115	8	30
Total Xylenes	N.D.	0.02	0.05	mg/kg	94	87	78-115	8	30
Batch number: 08224A34B TPH by NWTPH-Gx soils	Sample number(s): 5435188-5435190, 5435192-5435193				99	108	67-119	8	30
Benzene	N.D.	1.0	5.0	mg/kg	99	92	76-118	7	30
Toluene	N.D.	0.005	0.02	mg/kg	90	83	72-115	8	30
Ethylbenzene	N.D.	0.005	0.02	mg/kg	93	86	77-115	8	30
Total Xylenes	N.D.	0.02	0.05	mg/kg	94	87	78-115	8	30

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: 08221820002A Moisture	Sample number(s): 5435187-5435193					BKG: 5435190 21.4	22.4	4	15
Batch number: 082220007A Diesel Range Organics	Sample number(s): 5435187					BKG: P434986 46	J N.D.	200* (1)	20
Heavy Range Organics						720	560	26* (1)	20

Surrogate Quality Control

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(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: 10/24/08 at 10:32 AM

Group Number: 1104243

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: TPH by NWTPH-Dx(soils) w/SiGel
Batch number: 082220007A
Orthoterphenyl

5435187	93
Blank	100
DUP	82
LCS	106

Limits: 50-150

Analysis Name: TPH by NWTPH-Dx(soils) w/SiGel
Batch number: 082240033A
Orthoterphenyl

5435188	96
5435189	93
5435190	81
5435191	99
5435192	97
5435193	90
Blank	94
LCS	97
LCSD	95

Limits: 50-150

Analysis Name: TPH by NWTPH-Gx soils
Batch number: 08224A34A

	Trifluorotoluene-F	Trifluorotoluene-P
5435187	62	64
5435188	2*	
5435191	66	72
5435192	1*	
5435193		7*
Blank	86	92
LCS	82	87
LCSD	90	85

Limits: 61-122 55-124

Analysis Name: TPH by NWTPH-Gx soils
Batch number: 08224A34B

	Trifluorotoluene-F	Trifluorotoluene-P
5435188		16*
5435189	85	51*
5435190	82	82
5435192		11*
5435193	1*	
Blank	91	93
LCS	82	87
LCSD	90	85

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (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: 1104243

Reported: 10/24/08 at 10:32 AM

Surrogate Quality Control

Limits: 61-122

55-124

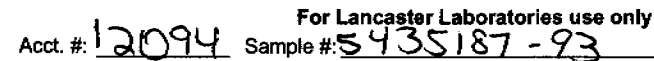
*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(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.

222237



SCR#:

Group# 1104243

Facility #: 352300				Matrix				Analyses Requested												Group# 1104243	
Site Address: State Route 274				Potable NPDES				Preservation Codes												Preservative Codes	
Chevron PM: Brett Hunter Lead Consultant: ENR								H = HCl T = Thiosulfate N = HNO3 B = NaOH S = H2SO4 O = Other													
Consultant/Office: Redmond, WA				Oil Air				Extended Rng. Naphth 8260 8261 8262 8263 8264 8265 8266 8267 8268 8269 8270 8271 8272 8273 8274 8275 8276 8277 8278 8279 8280 8281 8282 8283 8284 8285 8286 8287 8288 8289 8290 8291 8292 8293 8294 8295 8296 8297 8298 8299 8300 8301 8302 8303 8304 8305 8306 8307 8308 8309 8310 8311 8312 8313 8314 8315 8316 8317 8318 8319 8320 8321 8322 8323 8324 8325 8326 8327 8328 8329 8330 8331 8332 8333 8334 8335 8336 8337 8338 8339 8340 8341 8342 8343 8344 8345 8346 8347 8348 8349 8350 8351 8352 8353 8354 8355 8356 8357 8358 8359 8360 8361 8362 8363 8364 8365 8366 8367 8368 8369 8370 8371 8372 8373 8374 8375 8376 8377 8378 8379 8380 8381 8382 8383 8384 8385 8386 8387 8388 8389 8390 8391 8392 8393 8394 8395 8396 8397 8398 8399 8400 8401 8402 8403 8404 8405 8406 8407 8408 8409 8410 8411 8412 8413 8414 8415 8416 8417 8418 8419 8420 8421 8422 8423 8424 8425 8426 8427 8428 8429 8430 8431 8432 8433 8434 8435 8436 8437 8438 8439 8440 8441 8442 8443 8444 8445 8446 8447 8448 8449 8450 8451 8452 8453 8454 8455 8456 8457 8458 8459 8460 8461 8462 8463 8464 8465 8466 8467 8468 8469 8470 8471 8472 8473 8474 8475 8476 8477 8478 8479 8480 8481 8482 8483 8484 8485 8486 8487 8488 8489 8490 8491 8492 8493 8494 8495 8496 8497 8498 8499 8500 8501 8502 8503 8504 8505 8506 8507 8508 8509 8510 8511 8512 8513 8514 8515 8516 8517 8518 8519 8520 8521 8522 8523 8524 8525 8526 8527 8528 8529 8530 8531 8532 8533 8534 8535 8536 8537 8538 8539 8540 8541 8542 8543 8544 8545 8546 8547 8548 8549 8550 8551 8552 8553 8554 8555 8556 8557 8558 8559 8560 8561 8562 8563 8564 8565 8566 8567 8568 8569 8570 8571 8572 8573 8574 8575 8576 8577 8578 8579 8580 8581 8582 8583 8584 8585 8586 8587 8588 8589 8590 8591 8592 8593 8594 8595 8596 8597 8598 8599 8600 8601 8602 8603 8604 8605 8606 8607 8608 8609 8610 8611 8612 8613 8614 8615 8616 8617 8618 8619 8620 8621 8622 8623 8624 8625 8626 8627 8628 8629 8630 8631 8632 8633 8634 8635 8636 8637 8638 8639 8640 8641 8642 8643 8644 8645 8646 8647 8648 8649 8650 8651 8652 8653 8654 8655 8656 8657 8658 8659 8660 8661 8662 8663 8664 8665 8666 8667 8668 8669 8670 8671 8672 8673 8674 8675 8676 8677 8678 8679 8680 8681 8682 8683 8684 8685 8686 8687 8688 8689 8690 8691 8692 8693 8694 8695 8696 8697 8698 8699 8700 8701 8702 8703 8704 8705 8706 8707 8708 8709 8710 8711 8712 8713 8714 8715 8716 8717 8718 8719 8720 8721 8722 8723 8724 8725 8726 8727 8728 8729 8730 8731 8732 8733 8734 8735 8736 8737 8738 8739 8740 8741 8742 8743 8744 8745 8746 8747 8748 8749 8750 8751 8752 8753 8754 8755 8756 8757 8758 8759 8760 8761 8762 8763 8764 8765 8766 8767 8768 8769 8770 8771 8772 8773 8774 8775 8776 8777 8778 8779 8780 8781 8782 8783 8784 8785 8786 8787 8788 8789 8790 8791 8792 8793 8794 8795 8796 8797 8798 8799 8800 8801 8802 8803 8804 8805 8806 8807 8808 8809 8810 8811 8812 8813 8814 8815 8816 8817 8818 8819 8820 8821 8822 8823 8824 8825 8826 8827 8828 8829 8830 8831 8832 8833 8834 8835 8836 8837 8838 8839 8840 8841 8842 8843 8844 8845 8846 8847 8848 8849 8850 8851 8852 8853 8854 8855 8856 8857 8858 8859 8860 8861 8862 8863 8864 8865 8866 8867 8868 8869 8870 8871 8872 8873 8874 8875 8876 8877 8878 8879 8880 8881 8882 8883 8884 8885 8886 8887 8888 8889 8890 8891 8892 8893 8894 8895 8896 8897 8898 8899 8900 8901 8902 8903 8904 8905 8906 8907 8908 8909 8910 8911 8912 8913 8914 8915 8916 8917 8918 8919 8920 8921 8922 8923 8924 8925 8926 8927 8928 8929 8930 8931 8932 8933 8934 8935 8936 8937 8938 8939 8940 8941 8942 8943 8944 8945 8946 8947 8948 8949 8950 8951 8952 8953 8954 8955 8956 8957 8958 8959 8960 8961 8962 8963 8964 8965 8966 8967 8968 8969 8970 8971 8972 8973 8974 8975 8976 8977 8978 8979 8980 8981 8982 8983 8984 8985 8986 8987 8988 8989 8990 8991 8992 8993 8994 8995 8996 8997 8998 8999 9000 9001 9002 9003 9004 9005 9006 9007 9008 9009 9010 9011 9012 9013 9014 9015 9016 9017 9018 9019 9020 9021 9022 9023 9024 9025 902													

Lancaster Laboratories

Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	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.		

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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.

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ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 1104664. Samples arrived at the laboratory on Saturday, August 09, 2008. The PO# for this group is 0015034915 and the release number is HUNTER.

Client Description**Lancaster Labs Number**

MW-1-W-080807 Grab Water Sample	5437429
MW-1-W-080807 Filtered Water Sample	5437430
MW-3-W-080807 Grab Water Sample	5437431
MW-3-W-080807 Filtered Water Sample	5437432
MW-4-W-080807 Grab Water Sample	5437433
MW-4-W-080807 Filtered Water Sample	5437434
MW-7-W-080807 Grab Water Sample	5437435
MW-7-W-080807 Filtered Water Sample	5437436
Trip Blank Water Sample	5437437

ELECTRONIC ENSR-AECOM
COPY TO

Attn: Ashley Lunde

Questions? Contact your Client Services Representative
Megan A Moeller at (717) 656-2300

Respectfully Submitted,


Christine Dulaney
Senior Specialist

Lancaster Laboratories Sample No. 5437429 WW Group No. 1104664
**MW-1-W-080807 Grab Water Sample
Facility# 352300
State Route 274 - Tekoa, WA**

Collected: 08/07/2008 08:55 by AL

Account Number: 12094

Submitted: 08/09/2008 10:10
Reported: 10/24/2008 at 15:22
Discard: 11/24/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SRT01

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
06035	Lead	7439-92-1	11.9		0.050	1.0	ug/l	1
02211	TPH by NWTPH-Dx(water) w/SiGel							
02095	Diesel Range Organics	n.a.	150.	J	76.	240.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.		95.	470.	ug/l	1
08273	TPH by NWTPH-Gx waters							
01645	TPH by NWTPH-Gx waters	n.a.	110.	J	50.	250.	ug/l	1
08357	PAHs in waters by SIM							
08362	Naphthalene	91-20-3	0.52		0.0095	0.048	ug/l	1
08365	Acenaphthylene	208-96-8	N.D.		0.0095	0.048	ug/l	1
08366	Acenaphthene	83-32-9	N.D.		0.0095	0.048	ug/l	1
08368	Fluorene	86-73-7	0.013	J	0.0095	0.048	ug/l	1
08369	Phenanthrene	85-01-8	N.D.		0.0095	0.048	ug/l	1
08370	Anthracene	120-12-7	N.D.		0.0095	0.048	ug/l	1
08372	Fluoranthene	206-44-0	N.D.		0.0095	0.048	ug/l	1
08373	Pyrene	129-00-0	N.D.		0.0095	0.048	ug/l	1
08374	Benzo(a)anthracene	56-55-3	N.D.		0.0095	0.048	ug/l	1
08375	Chrysene	218-01-9	N.D.		0.0095	0.048	ug/l	1
08376	Benzo(b)fluoranthene	205-99-2	N.D.		0.0095	0.048	ug/l	1
08377	Benzo(k)fluoranthene	207-08-9	N.D.		0.0095	0.048	ug/l	1
08378	Benzo(a)pyrene	50-32-8	N.D.		0.0095	0.048	ug/l	1
08379	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.0095	0.048	ug/l	1
08380	Dibenz(a,h)anthracene	53-70-3	N.D.		0.0095	0.048	ug/l	1
08381	Benzo(g,h,i)perylene	191-24-2	N.D.		0.0095	0.048	ug/l	1
05382	EPA SW846/8260 (water)							
05384	Dichlorodifluoromethane	75-71-8	N.D.		2.	5.	ug/l	1
05385	Chloromethane	74-87-3	N.D.		1.	5.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.		1.	5.	ug/l	1
05387	Bromomethane	74-83-9	N.D.		1.	5.	ug/l	1
05388	Chloroethane	75-00-3	N.D.		1.	5.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.		2.	5.	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5437429 WW Group No. 1104664
**MW-1-W-080807 Grab Water Sample
Facility# 352300
State Route 274 - Tekoa, WA**

Collected: 08/07/2008 08:55 by AL

Account Number: 12094

Submitted: 08/09/2008 10:10
Reported: 10/24/2008 at 15:22
Discard: 11/24/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SRT01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	5.	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	5.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5.	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	5.	ug/l	1
05394	2,2-Dichloropropane	594-20-7	N.D.	1.	5.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5.	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	5.	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.	1.	5.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5.	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	5.	ug/l	1
05400	1,1-Dichloropropene	563-58-6	N.D.	1.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	4.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	4.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	5.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	5.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1.	5.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	4.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	5.	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	5.	ug/l	1
05410	1,3-Dichloropropane	142-28-9	N.D.	1.	5.	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	5.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	4.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	5.	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	4.	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	0.5	4.	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.5	4.	ug/l	1
05418	Styrene	100-42-5	N.D.	1.	5.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	5.	ug/l	1
05420	Isopropylbenzene	98-82-8	N.D.	1.	5.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	5.	ug/l	1
05422	Bromobenzene	108-86-1	N.D.	1.	5.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1.	5.	ug/l	1
05424	n-Propylbenzene	103-65-1	N.D.	1.	5.	ug/l	1
05425	2-Chlorotoluene	95-49-8	N.D.	1.	5.	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	N.D.	1.	5.	ug/l	1
05427	4-Chlorotoluene	106-43-4	N.D.	1.	5.	ug/l	1
05428	tert-Butylbenzene	98-06-6	N.D.	1.	5.	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	N.D.	1.	5.	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5437429 WW Group No. 1104664
**MW-1-W-080807 Grab Water Sample
Facility# 352300
State Route 274 - Tekoa, WA**

Collected: 08/07/2008 08:55 by AL

Account Number: 12094

Submitted: 08/09/2008 10:10
Reported: 10/24/2008 at 15:22
Discard: 11/24/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SRT01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05430	sec-Butylbenzene	135-98-8	N.D.	1.	5.	ug/l	1
05431	p-Isopropyltoluene	99-87-6	N.D.	1.	5.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
05434	n-Butylbenzene	104-51-8	N.D.	1.	5.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2.	5.	ug/l	1
05437	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	5.	ug/l	1
05438	Hexachlorobutadiene	87-68-3	N.D.	2.	5.	ug/l	1
05439	Naphthalene	91-20-3	N.D.	1.	5.	ug/l	1
05440	1,2,3-Trichlorobenzene	87-61-6	N.D.	1.	5.	ug/l	1
08202 EPA SW 846/8260 - Water							
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	4.	ug/l	1
06302	Acetone	67-64-1	N.D.	6.	20.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	1.	5.	ug/l	1
06305	2-Butanone	78-93-3	N.D.	3.	10.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	5.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	5.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3.	10.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3.	10.	ug/l	1

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 Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	08/16/2008 12:29	James R Williams II	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	08/16/2008 15:45	Glorines Suarez-Rivera	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	08/20/2008 19:12	Carrie E Youtzy	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5437429 WW Group No. 1104664

MW-1-W-080807 Grab Water Sample

Facility# 352300

State Route 274 - Tekoa, WA

Collected: 08/07/2008 08:55 by AL

Account Number: 12094

Submitted: 08/09/2008 10:10

Chevron

Reported: 10/24/2008 at 15:22

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

SRT01

08357	PAHs in waters by SIM	SW-846 8270C SIM	1	08/13/2008 16:38	William T Parker	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	08/15/2008 12:31	Emily R Styer	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	08/15/2008 12:31	Emily R Styer	1
00813	BNA Water Extraction	SW-846 3510C	1	08/12/2008 09:20	Kerrie A Freeburn	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/20/2008 19:12	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/15/2008 12:31	Emily R Styer	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	08/13/2008 00:05	Roman Kuropatkin	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	08/13/2008 09:25	Denise K Conners	1



Analysis Report

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Lancaster Laboratories Sample No. 5437430 WW Group No. 1104664

MW-1-W-080807 Filtered Water Sample

Facility# 352300

State Route 274 - Tekoa, WA

Collected: 08/07/2008 08:55 by AL

Account Number: 12094

Submitted: 08/09/2008 10:10

Chevron

Reported: 10/24/2008 at 15:22

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
06035	Lead	7439-92-1	1.4	0.050	1.0	ug/l	1

State of Washington Lab Certification No. C259

This sample was field filtered for dissolved metals.

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	08/16/2008 12:34	James R Williams II	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	08/13/2008 09:25	Denise K Connors	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5437431 WW Group No. 1104664
**MW-3-W-080807 Grab Water Sample
Facility# 352300
State Route 274 - Tekoa, WA**

Collected: 08/07/2008 08:50 by AL

Account Number: 12094

Submitted: 08/09/2008 10:10
Reported: 10/24/2008 at 15:22
Discard: 11/24/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SRT03

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
06035	Lead	7439-92-1	1.8		0.050	1.0	ug/l	1
02211	TPH by NWTPH-Dx(water) w/SiGel							
02095	Diesel Range Organics	n.a.	130.	J	75.	240.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.		94.	470.	ug/l	1
08273	TPH by NWTPH-Gx waters							
01645	TPH by NWTPH-Gx waters	n.a.	65.	J	50.	250.	ug/l	1
08357	PAHs in waters by SIM							
08362	Naphthalene	91-20-3	N.D.		0.0095	0.048	ug/l	1
08365	Acenaphthylene	208-96-8	N.D.		0.0095	0.048	ug/l	1
08366	Acenaphthene	83-32-9	N.D.		0.0095	0.048	ug/l	1
08368	Fluorene	86-73-7	N.D.		0.0095	0.048	ug/l	1
08369	Phenanthrene	85-01-8	N.D.		0.0095	0.048	ug/l	1
08370	Anthracene	120-12-7	0.010	J	0.0095	0.048	ug/l	1
08372	Fluoranthene	206-44-0	N.D.		0.0095	0.048	ug/l	1
08373	Pyrene	129-00-0	N.D.		0.0095	0.048	ug/l	1
08374	Benzo(a)anthracene	56-55-3	N.D.		0.0095	0.048	ug/l	1
08375	Chrysene	218-01-9	N.D.		0.0095	0.048	ug/l	1
08376	Benzo(b)fluoranthene	205-99-2	N.D.		0.0095	0.048	ug/l	1
08377	Benzo(k)fluoranthene	207-08-9	N.D.		0.0095	0.048	ug/l	1
08378	Benzo(a)pyrene	50-32-8	N.D.		0.0095	0.048	ug/l	1
08379	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.0095	0.048	ug/l	1
08380	Dibenz(a,h)anthracene	53-70-3	N.D.		0.0095	0.048	ug/l	1
08381	Benzo(g,h,i)perylene	191-24-2	N.D.		0.0095	0.048	ug/l	1
05382	EPA SW846/8260 (water)							
05384	Dichlorodifluoromethane	75-71-8	N.D.		2.	5.	ug/l	1
05385	Chloromethane	74-87-3	N.D.		1.	5.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.		1.	5.	ug/l	1
05387	Bromomethane	74-83-9	N.D.		1.	5.	ug/l	1
05388	Chloroethane	75-00-3	N.D.		1.	5.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.		2.	5.	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5437431 WW Group No. 1104664
**MW-3-W-080807 Grab Water Sample
Facility# 352300
State Route 274 - Tekoa, WA**

Collected: 08/07/2008 08:50 by AL

Account Number: 12094

Submitted: 08/09/2008 10:10
Reported: 10/24/2008 at 15:22
Discard: 11/24/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SRT03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	5.	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	5.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5.	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	5.	ug/l	1
05394	2,2-Dichloropropane	594-20-7	N.D.	1.	5.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5.	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	5.	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.	1.	5.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5.	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	5.	ug/l	1
05400	1,1-Dichloropropene	563-58-6	N.D.	1.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	4.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	4.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	5.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	5.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1.	5.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	4.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	5.	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	5.	ug/l	1
05410	1,3-Dichloropropane	142-28-9	N.D.	1.	5.	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	5.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	4.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	5.	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	4.	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	0.5	4.	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.5	4.	ug/l	1
05418	Styrene	100-42-5	N.D.	1.	5.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	5.	ug/l	1
05420	Isopropylbenzene	98-82-8	N.D.	1.	5.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	5.	ug/l	1
05422	Bromobenzene	108-86-1	N.D.	1.	5.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1.	5.	ug/l	1
05424	n-Propylbenzene	103-65-1	N.D.	1.	5.	ug/l	1
05425	2-Chlorotoluene	95-49-8	N.D.	1.	5.	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	N.D.	1.	5.	ug/l	1
05427	4-Chlorotoluene	106-43-4	N.D.	1.	5.	ug/l	1
05428	tert-Butylbenzene	98-06-6	N.D.	1.	5.	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	N.D.	1.	5.	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5437431 WW Group No. 1104664
MW-3-W-080807 Grab Water Sample
Facility# 352300
State Route 274 - Tekoa, WA

Collected: 08/07/2008 08:50 by AL

Account Number: 12094

Submitted: 08/09/2008 10:10

Chevron

Reported: 10/24/2008 at 15:22

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

SRT03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05430	sec-Butylbenzene	135-98-8	N.D.	1.	5.	ug/l	1
05431	p-Isopropyltoluene	99-87-6	N.D.	1.	5.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
05434	n-Butylbenzene	104-51-8	N.D.	1.	5.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2.	5.	ug/l	1
05437	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	5.	ug/l	1
05438	Hexachlorobutadiene	87-68-3	N.D.	2.	5.	ug/l	1
05439	Naphthalene	91-20-3	N.D.	1.	5.	ug/l	1
05440	1,2,3-Trichlorobenzene	87-61-6	N.D.	1.	5.	ug/l	1
08202 EPA SW 846/8260 - Water							
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	4.	ug/l	1
06302	Acetone	67-64-1	10. J	6.	20.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	1.	5.	ug/l	1
06305	2-Butanone	78-93-3	N.D.	3.	10.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	5.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	5.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3.	10.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3.	10.	ug/l	1

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 Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	08/16/2008 12:38	James R Williams II	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	08/16/2008 16:09	Glorines Suarez-Rivera	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	08/20/2008 19:23	Carrie E Youtzy	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5437431 WW Group No. 1104664

MW-3-W-080807 Grab Water Sample

Facility# 352300

State Route 274 - Tekoa, WA

Collected: 08/07/2008 08:50 by AL

Account Number: 12094

Submitted: 08/09/2008 10:10

Chevron

Reported: 10/24/2008 at 15:22

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

SRT03

08357	PAHs in waters by SIM	SW-846 8270C SIM	1	08/13/2008 17:07	William T Parker	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	08/15/2008 12:55	Emily R Styer	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	08/15/2008 12:55	Emily R Styer	1
00813	BNA Water Extraction	SW-846 3510C	1	08/12/2008 09:20	Kerrie A Freeburn	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/20/2008 19:23	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/15/2008 12:55	Emily R Styer	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	08/13/2008 00:05	Roman Kuropatkin	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	08/13/2008 09:25	Denise K Conners	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. 5437432 WW Group No. 1104664

MW-3-W-080807 Filtered Water Sample

Facility# 352300

State Route 274 - Tekoa, WA

Collected: 08/07/2008 08:50 by AL

Account Number: 12094

Submitted: 08/09/2008 10:10

Chevron

Reported: 10/24/2008 at 15:22

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
06035	Lead	7439-92-1	0.051 J	0.050	1.0	ug/l	1

State of Washington Lab Certification No. C259

This sample was field filtered for dissolved metals.

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	08/16/2008 12:43	James R Williams II	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	08/13/2008 09:25	Denise K Connors	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5437433 WW Group No. 1104664

MW-4-W-080807 Grab Water Sample
Facility# 352300
State Route 274 - Tekoa, WA

Collected: 08/07/2008 10:05 by AL

Account Number: 12094

Submitted: 08/09/2008 10:10
Reported: 10/24/2008 at 15:22
Discard: 11/24/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SRT04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
06035	Lead	7439-92-1	1.7	0.050	1.0	ug/l	1
02211	TPH by NWTPH-Dx(water) w/SiGel						
02095	Diesel Range Organics	n.a.	95. J	75.	240.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	94.	470.	ug/l	1
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	250.	ug/l	1
08357	PAHs in waters by SIM						
08362	Naphthalene	91-20-3	0.044 J	0.0095	0.048	ug/l	1
08365	Acenaphthylene	208-96-8	N.D.	0.0095	0.048	ug/l	1
08366	Acenaphthene	83-32-9	N.D.	0.0095	0.048	ug/l	1
08368	Fluorene	86-73-7	N.D.	0.0095	0.048	ug/l	1
08369	Phenanthrene	85-01-8	N.D.	0.0095	0.048	ug/l	1
08370	Anthracene	120-12-7	0.014 J	0.0095	0.048	ug/l	1
08372	Fluoranthene	206-44-0	N.D.	0.0095	0.048	ug/l	1
08373	Pyrene	129-00-0	N.D.	0.0095	0.048	ug/l	1
08374	Benzo(a)anthracene	56-55-3	N.D.	0.0095	0.048	ug/l	1
08375	Chrysene	218-01-9	N.D.	0.0095	0.048	ug/l	1
08376	Benzo(b)fluoranthene	205-99-2	N.D.	0.0095	0.048	ug/l	1
08377	Benzo(k)fluoranthene	207-08-9	N.D.	0.0095	0.048	ug/l	1
08378	Benzo(a)pyrene	50-32-8	N.D.	0.0095	0.048	ug/l	1
08379	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0095	0.048	ug/l	1
08380	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0095	0.048	ug/l	1
08381	Benzo(g,h,i)perylene	191-24-2	N.D.	0.0095	0.048	ug/l	1
05382	EPA SW846/8260 (water)						
05384	Dichlorodifluoromethane	75-71-8	N.D.	2.	5.	ug/l	1
05385	Chloromethane	74-87-3	N.D.	1.	5.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	5.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	5.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	5.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	5.	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5437433 WW Group No. 1104664
**MW-4-W-080807 Grab Water Sample
Facility# 352300
State Route 274 - Tekoa, WA**

Collected: 08/07/2008 10:05 by AL

Account Number: 12094

Submitted: 08/09/2008 10:10
Reported: 10/24/2008 at 15:22
Discard: 11/24/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SRT04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received	As Received	Units	Dilution Factor
				Method Detection Limit*	Limit of Quantitation		
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	5.	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	5.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5.	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	5.	ug/l	1
05394	2,2-Dichloropropane	594-20-7	N.D.	1.	5.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5.	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	5.	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.	1.	5.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5.	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	5.	ug/l	1
05400	1,1-Dichloropropene	563-58-6	N.D.	1.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	4.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	4.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	5.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	5.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1.	5.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	4.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	5.	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	5.	ug/l	1
05410	1,3-Dichloropropane	142-28-9	N.D.	1.	5.	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	5.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	4.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	5.	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	4.	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	0.5	4.	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.5	4.	ug/l	1
05418	Styrene	100-42-5	N.D.	1.	5.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	5.	ug/l	1
05420	Isopropylbenzene	98-82-8	N.D.	1.	5.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	5.	ug/l	1
05422	Bromobenzene	108-86-1	N.D.	1.	5.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1.	5.	ug/l	1
05424	n-Propylbenzene	103-65-1	N.D.	1.	5.	ug/l	1
05425	2-Chlorotoluene	95-49-8	N.D.	1.	5.	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	N.D.	1.	5.	ug/l	1
05427	4-Chlorotoluene	106-43-4	N.D.	1.	5.	ug/l	1
05428	tert-Butylbenzene	98-06-6	N.D.	1.	5.	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	N.D.	1.	5.	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5437433 WW Group No. 1104664
**MW-4-W-080807 Grab Water Sample
Facility# 352300
State Route 274 - Tekoa, WA**

Collected: 08/07/2008 10:05 by AL

Account Number: 12094

Submitted: 08/09/2008 10:10
Reported: 10/24/2008 at 15:22
Discard: 11/24/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SRT04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05430	sec-Butylbenzene	135-98-8	N.D.	1.	5.	ug/l	1
05431	p-Isopropyltoluene	99-87-6	N.D.	1.	5.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
05434	n-Butylbenzene	104-51-8	N.D.	1.	5.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2.	5.	ug/l	1
05437	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	5.	ug/l	1
05438	Hexachlorobutadiene	87-68-3	N.D.	2.	5.	ug/l	1
05439	Naphthalene	91-20-3	N.D.	1.	5.	ug/l	1
05440	1,2,3-Trichlorobenzene	87-61-6	N.D.	1.	5.	ug/l	1
08202 EPA SW 846/8260 - Water							
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	4	ug/l	1
06302	Acetone	67-64-1	N.D.	6	20	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	1	5	ug/l	1
06305	2-Butanone	78-93-3	N.D.	3	10	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	5	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	5	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3	10	ug/l	1

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 Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	08/16/2008 12:48	James R Williams II	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	08/16/2008 16:34	Glorines Suarez-Rivera	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	08/20/2008 19:34	Carrie E Youtzy	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5437433 WW Group No. 1104664

MW-4-W-080807 Grab Water Sample

Facility# 352300

State Route 274 - Tekoa, WA

Collected: 08/07/2008 10:05 by AL

Account Number: 12094

Submitted: 08/09/2008 10:10

Chevron

Reported: 10/24/2008 at 15:22

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

SRT04

08357	PAHs in waters by SIM	SW-846 8270C SIM	1	08/13/2008 17:37	William T Parker	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	08/15/2008 13:18	Emily R Styer	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	08/15/2008 13:18	Emily R Styer	1
00813	BNA Water Extraction	SW-846 3510C	1	08/12/2008 09:20	Kerrie A Freeburn	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/20/2008 19:34	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/15/2008 13:18	Emily R Styer	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	08/13/2008 00:05	Roman Kuropatkin	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	08/13/2008 09:25	Denise K Conners	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5437434 WW Group No. 1104664

MW-4-W-080807 Filtered Water Sample

Facility# 352300

State Route 274 - Tekoa, WA

Collected: 08/07/2008 10:05 by AL

Account Number: 12094

Submitted: 08/09/2008 10:10

Chevron

Reported: 10/24/2008 at 15:22

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
06035	Lead	7439-92-1	0.10 J	0.050	1.0	ug/l	1

State of Washington Lab Certification No. C259

This sample was field filtered for dissolved metals.

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	08/16/2008 13:01	James R Williams II	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	08/13/2008 09:25	Denise K Connors	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5437435 WW Group No. 1104664
**MW-7-W-080807 Grab Water Sample
Facility# 352300
State Route 274 - Tekoa, WA**

Collected: 08/07/2008 11:15 by AL

Account Number: 12094

Submitted: 08/09/2008 10:10
Reported: 10/24/2008 at 15:22
Discard: 11/24/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SRT07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
06035	Lead	7439-92-1	4.6	0.050	1.0	ug/l	1
02211	TPH by NWTPH-Dx(water) w/SiGel						
02095	Diesel Range Organics	n.a.	3,100.	76.	240.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	95.	470.	ug/l	1
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	2,700.	50.	250.	ug/l	1
08357	PAHs in waters by SIM						
08362	Naphthalene	91-20-3	13.	0.096	0.48	ug/l	10
08365	Acenaphthylene	208-96-8	N.D.	0.0096	0.048	ug/l	1
08366	Acenaphthene	83-32-9	0.14	0.0096	0.048	ug/l	1
08368	Fluorene	86-73-7	0.44	0.0096	0.048	ug/l	1
08369	Phenanthrene	85-01-8	0.050	0.0096	0.048	ug/l	1
08370	Anthracene	120-12-7	N.D.	0.0096	0.048	ug/l	1
08372	Fluoranthene	206-44-0	N.D.	0.0096	0.048	ug/l	1
08373	Pyrene	129-00-0	N.D.	0.0096	0.048	ug/l	1
08374	Benzo(a)anthracene	56-55-3	N.D.	0.0096	0.048	ug/l	1
08375	Chrysene	218-01-9	N.D.	0.0096	0.048	ug/l	1
08376	Benzo(b)fluoranthene	205-99-2	N.D.	0.0096	0.048	ug/l	1
08377	Benzo(k)fluoranthene	207-08-9	N.D.	0.0096	0.048	ug/l	1
08378	Benzo(a)pyrene	50-32-8	N.D.	0.0096	0.048	ug/l	1
08379	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0096	0.048	ug/l	1
08380	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0096	0.048	ug/l	1
08381	Benzo(g,h,i)perylene	191-24-2	N.D.	0.0096	0.048	ug/l	1
05382	EPA SW846/8260 (water)						
05384	Dichlorodifluoromethane	75-71-8	N.D.	2.	5.	ug/l	1
05385	Chloromethane	74-87-3	N.D.	1.	5.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	5.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	5.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	5.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	5.	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5437435 WW Group No. 1104664
**MW-7-W-080807 Grab Water Sample
Facility# 352300
State Route 274 - Tekoa, WA**

Collected: 08/07/2008 11:15 by AL

Account Number: 12094

Submitted: 08/09/2008 10:10
Reported: 10/24/2008 at 15:22
Discard: 11/24/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SRT07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	5.	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	5.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5.	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	5.	ug/l	1
05394	2,2-Dichloropropane	594-20-7	N.D.	1.	5.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5.	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	5.	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.	1.	5.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5.	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	5.	ug/l	1
05400	1,1-Dichloropropene	563-58-6	N.D.	1.	5.	ug/l	1
05401	Benzene	71-43-2	2. J	0.5	4.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	5.	0.5	4.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	5.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	5.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1.	5.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	5.	ug/l	1
05407	Toluene	108-88-3	5.	0.5	4.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	5.	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	5.	ug/l	1
05410	1,3-Dichloropropane	142-28-9	N.D.	1.	5.	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	5.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	4.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	5.	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.	5.	ug/l	1
05415	Ethylbenzene	100-41-4	31.	0.5	4.	ug/l	1
05416	m+p-Xylene	1330-20-7	54.	0.5	4.	ug/l	1
05417	o-Xylene	95-47-6	13.	0.5	4.	ug/l	1
05418	Styrene	100-42-5	N.D.	1.	5.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	5.	ug/l	1
05420	Isopropylbenzene	98-82-8	29.	1.	5.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	5.	ug/l	1
05422	Bromobenzene	108-86-1	N.D.	1.	5.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1.	5.	ug/l	1
05424	n-Propylbenzene	103-65-1	36.	1.	5.	ug/l	1
05425	2-Chlorotoluene	95-49-8	N.D.	1.	5.	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	71.	1.	5.	ug/l	1
05427	4-Chlorotoluene	106-43-4	N.D.	1.	5.	ug/l	1
05428	tert-Butylbenzene	98-06-6	1. J	1.	5.	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	170.	1.	5.	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5437435 WW Group No. 1104664
**MW-7-W-080807 Grab Water Sample
Facility# 352300
State Route 274 - Tekoa, WA**

Collected: 08/07/2008 11:15 by AL

Account Number: 12094

Submitted: 08/09/2008 10:10
Reported: 10/24/2008 at 15:22
Discard: 11/24/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SRT07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05430	sec-Butylbenzene	135-98-8	10.	1.	5.	ug/l	1
05431	p-Isopropyltoluene	99-87-6	13.	1.	5.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
05434	n-Butylbenzene	104-51-8	5.	1.	5.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2.	5.	ug/l	1
05437	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	5.	ug/l	1
05438	Hexachlorobutadiene	87-68-3	N.D.	2.	5.	ug/l	1
05439	Naphthalene	91-20-3	16.	1.	5.	ug/l	1
05440	1,2,3-Trichlorobenzene	87-61-6	N.D.	1.	5.	ug/l	1
08202 EPA SW 846/8260 - Water							
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	4.	ug/l	1
06302	Acetone	67-64-1	16. J	6.	20.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	1.	5.	ug/l	1
06305	2-Butanone	78-93-3	5. J	3.	10.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	5.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	5.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3.	10.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3.	10.	ug/l	1

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 Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	08/16/2008 13:06	James R Williams II	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	08/16/2008 16:59	Glorines Suarez-Rivera	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	08/20/2008 19:44	Carrie E Youtzy	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5437435 WW Group No. 1104664

MW-7-W-080807 Grab Water Sample

Facility# 352300

State Route 274 - Tekoa, WA

Collected: 08/07/2008 11:15 by AL

Account Number: 12094

Submitted: 08/09/2008 10:10

Chevron

Reported: 10/24/2008 at 15:22

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

SRT07

08357	PAHs in waters by SIM	SW-846 8270C SIM	1	08/13/2008 18:06	William T Parker	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	08/13/2008 22:04	William T Parker	10
05382	EPA SW846/8260 (water)	SW-846 8260B	1	08/15/2008 14:28	Emily R Styer	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	08/15/2008 14:28	Emily R Styer	1
00813	BNA Water Extraction	SW-846 3510C	1	08/12/2008 09:20	Kerrie A Freeburn	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/20/2008 19:44	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/15/2008 14:28	Emily R Styer	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	08/13/2008 00:05	Roman Kuropatkin	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	08/13/2008 09:25	Denise K Connors	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. 5437436 WW Group No. 1104664

MW-7-W-080807 Filtered Water Sample

Facility# 352300

State Route 274 - Tekoa, WA

Collected: 08/07/2008 11:15 by AL

Account Number: 12094

Submitted: 08/09/2008 10:10

Chevron

Reported: 10/24/2008 at 15:22

6001 Bollinger Canyon Rd L4310

Discard: 11/24/2008

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
06035	Lead	7439-92-1	0.31 J	0.050	1.0	ug/l	1

State of Washington Lab Certification No. C259

This sample was field filtered for dissolved metals.

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	08/16/2008 13:10	James R Williams II	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	08/13/2008 09:25	Denise K Connors	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. 5437437 WW Group No. 1104664

Trip Blank Water Sample
Facility# 352300
State Route 274 - Tekoa, WA

Collected: 08/07/2008

Account Number: 12094

Submitted: 08/09/2008 10:10
Reported: 10/24/2008 at 15:22
Discard: 11/24/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SRTTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05879	BTEX						
02161	Benzene	71-43-2	N.D.	0.5	2.0	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	2.0	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	2.0	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	5.0	ug/l	1
08274	TPH by NWTPH-Gx waters						
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	250.	ug/l	1
The surrogate was below the lower QC limits (63-135) for the LCSD at 60%. The surrogates were within the QC limits for the LCS and the matrix spike. There should be no impact on the data.							

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 Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05879	BTEX	SW-846 8021B	1	08/20/2008 22:01	Marie D John	1
08274	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	08/20/2008 22:01	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/20/2008 22:01	Marie D John	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: Chevron

Group Number: 1104664

Reported: 10/24/08 at 03:22 PM

Matrix QC may not be reported if 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.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 08224WAJ026	Sample number(s): 5437429, 5437431, 5437433, 5437435								
Naphthalene	N.D.	0.010	0.050	ug/l	81	83	72-109	2	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	92	93	70-110	1	30
Acenaphthene	N.D.	0.010	0.050	ug/l	84	85	74-109	2	30
Fluorene	N.D.	0.010	0.050	ug/l	92	94	75-114	2	30
Phenanthrene	N.D.	0.010	0.050	ug/l	91	93	76-111	2	30
Anthracene	N.D.	0.010	0.050	ug/l	82	83	66-111	1	30
Fluoranthene	N.D.	0.010	0.050	ug/l	94	96	75-116	2	30
Pyrene	N.D.	0.010	0.050	ug/l	87	94	69-118	8	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	91	96	72-114	5	30
Chrysene	N.D.	0.010	0.050	ug/l	90	87	76-116	4	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	102	107	69-123	4	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	93	91	72-122	2	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	93	93	64-115	1	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	104	104	69-124	0	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	106	105	71-125	1	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	102	103	68-125	1	30
Batch number: 082250019A	Sample number(s): 5437429, 5437431, 5437433, 5437435								
Diesel Range Organics	N.D.	80.	250	ug/l	80	79	61-106	2	20
Heavy Range Organics	N.D.	100.	500	ug/l					
Batch number: 082256050002A	Sample number(s): 5437429-5437436								
Lead	N.D.	0.050	1.0	ug/l	106		90-115		
Batch number: 08232A20A	Sample number(s): 5437429, 5437433								
TPH by NWTPH-Gx waters	N.D.	50.	250	ug/l	90	89	75-135	1	30
Batch number: 08232B20A	Sample number(s): 5437431, 5437435								
TPH by NWTPH-Gx waters	N.D.	50.	250	ug/l	105	106	75-135	1	30
Batch number: 08233A53A	Sample number(s): 5437437								
TPH by NWTPH-Gx waters	N.D.	50.	250	ug/l	87	100	75-135	14	30
Benzene	N.D.	0.5	2.0	ug/l	116	110	86-119	5	30
Toluene	N.D.	0.5	2.0	ug/l	112	106	82-119	5	30
Ethylbenzene	N.D.	0.5	2.0	ug/l	111	105	81-119	5	30
Total Xylenes	N.D.	1.5	5.0	ug/l	113	107	82-120	5	30
Batch number: W082281AA	Sample number(s): 5437429, 5437431, 5437433, 5437435								
Methyl Tertiary Butyl Ether	N.D.	0.5	4	ug/l	99		73-119		
Dichlorodifluoromethane	N.D.	2.	5	ug/l	125		45-158		
Chloromethane	N.D.	1.	5	ug/l	118		47-133		
Vinyl Chloride	N.D.	1.	5	ug/l	109		62-128		
Bromomethane	N.D.	1.	5	ug/l	86		50-128		
Chloroethane	N.D.	1.	5	ug/l	94		56-128		
Trichlorofluoromethane	N.D.	2.	5	ug/l	92		60-137		
1,1-Dichloroethene	N.D.	0.8	5	ug/l	99		76-122		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(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: 1104664

Reported: 10/24/08 at 03:22 PM

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</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>
Methylene Chloride	N.D.	2.	5	ug/l	98		85-120		
trans-1,2-Dichloroethene	N.D.	0.8	5	ug/l	99		83-117		
1,1-Dichloroethane	N.D.	1.	5	ug/l	101		83-127		
2,2-Dichloropropane	N.D.	1.	5	ug/l	98		74-130		
cis-1,2-Dichloroethene	N.D.	0.8	5	ug/l	99		84-117		
Chloroform	N.D.	0.8	5	ug/l	99		77-125		
Bromochloromethane	N.D.	1.	5	ug/l	100		83-121		
1,1,1-Trichloroethane	N.D.	0.8	5	ug/l	106		83-127		
Carbon Tetrachloride	N.D.	1.	5	ug/l	97		77-130		
1,1-Dichloropropene	N.D.	1.	5	ug/l	98		84-116		
Benzene	N.D.	0.5	4	ug/l	101		78-119		
1,2-Dichloroethane	N.D.	0.5	4	ug/l	102		69-135		
Trichloroethene	N.D.	1.	5	ug/l	99		87-117		
1,2-Dichloropropane	N.D.	1.	5	ug/l	102		80-117		
Dibromomethane	N.D.	1.	5	ug/l	98		87-117		
Bromodichloromethane	N.D.	1.	5	ug/l	97		83-121		
Toluene	N.D.	0.5	4	ug/l	101		85-115		
1,1,2-Trichloroethane	N.D.	0.8	5	ug/l	99		86-113		
Tetrachloroethene	N.D.	0.8	5	ug/l	101		76-118		
1,3-Dichloropropane	N.D.	1.	5	ug/l	100		84-119		
Dibromochloromethane	N.D.	1.	5	ug/l	99		78-119		
1,2-Dibromoethane	N.D.	0.5	4	ug/l	99		81-114		
Chlorobenzene	N.D.	0.8	5	ug/l	100		85-115		
1,1,1,2-Tetrachloroethane	N.D.	1.	5	ug/l	98		83-114		
Ethylbenzene	N.D.	0.5	4	ug/l	100		82-119		
m+p-Xylene	N.D.	0.5	4	ug/l	100		83-113		
o-Xylene	N.D.	0.5	4	ug/l	100		83-113		
Styrene	N.D.	1.	5	ug/l	99		82-111		
Bromoform	N.D.	1.	5	ug/l	93		69-118		
Isopropylbenzene	N.D.	1.	5	ug/l	100		80-113		
1,1,2,2-Tetrachloroethane	N.D.	1.	5	ug/l	97		72-119		
Bromobenzene	N.D.	1.	5	ug/l	98		82-110		
1,2,3-Trichloropropane	N.D.	1.	5	ug/l	98		78-117		
n-Propylbenzene	N.D.	1.	5	ug/l	100		78-119		
2-Chlorotoluene	N.D.	1.	5	ug/l	99		78-115		
1,3,5-Trimethylbenzene	N.D.	1.	5	ug/l	100		78-116		
4-Chlorotoluene	N.D.	1.	5	ug/l	101		80-112		
tert-Butylbenzene	N.D.	1.	5	ug/l	98		74-114		
1,2,4-Trimethylbenzene	N.D.	1.	5	ug/l	99		78-117		
sec-Butylbenzene	N.D.	1.	5	ug/l	98		72-120		
p-Isopropyltoluene	N.D.	1.	5	ug/l	99		72-118		
1,3-Dichlorobenzene	N.D.	1.	5	ug/l	97		81-114		
1,4-Dichlorobenzene	N.D.	1.	5	ug/l	97		84-116		
n-Butylbenzene	N.D.	1.	5	ug/l	98		75-120		
1,2-Dichlorobenzene	N.D.	1.	5	ug/l	98		81-112		
1,2-Dibromo-3-chloropropane	N.D.	2.	5	ug/l	92		65-121		
1,2,4-Trichlorobenzene	N.D.	1.	5	ug/l	96		65-114		
Hexachlorobutadiene	N.D.	2.	5	ug/l	86		62-119		
Naphthalene	N.D.	1.	5	ug/l	93		61-116		
1,2,3-Trichlorobenzene	N.D.	1.	5	ug/l	92		67-114		
Acetone	N.D.	6.	20	ug/l	103		40-200		
Carbon Disulfide	N.D.	1.	5	ug/l	97		69-119		
2-Butanone	N.D.	3.	10	ug/l	100		63-157		
trans-1,3-Dichloropropene	N.D.	1.	5	ug/l	99		79-114		
cis-1,3-Dichloropropene	N.D.	1.	5	ug/l	99		78-114		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(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: 1104664

Reported: 10/24/08 at 03:22 PM

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</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>
4-Methyl-2-pentanone	N.D.	3.	10	ug/l	97		63-126		
2-Hexanone	N.D.	3.	10	ug/l	94		61-140		

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: 082256050002A	Sample number(s): 5437429-5437436 UNSPK: P437495 BKG: P437495								
Lead	103	105	75-125	2	20	N.D.	N.D.	0 (1)	20
Batch number: 08232A20A	Sample number(s): 5437429,5437433 UNSPK: P436822								
TPH by NWTPH-Gx waters	96		63-154						
Batch number: 08232B20A	Sample number(s): 5437431,5437435 UNSPK: P436823								
TPH by NWTPH-Gx waters	82		63-154						
Batch number: 08233A53A	Sample number(s): 5437437 UNSPK: P437582, P437584								
TPH by NWTPH-Gx waters	68		63-154						
Benzene	122		78-131						
Toluene	117		78-129						
Ethylbenzene	114		75-133						
Total Xylenes	116		84-131						
Batch number: W082281AA	Sample number(s): 5437429,5437431,5437433,5437435 UNSPK: 5437433								
Methyl Tertiary Butyl Ether	103	103	69-127	0	30				
Dichlorodifluoromethane	151	157	52-192	4	30				
Chloromethane	129	127	58-157	1	30				
Vinyl Chloride	123	124	68-147	1	30				
Bromomethane	90	88	54-140	2	30				
Chloroethane	99	94	60-140	5	30				
Trichlorofluoromethane	107	107	68-163	1	30				
1,1-Dichloroethene	111	111	87-145	0	30				
Methylene Chloride	98	99	79-133	1	30				
trans-1,2-Dichloroethene	108	106	82-133	1	30				
1,1-Dichloroethane	108	107	85-135	1	30				
2,2-Dichloropropane	107	108	79-146	1	30				
cis-1,2-Dichloroethene	105	106	83-126	1	30				
Chloroform	105	104	83-139	0	30				
Bromochloromethane	103	103	82-129	0	30				
1,1,1-Trichloroethane	123	123	81-142	1	30				
Carbon Tetrachloride	109	108	82-149	0	30				
1,1-Dichloropropene	109	110	86-134	1	30				
Benzene	106	107	83-128	1	30				
1,2-Dichloroethane	103	104	70-143	2	30				
Trichloroethene	105	106	83-136	1	30				
1,2-Dichloropropane	105	106	83-129	1	30				
Dibromomethane	100	102	82-128	1	30				
Bromodichloromethane	101	101	80-137	0	30				
Toluene	107	106	83-127	1	30				

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(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: 1104664

Reported: 10/24/08 at 03:22 PM

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1,2-Trichloroethane	102	102	77-125	0	30				
Tetrachloroethene	104	103	78-133	2	30				
1,3-Dichloropropane	101	103	82-121	1	30				
Dibromochloromethane	99	100	80-128	0	30				
1,2-Dibromoethane	100	102	78-120	3	30				
Chlorobenzene	104	104	83-120	0	30				
1,1,1,2-Tetrachloroethane	102	101	83-119	1	30				
Ethylbenzene	106	105	82-129	1	30				
m+p-Xylene	106	106	82-130	1	30				
o-Xylene	105	105	82-130	0	30				
Styrene	103	103	69-131	1	30				
Bromoform	95	97	64-119	2	30				
Isopropylbenzene	106	106	81-130	0	30				
1,1,2,2-Tetrachloroethane	98	103	73-121	5	30				
Bromobenzene	102	102	83-121	1	30				
1,2,3-Trichloropropane	100	107	73-125	7	30				
n-Propylbenzene	107	107	74-138	0	30				
2-Chlorotoluene	104	104	78-121	0	30				
1,3,5-Trimethylbenzene	105	106	75-132	1	30				
4-Chlorotoluene	106	104	81-123	2	30				
tert-Butylbenzene	106	104	76-128	2	30				
1,2,4-Trimethylbenzene	104	104	80-125	0	30				
sec-Butylbenzene	107	106	73-137	1	30				
p-Isopropyltoluene	105	105	74-135	0	30				
1,3-Dichlorobenzene	101	100	79-123	1	30				
1,4-Dichlorobenzene	100	100	81-122	1	30				
n-Butylbenzene	105	104	70-141	1	30				
1,2-Dichlorobenzene	100	100	82-117	0	30				
1,2-Dibromo-3-chloropropane	94	103	60-131	9	30				
1,2,4-Trichlorobenzene	98	99	60-121	1	30				
Hexachlorobutadiene	94	94	51-135	1	30				
Naphthalene	94	104	57-125	10	30				
1,2,3-Trichlorobenzene	95	98	65-127	3	30				
Acetone	104	121	54-150	15	30				
Carbon Disulfide	109	109	69-146	0	30				
2-Butanone	102	116	57-137	13	30				
trans-1,3-Dichloropropene	101	102	77-123	1	30				
cis-1,3-Dichloropropene	101	102	72-124	1	30				
4-Methyl-2-pentanone	98	108	61-131	9	30				
2-Hexanone	96	107	60-135	10	30				

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: PAHs in waters by SIM

Batch number: 08224WAJ026

Nitrobenzene-d5

2-Fluorobiphenyl

Terphenyl-d14

*- 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

Group Number: 1104664

Reported: 10/24/08 at 03:22 PM

Surrogate Quality Control

5437429	102	99	87
5437431	97	95	89
5437433	96	97	94
5437435	88	81	92
Blank	90	97	101
LCS	92	99	101
LCSD	91	99	104

Limits:	64-147	68-132	69-140
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Analysis Name: TPH by NWTPH-Dx(water) w/SiGel

Batch number: 082250019A
Orthoterphenyl

5437429	93
5437431	90
5437433	93
5437435	78
Blank	95
LCS	99
LCSD	102

Limits:	50-150
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Analysis Name: TPH by NWTPH-Gx waters

Batch number: 08232A20A
Trifluorotoluene-F

5437429	85
5437433	80
Blank	84
LCS	98
LCSD	93
MS	95

Limits:	63-135
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Analysis Name: TPH by NWTPH-Gx waters

Batch number: 08232B20A
Trifluorotoluene-F

5437431	100
5437435	91
Blank	101
LCS	126
LCSD	128
MS	119

Limits:	63-135
---------	--------

Analysis Name: BTEX

Batch number: 08233A53A
Trifluorotoluene-P Trifluorotoluene-F

5437437	70	71
Blank	69	69
LCS	71	64
LCSD	71	60*

*- 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: 10/24/08 at 03:22 PM

Group Number: 1104664

Surrogate Quality Control

MS	72	64		
Limits:	69-129	63-135		
Analysis Name: EPA SW846/8260 (water)				
Batch number: W082281AA				
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5437429	88	87	91	89
5437431	88	89	91	88
5437433	88	86	90	88
5437435	89	88	93	89
Blank	88	87	90	87
LCS	89	87	91	89
MS	88	88	91	90
MSD	89	88	91	89
Limits:	80-116	77-113	80-113	78-113

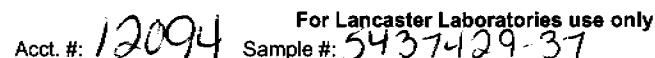
*- Outside of specification

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(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.

222540



SCR#:

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

Lancaster Laboratories

Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	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.		

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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.

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Appendix C

Well Survey Report



STATEWIDE LAND SURVEYING INC.

Coordinate System	UTM Zone	Vertical Datum	Quad Map	Station No.	Address		
Washington South zone 4602 Nad 83	11	Navd88	Tekoa	Chv352300	State Rt 274 Tekoa, Wa		
Well	Northing (Y)	Easting (X)	Latitude	Longitude	El. Surface	El. Rim	El. PVC
SB1	709436.62	2493978.13	47°13'39.790"	117°03'48.584"	24 96.59	N/A	N/A
SB2	709489.96	2493935.34	47°13'40.334"	117°03'49.169"	24 94.78	N/A	N/A
SB4	709433.11	2493939.76	47°13'39.772"	117°03'49.141"	24 96.43	N/A	N/A
SB5	709450.56	2493913.83	47°13'39.955"	117°03'49.506"	24 96.28	N/A	N/A
SB6	709461.86	2493892.9	47°13'40.075"	117°03'49.801"	249 5.74	N/A	N/A
SB8	709398.13	2493875.5	47°13'39.454"	117°03'50.094"	249 5.23	N/A	N/A
SB9	709415.03	2493901.49	47°13'39.610"	117°03'49.707"	24 95.94	N/A	N/A
SB10	709418.93	2493917.53	47°13'39.641"	117°03'49.472"	2 496.36	N/A	N/A
SB11	709483.44	2493830.07	47°13'40.315"	117°03'50.697"	2 494.55	N/A	N/A
SB12	709528.55	2493914.63	47°13'40.723"	117°03'49.445"	2 494.26	N/A	N/A
SB13	709438.52	2493803.2	47°13'39.884"	117°03'51.115"	24 94.74	N/A	N/A
SB14	709384.18	2493755.73	47°13'39.368"	117°03'51.836"	2 494.64	N/A	N/A
MW1	709425.52	2493811.27	47°13'39.752"	117°03'51.006"	24 95.22	2495.27	2494.59
MW2	709465.17	2493886.93	47°13'40.110"	117°03'49.886"	24 95.89	2495.94	2495.26
MW3	709473.97	2493809.56	47°13'40.230"	117°03'51.000"	24 94.27	2494.36	2493.95
MW4	709520.44	2493874.76	47°13'40.661"	117°03'50.027"	24 94.6	2494.73	2494.1
MW5	709494.08	2493949.09	47°13'40.369"	117°03'48.968"	24 95.21	2495.37	2495.16
MW6	709455.61	2493977.93	47°13'39.977"	117°03'48.575"	24 96.52	2496.56	2496.04
MW7	709411.01	2493905.42	47°13'39.568"	117°03'49.652"	24 95.85	2496.08	2495.66

DESCRIPTION	NORTHING (Y)	EASTING (X)	LATITUDE	LONGITUDE	ELEVATION OF SURFACE	ELEVATION OF RIM	ELEVATION OF PVC
MONITORING WELL 1	709425.52'	2493811.27'	47°13'39.752"	117°03'51.006"	N. SIDE GROUND 2495.22'	N. SIDE RIM 2495.27'	N. SIDE 2" PVC 2494.59'
MONITORING WELL 2	709465.17'	2493886.93'	47°13'40.110"	117°03'49.886"	N. SIDE GROUND 2495.89'	N. SIDE RIM 2495.94'	N. SIDE 2" PVC 2495.26'
MONITORING WELL 3	709473.97'	2493809.56'	47°13'40.230"	117°03'51.000"	N. SIDE GROUND 2494.27'	N. SIDE RIM 2494.36'	N. SIDE 2" PVC 2493.95'
MONITORING WELL 4	709520.44'	2493874.76'	47°13'40.661"	117°03'50.027"	N. SIDE GROUND 2494.60'	N. SIDE RIM 2494.73'	N. SIDE 2" PVC 2494.10'
MONITORING WELL 5	709494.08'	2493949.09'	47°13'40.369"	117°03'48.968"	N. SIDE GROUND 2495.21'	N. SIDE RIM 2495.37'	N. SIDE 2" PVC 2495.16'
MONITORING WELL 6	709455.61'	2493977.93'	47°13'39.977"	117°03'48.575"	N. SIDE GROUND 2496.52'	N. SIDE RIM 2496.56'	N. SIDE 2" PVC 2496.04'
MONITORING WELL 7	709411.01'	2493905.42'	47°13'39.568"	117°03'49.652"	N. SIDE GROUND 2495.85'	N. SIDE RIM 2496.08'	N. SIDE 2" PVC 2495.66'
BORING SB-1	709436.62'	2493978.13'	47°13'39.790"	117°03'48.584"	N. SIDE GROUND 2496.59'	N/A	N/A
BORING SB-2	709489.96'	2493935.34'	47°13'40.334"	117°03'49.169"	N. SIDE GROUND 2494.78'	N/A	N/A
BORING SB-4	709433.11'	2493939.78'	47°13'39.772"	117°03'49.141"	N. SIDE GROUND 2496.43'	N/A	N/A
BORING SB-5	709450.56'	2493913.83'	47°13'39.955"	117°03'49.506"	N. SIDE GROUND 2496.28'	N/A	N/A
BORING SB-6	709461.86'	2493892.90'	47°13'40.075"	117°03'49.801"	N. SIDE GROUND 2495.74'	N/A	N/A
BORING SB-8	709398.13'	2493875.50'	47°13'39.454"	117°03'50.094"	N. SIDE GROUND 2495.23'	N/A	N/A
BORING SB-9	709415.03'	2493901.49'	47°13'39.610"	117°03'49.707"	N. SIDE GROUND 2495.94'	N/A	N/A
BORING SB-10	709418.93'	2493917.53'	47°13'39.641"	117°03'49.472"	N. SIDE GROUND 2496.36'	N/A	N/A
BORING SB-11	709483.44'	2493830.07'	47°13'40.315"	117°03'50.697"	N. SIDE GROUND 2494.55'	N/A	N/A
BORING SB-12	709528.55'	2493914.63'	47°13'40.723"	117°03'49.445"	N. SIDE GROUND 2494.26'	N/A	N/A
BORING SB-13	709438.52'	2493803.20'	47°13'39.884"	117°03'51.115"	N. SIDE GROUND 2494.74'	N/A	N/A
BORING SB-14	709384.18'	2493755.73'	47°13'39.368"	117°03'51.836"	N. SIDE GROUND 2494.64'	N/A	N/A

VICINITY MAP

NOT TO SCALE



SITE

FORMER CHEVRON SITE NO. 352300
STATE ROUTE 274
TEKOA, WASHINGTON

LEGEND

- MONITORING WELL AS NOTED
- BORING AS NOTE.
- SITE BENCHMARK AS NOTED.

D. = DECIDUOUS TREE WITH MULTIPLE TRUNKS: 20",14",10",20" AND 12".
M.W. = MONITORING WELL.

SCALE:1"=20'



QUAD MAP

TEKOA

UTM ZONE

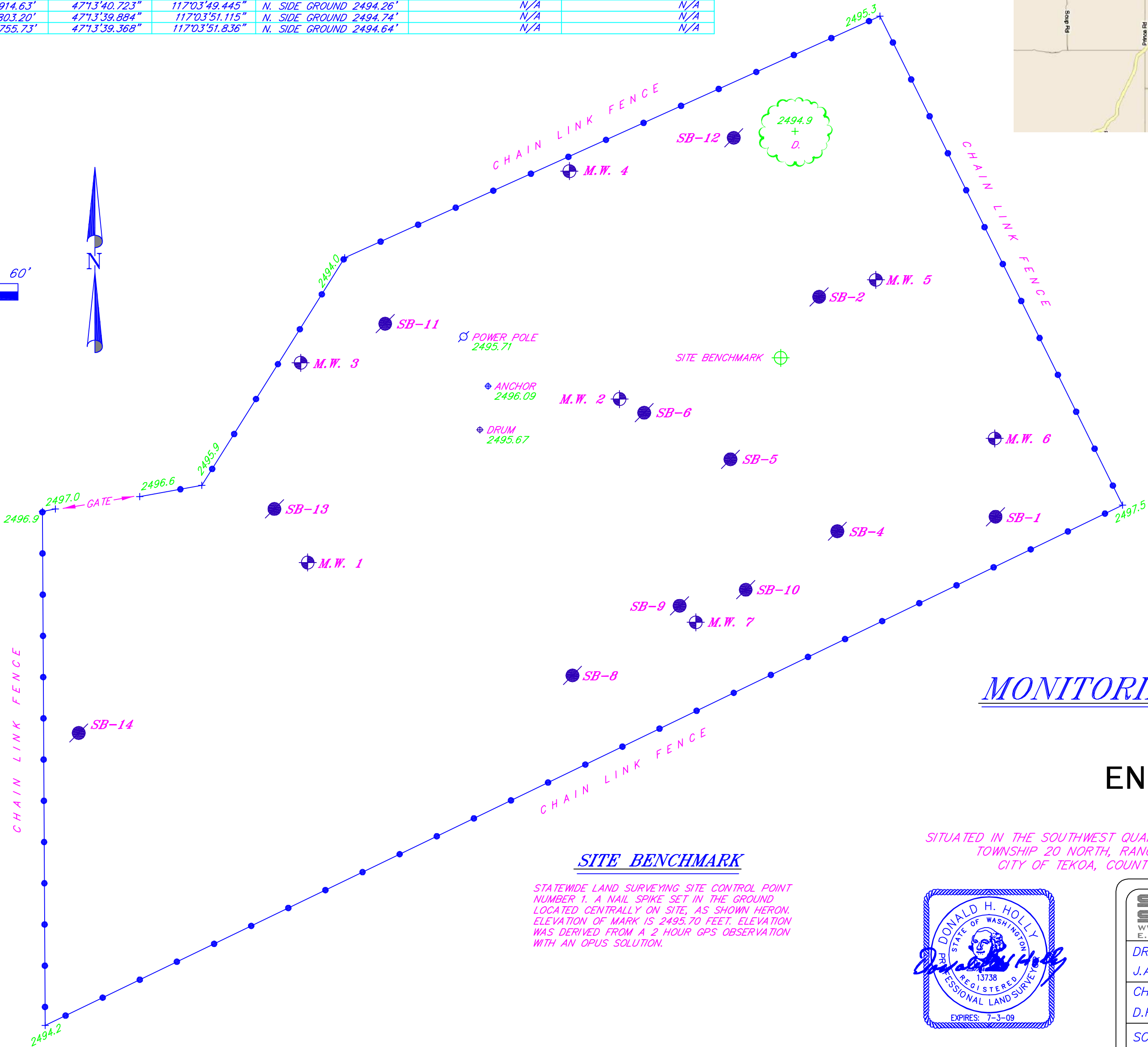
ZONE 11

HORIZONTAL DATUM

WASHINGTON STATE PLANE COORDINATE SYSTEM
NAD 83 SOUTH ZONE 4602, IN U.S. SURVEY FEET.

VERTICAL DATUM

NAVD 88, US SURVEY FEET



MONITORING WELL SURVEY

FOR

ENSR | AECOM

SITUATED IN THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 8,
TOWNSHIP 20 NORTH, RANGE 46 EAST OF THE WILLAMETTE MERIDIAN,
CITY OF TEKOA, COUNTY OF WHITMAN, STATE OF WASHINGTON.



REVISED AUGUST 20, 2008.
SURVEYED AUGUST 7, 2008.

STATEWIDE LAND SURVEYING INC. 		
WWW.STATEWIDESURVEYING.COM E.SURVEY@STATEWIDESURVEYING.COM		
DRAWN J.A.H.	DATE 8/14/08	227 N. MAIN AVE. GRESHAM, OR 97030 (F) 503.665.7988 (O) 503.665.7777
CHECKED D.H.H.	DATE 8/15/08	
SCALE 1" = 20'	SHEET 1 OF 1	PROJECT NO. 2008-63