



March 3, 2009

Ms. Olivia Skance
Chevron Environmental Management Company
6111 Bollinger Canyon Road, Room 3636
San Ramon, California 94583-5186

Re: 2008 Groundwater Monitoring Report
Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North
Seattle, WA

Dear Ms. Skance:

Science Applications International Corporation (SAIC) has prepared this Groundwater Monitoring Report for the above referenced site in Seattle, Washington. This report documents two semi-annual groundwater monitoring events that were performed at this site in 2008, by SAIC, on behalf of Chevron Environmental Management Company.

The spring (April/May) monitoring event was conducted by SAIC between April 28 and May 1, 2008, and the fall (November) monitoring event was performed from November 3 to November 10, 2008.

The dual-phase extraction (DPE) system, which began operating in February 2006, was shutdown on April 2, 2008, and was not operating during either monitoring event.

Field activities and results from these monitoring events are summarized in the following sections and the attached tables and figures.

FIELD ACTIVITIES

APRIL/MAY 2008 FIELD ACTIVITIES

Depth-to-groundwater measurements were collected from 41 on-site monitoring wells on April 28, 2008. Groundwater elevations (relative to site datum) ranged from 67.00 feet (MW-30) to 102.57 feet (MW-10). Wells VP-4, VP-5/MW-5, and VP-7/MW-3 were not monitored due to insufficient water. The westerly groundwater flow direction is consistent with the historical direction of flow. The groundwater elevation had increased an average of 1.47 feet since the last monitoring event performed in December 2007. The horizontal hydraulic gradient at the site varies from 0.01 to 0.15 foot per foot (ft/ft), presumably due to

variations in lithology. Well locations and groundwater elevation contours are presented on Figure 1 and groundwater elevation data are presented in Table 1.

At the time that groundwater elevation data were collected, each well was checked for the presence of separate phase hydrocarbons (SPH). SPH was not detected in any of the wells monitored.

NOVEMBER 2008 FIELD ACTIVITIES

Prior to groundwater sampling, depth-to-groundwater measurements were collected from 41 on-site monitoring wells on November 3, 2008. Groundwater elevations (relative to site datum) ranged from 66.96 feet (MW-30) to 102.62 feet (MW-10). Monitoring wells VP-4, VP-7/MW-3 and VP-9 were not monitored due to insufficient water. The westerly direction of groundwater flow at the time of this event is consistent with the historical direction of flow. The horizontal hydraulic gradient at the site varies from 0.02 to 0.22 ft/ft. The groundwater elevation had increased an average of 1.54 feet since the last monitoring event performed in April/May 2008. Well locations and groundwater elevation contours are presented on Figure 2, and groundwater elevation data are presented in Table 1.

At the time that groundwater elevation data were collected, each well was checked for the presence of separate phase hydrocarbons (SPH). SPH was detected in monitoring well DPE-7 at an approximate thickness of 0.01 ft.

GROUNDWATER ANALYTICAL RESULTS

Groundwater samples were collected from 25 wells during each monitoring event and submitted to Lancaster Laboratories (Lancaster, PA) or Test America (Bothell, WA) for analysis of the following:

- Benzene, toluene, ethylbenzene and total xylenes (BTEX) by U.S. Environmental Protection Agency (EPA) Method 8260B;
- Gasoline-range hydrocarbons by Washington State Department of Ecology (Ecology) Method NWTPH-Gx;
- Diesel and heavy oil-range hydrocarbons by Ecology Method NWTPH-Dx with silica gel cleanup.

Samples were collected via low-flow sampling procedures. A summary of groundwater quality parameter measurements, which are used to evaluate when low-flow purge is complete, is presented in Table 2.

Additional samples were collected from 11 wells (see Table 3) and submitted for analysis of monitored natural attenuation (MNA) parameters including:

- Alkalinity to pH 8.3 and pH 4.5 analyzed by SM20 2320B;
- Iron and manganese by EPA Method 6010B;
- Ferrous iron by SM 3500FeB;

- Sulfate, nitrate-nitrogen, and nitrite-nitrogen analyzed by EPA Method 300.0;
- Sulfide by SM20 4500 S2 D.

Groundwater gauging and sampling field sheets from the April/May and November sampling events are included as Appendices A and B, respectively. The laboratory reports are included as Appendices C and D. Analytical results are presented in Tables 1 and 3.

APRIL / MAY 2008 GROUNDWATER ANALYTICAL RESULTS

Benzene was detected above the laboratory detection limit (LDL) in 20 of the 25 wells sampled, in concentrations ranging up to 2,400 µg/L (MW-33). A benzene concentration contour map is presented in Figure 3.

Toluene was detected in 10 of the 25 samples collected, in concentrations up to 86 µg/L (MW-33). Ethylbenzene was detected in 13 of the 25 samples collected, ranging in concentrations up to 75 µg/L (MW-33). Total xylenes were reported in 12 of the 25 samples, in concentrations up to 76 µg/L (MW-33).

Gasoline-range hydrocarbons were detected at concentrations exceeding the LDL in 18 of the 25 wells sampled, ranging in concentrations up to 4,500 µg/L (DPE-8/MW-22). Gasoline-range hydrocarbon concentration contours are presented in Figure 4.

Diesel-range hydrocarbons were detected in 15 of 25 wells sampled, ranging in concentrations up to 38,000 µg/L (DPE-8/MW-22). Diesel-range hydrocarbon concentration contours are presented in Figure 5.

Filtered samples for diesel-range hydrocarbons were collected from wells DPE-5, DPE-6, DPE-7, and DPE-8/MW-22. Groundwater in these extraction wells has historically been highly turbid due to biological and/or iron oxide slime formation resulting from vacuum induced air flow by the DPE system. The filtered samples were collected to evaluate the potential for these solids to artificially elevate diesel-range hydrocarbon concentrations in these wells, due to adsorption or other mechanisms. Filtered samples from DPE-5, DPE-6 and DPE-8 contained diesel in concentrations significantly lower than the detections found in the non-filtered samples. The filtered sample obtained from DPE-7 had diesel concentrations generally similar to the concentration result from the associated non-filtered sample. Please see Table 1 to compare these results.

Heavy oil-range hydrocarbons were detected in two of the 25 wells sampled, at concentrations of up to 8,900 µg/L (DPE-8). See Table 1 for further summary.

Monitored natural attenuation (MNA) parameters including alkalinity, total iron, ferrous iron, manganese, sulfate, sulfide, nitrate and nitrite were monitored during this sampling event to evaluate the natural attenuation capacity of the local aquifer. These parameters were analyzed during this event to determine the baseline levels in groundwater beneath the site. The change in these parameters can be correlated with natural degradation of hydrocarbon constituents. Additional MNA sample collection over time will show trends in contaminant

natural degradation. Table 3 summarizes the first MNA parameters analyzed since system shutdown.

NOVEMBER 2008 GROUNDWATER ANALYTICAL RESULTS

Benzene was detected in above the LDL in 19 of the 25 wells sampled, ranging in concentrations up to 2,700 µg/L (MW-33). A benzene concentration contour map is presented in Figure 6.

Toluene was detected in eight of the 25 monitoring wells sampled ranging in concentrations up to 97 µg/L (MW-33). Ethylbenzene was detected in eight monitoring wells, with concentrations ranging up to 110 µg/L (MW-26). Total xylenes were detected in eight of the 25 samples collected, ranging up to 140 µg/L (DPE-8/MW-22).

Gasoline-range hydrocarbons were detected in 19 of the 25 wells sampled, ranging in concentrations up to 8,400 µg/L (MW-14). Gasoline-range hydrocarbon concentration contours for the fourth quarter 2008 event are presented in Figure 7.

Diesel-range hydrocarbons were detected in 20 of the 25 wells sampled, with concentrations ranging up to 18,000 µg/L (DPE-8/MW-22). Concentration contours of diesel-range hydrocarbons for the fourth quarter 2008 event are presented in Figure 8.

Heavy oil-range hydrocarbons were detected above the LDL in two monitoring wells (MW-4 and MW-9) at concentrations of 67 µg/L and 97 µg/L, respectively. See Table 1 for a summary.

MNA parameters including alkalinity, total iron, ferrous iron, manganese, sulfate, sulfide, nitrate and nitrite were monitored during this sampling event to evaluate the natural attenuation capacity of the local aquifer, as described in the April/May 2008 section. Please refer to Table 3 for these results.

Historical chemical concentration data for all wells are provided in Table 1 and graphs of these data are attached as Appendix F.

QUALITY ASSURANCE SAMPLES

APRIL / MAY 2008 QUALITY ASSURANCE SAMPLES

Duplicate groundwater samples were collected from wells MW-26, DPE-1/VP-6, and DPE-4. All analyses were duplicated between the original and duplicate sample pairs. The groundwater sample from monitoring well MW-26 had significant deviations (greater than 10 percent difference) between the original and duplicate sample results for diesel-range hydrocarbons, benzene and ethylbenzene, while gasoline, oil-range hydrocarbons and BTEX results correlated very well between the original and duplicate samples for DPE-1/VP-6 and DPE-4. However, the diesel-range hydrocarbon results for DPE-1/VP-6 and DPE-4 samples were greater than 10 percent. The lack of good correlation between the original and

duplicate samples may be attributed to the turbidity or a less homogeneous sample collection. Please refer to Table 1 for these results.

Three field blank samples were collected during the April/May 2008 groundwater monitoring event. The field blank samples were collected at monitoring wells MW-14 (FB-1-04282008), DPE-8/MW-22 (FB-2-042908) and MW-32 (FB-3-042908). Field blank sample collection consisted of pouring new de-ionized water into 40 milliliter volatile organic analysis samples jars preserved with hydrochloric acid, while original well sample collection was being conducted. These samples are used to determine whether ambient environmental conditions or sample container contamination exists that could impact the results of laboratory analyses. Field blank samples were analyzed for gasoline-range hydrocarbons and BTEX. No analytes were detected in these three field blank samples collected during this sampling event (Table 1).

Trip blank samples, for each field day of sample collection, were prepared and provided by Lancaster Laboratories in Lancaster, Pennsylvania. Trip blank samples were analyzed for gasoline-range hydrocarbons and BTEX compounds. Gasoline-range hydrocarbons and BTEX compounds were not detected in the five trip blanks (TB-1 through TB-5) analyzed in association with this monitoring event (Table 1).

NOVEMBER 2008 QUALITY ASSURANCE SAMPLES

Duplicate groundwater samples were collected from wells MW-6, MW-17, and MW-30. All analyses were duplicated between the original groundwater and duplicate samples. The results were well correlated (i.e., the difference between original and duplicate sample concentrations was within 10 percent) for MW-6 and MW-30. The gasoline-range hydrocarbon, benzene and toluene results were not well correlated between the original and duplicate samples for MW-17. The lack of good correlation between the original and duplicate samples may be attributed to turbidity or a less homogeneous sample collection. Please refer to Table 1 for these results.

Three field blank samples were collected during the November 2008 groundwater monitoring event. The field blank samples were collected at monitoring wells MW-6 (MW-6-FB), MW-17 (MW-17-FB) and MW-30 (MW-30-FB). Field blank samples were collected consistent with the methods as described above for the April/May 2008 monitoring event. Field blank samples were analyzed for gasoline-range hydrocarbons and BTEX. No analytes were detected in these three field blank samples (Table 1).

Trip blank samples, as described above, were also used in sample transport for the November 2008 monitoring event. The trip blank samples were analyzed for BTEX and gasoline-range hydrocarbons. Gasoline-range hydrocarbons and BTEX compounds were not detected in the eight trip blanks (QA-1s and QA-2s) analyzed in association with this monitoring event (Table 1).

CONCLUSION

The April/May 2008 and November 2008 groundwater monitoring events represent the first two of such monitoring events that have been performed following shut-down of the DPE remediation system. A preliminary review of groundwater analytical results suggests that the DPE system was successful in reducing the lighter-end fraction of petroleum constituent concentrations (i.e., BTEX and gasoline-range hydrocarbons), while heavier-end fraction concentrations (i.e., diesel and heavy-oil range hydrocarbon) have experienced less change. A more thorough comparison of post system shut-down to baseline conditions will be performed following completion of the 2009 groundwater monitoring events, which are anticipated to be performed in April and November 2009.

MNA parameters will continue to be measured in order to evaluate the effectiveness of utilizing ongoing natural degradation to further reduce petroleum hydrocarbon and BTEX compound concentrations over the site.

If you have any questions regarding the content of this report, please contact Peter Catterall at 425-482-3321 or via email at catterallp@saic.com.

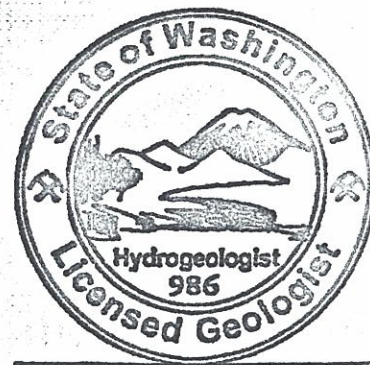
Sincerely,

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

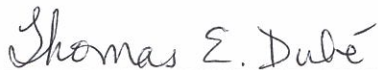


for PHC

Peter H. Catterall
Senior Project Manager



Thomas E. Dubé



Thomas E. Dubé
Licensed Hydrogeologist No. 986

Exp. 11-17-09

Attachments:

Table 1 – Groundwater Monitoring Data and Hydrocarbon Constituent Results

Table 2 – Groundwater Quality Parameter Summary

Table 3 – Monitored Natural Attenuation Parameter Results

Figure 1 – Groundwater Elevation Contour Map – April 28, 2008

Figure 2 – Groundwater Elevation Contour Map – November 3, 2008

Figure 3 – Benzene Concentrations in Groundwater – April/May 2008

Figure 4 - Gasoline-Range Hydrocarbon Concentrations in Groundwater – April/May 2008

Figure 5 – Diesel-Range Hydrocarbon Concentrations in Groundwater – April/May 2008

Figure 6 - Benzene Concentrations in Groundwater - November 2008

Figure 7 - Gasoline-Range Hydrocarbon Concentrations in Groundwater - November 2008

Figure 8 – Diesel-Range Hydrocarbon Concentrations in Groundwater – November 2008

Attachment A – Chemical Concentration Charts

Note: In order to reduce paper used in printing this report, the following attachments have been provided in electronic form only; however, hard copies of these attachments will be provided upon request.

Attachment B – Groundwater Gauging and Sampling Field Data Sheets -April/May 2008

Attachment C – Groundwater Gauging and Sampling Field Data Sheets - November 2008

Attachment D - Laboratory Reports and Chain of Custody Forms - April/May 2008

Attachment E – Laboratory Reports and Chain of Custody Forms -November 2008

Tables

TABLE 1
GROUNDWATER MONITORING DATA AND HYDROCARBON CONSTITUENT RESULTS

*Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	
VP-1	06/14/00	103.03	NM	NM	--	--	75,600	<12,500 ¹	5,000	21.6	14.4	32.8	435	
VP-1	07/24/02	103.03	NP	11.59	0.00	91.44	18,000	1,500	35,000	120	820	280	4,600	
VP-1	10/17-18/02	103.03	NP	12.70	0.00	90.33	7,500	598	27,300	170	756	334	4,820	
VP-1	01/21/03	103.03	NP	12.70	0.00	90.33	14,200	807	36,700	90.5	801	500	6,630	
VP-1	04/23-24/03	103.03	NP	11.63	0.00	91.40	2,830	<500	24,200	110	136	225	2,780	
VP-1	06/30-07/01/03	103.03	NP	12.21	0.00	90.82	20,200	1,750	8,000	36.8	49.2	47.1	618	
VP-1	10/01-02/03	103.03	NP	13.11	0.00	89.92	40,000	6,300	7,600	56	47	22	690	
VP-1	01/21-23/04	103.03	NP	12.21	0.00	90.82	17,000	3,200	4,500	11	6.2	<20	85	
VP-1	04/29-30/04	103.03	NP	11.87	0.00	91.16	3,600	1,100	4,200	24	3.6	9.8	85	
VP-1	07/15-16/04	103.03	NP	13.41	0.00	89.62	1,050	<500	1,880	21.7	2.77	6.92	50.7	
VP-1	08/03/04	103.03	NP	12.71	0.00	90.32	NOT SAMPLED	--	--	--	--	--	--	
VP-1	10/28-11/01/04	103.03	NP	12.84	0.00	90.19	35,000	18,000	2,100	25	5.5	7.6	97	
VP-1	01/24-31/05	103.03	NP	12.38	0.00	90.65	3,600	1,300	670	5.2	0.8	1.4	13	
VP-1	04/18-21/05	103.03	NP	12.09	0.00	90.94	5,500	2,200	340	<1.0	<0.5	0.7	5.2	
VP-1	07/27-28/05	103.03	NP	12.38	0.00	90.65	NOT SAMPLED	--	--	--	--	--	--	
VP-1	11/08-10/05	103.03	NP	13.48	0.00	89.55	NOT SAMPLED DUE TO INSUFFICIENT WATER	--	--	--	--	--	--	
VP-1	02/22/06	103.03	NP	10.89	0.00	92.14	NOT SAMPLED	--	--	--	--	--	--	
VP-1	04/17/06	103.03	NP	12.10	0.00	90.93	NOT SAMPLED	--	--	--	--	--	--	
VP-1	Well Decommissioned September 2006													
VP-2	12/15/99	104.72	NM	NM	--	--	29,900	<2,500 ¹	5,980	935	345	43.8	305	
VP-2	06/14/00	104.72	NM	NM	--	--	2,810	<1,000 ¹	2,030	45.9	16.2	<3.00	196	
VP-2	07/24/02	104.72	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--	
VP-2	10/17-18/02	104.72	NP	13.60	0.00	91.12	NOT SAMPLED DUE TO INSUFFICIENT WATER						--	--
VP-2	01/21/03	104.72	NP	13.63	0.00	91.09	NOT SAMPLED DUE TO INSUFFICIENT WATER						--	--
VP-2	04/23-24/03	104.72	NP	12.15	0.00	92.57	12,100	<250	6,230	549	42.6	106	1,120	
VP-2	06/30-07/01/03	104.72	NP	12.51	0.00	92.21	35,900	1,380	3,330	180	58.8	32.4	510	
VP-2	10/01-02/03	104.72	NP	14.12	0.00	90.60	NOT SAMPLED DUE TO INSUFFICIENT WATER						--	--
VP-2	01/21-23/04	104.72	NP	13.06	0.00	91.66	480,000	<56,000 ¹	1,700	69	16	<10	210	
VP-2	04/29-30/04	104.72	NP	10.53	0.00	94.19	850	2,200	6,400	1,500	94	68	760	
VP-2	07/15-16/04	104.72	NP	13.50	0.00	91.22	NOT SAMPLED DUE TO INSUFFICIENT WATER						--	--
VP-2	08/03/04	104.72	NP	13.66	0.00	91.06	NOT SAMPLED						--	--

TABLE 1
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WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
VP-2	10/28-11/01/04	105.11	NP	14.18	0.00	90.93	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
VP-2	01/24-31/05	105.11	NP	13.51	0.00	91.60	24,000	1,600	640	23	3.6	5.3	57
VP-2	04/18-21/05	105.11	NP	13.20	0.00	91.91	120,000	8,700	<50	2.1	<0.5	<0.5	3.6
VP-2	07/27-28/05	105.11	NP	13.75	0.00	91.36	NOT SAMPLED				--	--	
VP-2	11/08-10/05	105.11	NP	14.08	0.00	91.03	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
VP-2	02/22/06	105.11	NP	12.02	0.00	93.09	NOT SAMPLED						
VP-2	04/17/06	105.11	NP	DRY	0.00	--	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
VP-2	10/17/06	105.11	NP	14.66	0.00	90.45	NOT SAMPLED				--	--	
VP-2	04/17/07	105.11	NP	DRY	0.00	--	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
VP-2	12/04/07	105.11	NP	14.70	0.00	90.41	NOT SAMPLED				--	--	
VP-2	04/28/08	105.11	NP	14.65 ²	0.00	90.46	NOT SAMPLED				--	--	
VP-2	11/03/08	105.11	NP	14.76	0.00	90.35	NOT SAMPLED				--	--	
VP-3/MW-2	07/07/93	104.75	NP	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
VP-3/MW-2	07/24/02	104.75	NP	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
VP-3/MW-2	10/17-18/02	104.75	NP	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
VP-3/MW-2	01/21/03	104.75	NP	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
VP-3/MW-2	04/23-24/03	104.75	NP	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
VP-3/MW-2	06/30-07/01/03	104.75	NP	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
VP-3/MW-2	10/01-02/03	104.75	NP	9.05	0.00	95.70	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
VP-3/MW-2	01/21-23/04	104.75	NP	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
VP-3/MW-2	04/29-30/04	104.75	NP	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
VP-3/MW-2	07/15-16/04	104.75	NP	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
VP-3/MW-2	08/03/04	104.75	NP	DRY	--	--	NOT SAMPLED				--	--	
VP-3/MW-2	10/28-11/01/04	104.75	NP	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
VP-3/MW-2	01/24-31/05	104.75	NP	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
VP-3/MW-2	04/18-21/05	104.75	NP	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
VP-3/MW-2	07/27-28/05	104.75	NP	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
VP-3/MW-2	11/08-10/05	104.75	NP	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
VP-3/MW-2	04/17/06	104.75	NP	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
VP-3/MW-2	Well Decommissioned September 2006												
VP-4	06/13/00	103.35	NM	NM	--	--	1,850	<552 ¹	26,400	1,020	3,270	809	6,160

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WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	
VP-4	07/24/02	103.35	NP	11.89	0.00	91.46	78,000	<9,700 ¹	89,000	7,300	7,500	1,900	13,000	
VP-4	10/17-18/02	103.35	12.75	12.78	0.03	90.59	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	
VP-4	01/21/03	103.35	12.61	12.71	0.10	90.72	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	
VP-4	04/23-24/03	103.35	11.72	11.75	0.03	91.62	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	
VP-4	06/30-07/01/03	103.35	12.31	12.34	0.03	91.03	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	
VP-4	10/01-02/03	103.35	13.26	13.29	0.03	90.08	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	
VP-4	01/21-23/04	103.35	12.34	12.37	0.03	91.00	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	
VP-4	04/29-30/04	103.35	NP	12.21	0.00	91.14	28,000	<2,300 ¹	150	1.7	2.6	1	20	
VP-4	07/15-16/04	103.35	NP	12.65	0.00	90.70	18,600	789	32,200	2,230	746	212	3,710	
VP-4	08/03/04	103.35	NP	12.91	0.00	90.44	NOT SAMPLED					--	--	
VP-4	10/28-11/01/04	103.35	NP	12.98	0.00	90.37	330,000	<100,000 ¹	48,000	2,500	1,400	560	5,400	
VP-4	01/24-31/05	103.35	NP	12.38	0.00	90.97	110,000	<9,500 ¹	19,000	360	750	89	2,000	
VP-4	04/18-21/05	103.35	NP	12.14	0.00	91.21	46,000	<10,000 ¹	2,800	23	30	6.8	270	
VP-4	07/27-28/05	103.35	NP	12.51	0.00	90.84	NOT SAMPLED					--	--	
VP-4	11/08-10/05	103.35	NP	12.91	0.00	90.44	NOT SAMPLED					--	--	
VP-4	02/22/06	103.35	NP	11.03	0.00	92.32	NOT SAMPLED					--	--	
VP-4	04/17/06	103.35	NP	12.12	0.00	91.23	NOT SAMPLED					--	--	
VP-4	10/17/06	103.35	NP	14.10	0.00	89.25	NOT SAMPLED					--	--	
VP-4	04/17/07	103.35	NP	DRY	0.00	--	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
VP-4	12/04/07	103.35	NP	DRY	0.00	--	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
VP-4	04/28/08	103.35	NP	DRY	0.00	--	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
VP-4	11/03/08	103.35	NP	DRY	0.00	--	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
VP-5/MW-5	11/03/86	103.21	NP	15.15	0.00	88.06	NOT SAMPLED					--	--	
VP-5/MW-5	09/90	102.92	NP	13.49	0.00	89.43	NOT SAMPLED					--	--	
VP-5/MW-5	03/26-28/91	102.91	NP	12.58	0.00	90.33	--	--	--	5,300	1,300	900	4,600	
VP-5/MW-5	07/07/93	102.91	NP	12.29	0.00	90.62	NOT SAMPLED					--	--	
VP-5/MW-5	12/15/99	102.91	NM	NM	--	--	2,490	<500	23,400	841	191	1,480	7,720	
VP-5/MW-5	06/13/00	102.91	NM	NM	--	--	1,340	<1,120 ¹	25,600	793	155	1,380	5,690	
VP-5/MW-5	07/24/02	102.63	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
VP-5/MW-5	10/17-18/02	102.63	NP	12.31	0.00	90.32	3,900	<500	15,900	318	49.3	880	1,870	
VP-5/MW-5	01/21/03	102.63	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--

TABLE 1
GROUNDWATER MONITORING DATA AND HYDROCARBON CONSTITUENT RESULTS

*Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	
VP-5/MW-5	04/23-24/03	102.63	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
VP-5/MW-5	06/30-07/01/03	102.63	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
VP-5/MW-5	10/01-02/03	102.63	NP	12.81	0.00	89.82	1,500	270	22,000	330	76	1,000	2,200	
VP-5/MW-5	01/21-23/04	102.63	NP	11.91	0.00	90.72	1,500	310	19,000	310	100	980	1,600	
VP-5/MW-5	04/29-30/04	102.63	NP	11.80	0.00	90.83	1,400	400	3,500	61	13	190	180	
VP-5/MW-5	07/15-16/04	102.63	NP	12.20	0.00	90.43	<250	<500	7,900	58.3	18.4	384	475	
VP-5/MW-5	08/03/04	102.63	NP	12.52	0.00	90.11	NOT SAMPLED		--	--	--	--	--	
VP-5/MW-5	10/28-11/01/04	102.63	NP	12.57	0.00	90.06	710	<200	19,000	98	56	860	1,600	
VP-5/MW-5	01/24-31/05	102.63	NP	11.96	0.00	90.67	910	<250	16,000	86	60	770	1,300	
VP-5/MW-5	04/18-21/05	102.63	NP	11.75	0.00	90.88	3,100	<250	12,000	39	42	710	1,200	
VP-5/MW-5	07/27-28/05	102.63	NP	12.05	0.00	90.58	NOT SAMPLED		--	--	--	--	--	
VP-5/MW-5	11/08-10/05	102.63	NP	12.42	0.00	90.21	NOT SAMPLED		--	--	--	--	--	
VP-5/MW-5	02/22/06	102.63	NP	10.62	0.00	92.01	NOT SAMPLED		--	--	--	--	--	
VP-5/MW-5	04/17/06	102.63	NP	11.56	0.00	91.07	NOT SAMPLED		--	--	--	--	--	
VP-5/MW-5	10/17/06	102.63	NP	14.03	0.00	88.60	NOT SAMPLED		--	--	--	--	--	
VP-5/MW-5	04/17/07	102.63	NP	DRY	0.00	--	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
VP-5/MW-5	12/04/07	102.63	NP	DRY	0.00	--	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
VP-5/MW-5	04/28/08	102.63	NP	DRY	0.00	--	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
VP-5/MW-5	11/04/08	102.63	NP	14.3	0.00	88.33	160	<66	110	<0.5	<0.5	<0.5	0.8	
VP-6	NOT MONITORED/SAMPLED. REPLACED BY WELL DPE-1. SEE DPE-1 FOR VP-6 DATA.													
VP-7/MW-3	11/03/86	100.81	NP	12.13	0.00	88.68	NOT SAMPLED		--	--	--	--	--	
VP-7/MW-3	09/90	100.51	NP	11.48	0.00	89.03	NOT SAMPLED		--	--	--	--	--	
VP-7/MW-3	03/26-28/91	100.48	NP	10.36	0.00	90.12	--	--	--	3,700	1,600	740	3,500	
VP-7/MW-3	07/07/93	100.48	NP	10.46	0.00	90.02	--	--	20,000	4,700	2,000	910	3,600	
VP-7/MW-3	10/95	100.48	NM	NM	--	--	--	--	33,000	11,700	2,330	1,070	4,130	
VP-7/MW-3	01/97	100.48	NM	NM	--	--	--	--	51,000	12,400	5,200	990	5,200	
VP-7/MW-3	04/97	100.48	NM	NM	--	--	--	--	53,000	11,100	4,800	1,400	7,600	
VP-7/MW-3	07/97	100.48	NM	NM	--	--	--	--	37,000	11,000	3,700	1,500	7,100	
VP-7/MW-3	11/97	100.48	NM	NM	--	--	--	--	34,000	15,900	3,600	1,500	6,600	
VP-7/MW-3	12/14/99	100.48	NM	NM	--	--	3,310	<500	73,400	16,800	9,670	1,890	10,500	
VP-7/MW-3	06/14/00	100.48	NM	NM	--	--	931	<1,460 ¹	54,400	10,000	8,230	1,380	7,470	

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*Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
VP-7/MW-3	07/24/02	100.40	NP	9.74	0.00	90.66	5,800	580	60,000	8,200	7,000	1,500	8,300
VP-7/MW-3	10/17-18/02	100.40	NP	10.57	0.00	89.83	5,160	510	71,600	11,100	5,880	1,940	10,800
VP-7/MW-3	01/21/03	100.40	NP	10.29	0.00	90.11	714	<500	41,600	9,440	1,470	1,360	6,190
VP-7/MW-3	04/23-24/03	100.40	INACCESSIBLE - VEHICLE PARKED OVER WELL										
VP-7/MW-3	06/30-07/01/03	100.40	10.08	10.11	0.03	90.31	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--
VP-7/MW-3	10/01-02/03	100.40	NP	10.98	0.00	89.42	3,800	520	61,000	10,000	4,500	2,000	10,000
VP-7/MW-3	01/21-23/04	100.40	NP	10.09	0.00	90.31	<250	<250	1,700	660	69	70	350
VP-7/MW-3	04/29-30/04	100.40	NP	9.96	0.00	90.44	<800 ¹	<1,000 ¹	<50	28	1.7	1.8	6.0
VP-7/MW-3	07/15-16/04	100.40	NP	10.40	0.00	90.00	342	<500	36,800	9,900	985	1,270	2,770
VP-7/MW-3	08/03/04	100.40	NP	10.66	0.00	89.74	NOT SAMPLED		--	--	--	--	--
VP-7/MW-3	10/28-11/01/04	100.40	NP	10.76	0.00	89.64	850	<1,000 ¹	100	250	<0.5	<0.5	1.6
VP-7/MW-3	01/24-31/05	100.40	NP	10.13	0.00	90.27	390	<250	21,000	4,900	1,900	890	3,200
VP-7/MW-3	04/18-21/05	100.40	NP	9.97	0.00	90.43	4,000	<580	26,000	5,800	760	1,300	5,100
VP-7/MW-3	07/27-28/05	100.40	NP	10.28	0.00	90.12	NOT SAMPLED		--	--	--	--	--
VP-7/MW-3	11/08-10/05	100.40	NP	10.57	0.00	89.83	NOT SAMPLED		--	--	--	--	--
VP-7/MW-3	02/22/06	100.40	NP	9.89	0.00	90.51	NOT SAMPLED		--	--	--	--	--
VP-7/MW-3	04/17/06	100.40	NP	9.94	0.00	90.46	NOT SAMPLED		--	--	--	--	--
VP-7/MW-3	10/17/06	100.40	NP	12.31	0.00	88.09	NOT SAMPLED		--	--	--	--	--
VP-7/MW-3	04/17/07	100.40	NP	DRY	0.00	--	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
VP-7/MW-3	12/04/07	100.40	NP	DRY	0.00	--	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
VP-7/MW-3	04/28/08	100.40	NP	DRY	0.00	--	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
VP-7/MW-3	11/03/08	100.40	NP	DRY	0.00	--	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
VP-8/MW-7	11/03/86	105.33	Trace	14.22	0.00	91.11	NOT SAMPLED		--	--	--	--	--
VP-8/MW-7	09/90	104.88	NP	13.3	0.00	91.58	NOT SAMPLED		--	--	--	--	--
VP-8/MW-7	03/26-28/91	104.88	NP	12.02	0.00	92.86	--	--	--	280	510	130	1,100
VP-8/MW-7	07/07/93	104.88	NP	12.23	0.00	92.65	--	--	7,000	220	210	61	480
VP-8/MW-7	10/95	104.88	NM	NM	--	--	--	--	3,100	2.5	1.2	3	16
VP-8/MW-7	01/97	104.88	NM	NM	--	--	--	--	8,000	816	824	26	594
VP-8/MW-7	04/97	104.88	NM	NM	--	--	--	--	18,000	605	786	119	1,774
VP-8/MW-7	07/97	104.88	NM	NM	--	--	--	--	9,100 J	96	246	52	980
VP-8/MW-7	11/97	104.88	NM	NM	--	--	--	--	830 J	5.6	7	11	32.6

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WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
VP-8/MW-7	12/15/99	104.88	NM	NM	--	--	2,780	<500	7,640	540	927	201	1,430
VP-8/MW-7	06/13/00	104.88	NM	NM	--	--	2,280	<1,100 ¹	233	1.10	1.81	1.95	7.99
VP-8/MW-7	07/24/02	104.88	NP	11.70	0.00	93.18	1,800	420	1,500	9.4	9.2	34	50
VP-8/MW-7	10/17-18/02	104.88	NP	12.78	0.00	92.10	1,830	<500	552	9.75	1.45	4.25	5.73
VP-8/MW-7	01/21/03	104.88	NP	12.63	0.00	92.25	1,120	<500	1,910	139	291	59.1	216
VP-8/MW-7	04/23-24/03	104.88	NP	10.72	0.00	94.16	800	<500	700	65.6	35.7	22.9	69.8
VP-8/MW-7	06/30-07/01/03	104.88	NP	12.45	0.00	92.43	939	<500	379	2.68	1.57	3.70	4.69
VP-8/MW-7	10/01-02/03	104.88	NP	13.49	0.00	91.39	19,000	2,100	290	3.4	1.2	5.8	11
VP-8/MW-7	01/21-23/04	104.88	NP	12.16	0.00	92.72	3,400	620	89	<0.5	<0.5	<0.5	<1.5
VP-8/MW-7	04/29-30/04	104.88	NP	11.91	0.00	92.97	620	<250	460	0.6	<0.5	1.6	<3.0
VP-8/MW-7	07/15-16/04	104.88	NP	12.74	0.00	92.14	528	<500	430	0.985	<0.500	1.50	2.40
VP-8/MW-7	08/03/04	104.88	NP	12.94	0.00	91.94	NOT SAMPLED	--	--	--	--	--	--
VP-8/MW-7	10/28-11/01/04	104.88	NP	13.09	0.00	91.79	130,000	<20,000 ¹	210	2.7	0.7	2.6	9.9
VP-8/MW-7	01/24-31/05	104.88	NP	12.49	0.00	92.39	<250	<250	450	5.1	9.9	3.2	21
VP-8/MW-7	04/18-21/05	104.88	NP	12.30	0.00	92.58	<250	<250	240	0.9	<0.5	6.2	4.7
VP-8/MW-7	07/27-28/05	104.88	NP	12.59	0.00	92.29	NOT SAMPLED	--	--	--	--	--	--
VP-8/MW-7	11/08-10/05	104.88	NP	13.12	0.00	91.76	NOT SAMPLED	--	--	--	--	--	--
VP-8/MW-7	02/22/06	104.88	NP	11.05	0.00	93.83	NOT SAMPLED	--	--	--	--	--	--
VP-8/MW-7	04/17/06	104.88	NP	12.40	0.00	92.48	NOT SAMPLED	--	--	--	--	--	--
VP-8/MW-7	08/08/06	104.88	NP	14.00	0.00	90.88	--	--	380	<2.0	0.9	2.8	6.5
VP-8/MW-7	04/17-18/07	104.88	NP	15.21	0.00	89.67	--	--	270	1.8	0.8	1.1	2.9
VP-8/MW-7	12/04/07	104.88	NP	DRY	0.00	--	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
VP-8/MW-7	04/28-29/08	104.88	NP	15.23 ²	0.00	89.65	<76	<95	390	<0.5	<0.5	<0.5	<0.5
VP-8/MW-7 ⁴	12/11/08	104.88	NP	13.98	0.00	90.90	71	<74	370	<0.5	<0.5	<0.5	<0.5
VP-9	12/15/99	112.35	NM	NM	--	--	<250	<500	118	<0.500	<0.500	<0.500	<1.00
VP-9	06/14/00	112.35	NM	NM	--	--	1,420	<1,130 ¹	474	4.97	<1.30	55.6	4.48
VP-9	07/24/02	112.35	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--
VP-9	10/17-18/02	112.35	NP	11.90	0.00	100.45	13,200	786	1,910	11.3	2.62	8.86	14.7
VP-9	01/21/03	112.35	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--
VP-9	04/23-24/03	112.35	NP	8.28	0.00	104.07	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00
VP-9	06/30-07/01/03	112.35	NP	9.74	0.00	102.61	<250	<500	681	1.22	0.735	5.07	3.28

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VP-9	10/01-02/03	112.35	NP	11.72	0.00	100.63	5,400	1,300	1,600	5.3	1.4	2.3	<10	
VP-9	01/21-23/04	112.35	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
VP-9	04/29-30/04	112.35	NP	9.58	0.00	102.77	1,500	<1,000 ¹	750	0.8	<0.5	13	<1.5	
VP-9	07/15-16/04	112.35	NP	11.15	0.00	101.20	259	<500	1,270	1.67	0.699	2.79	5.77	
VP-9	08/03/04	112.35	NP	12.50	0.00	99.85	NOT SAMPLED		--	--	--	--	--	
VP-9	10/28-11/01/04	112.35	NP	9.82	0.00	102.53	<800 ¹	<1,000 ¹	610	<0.5	<0.5	<0.5	<1.5	
VP-9	01/24-31/05	112.35	NP	10.30	0.00	102.05	<250	<250	100	<0.5	<0.5	<0.5	<1.5	
VP-9	04/18-21/05	112.35	NP	9.00	0.00	103.35	NOT SAMPLED		--	--	--	--	--	
VP-9	07/27-28/05	112.35	NP	9.77	0.00	102.58	NOT SAMPLED		--	--	--	--	--	
VP-9	11/08-10/05	112.35	NP	DRY	0.00	--	NOT SAMPLED		--	--	--	--	--	
VP-9	02/22/06	112.35	NP	9.38	0.00	102.97	NOT SAMPLED		--	--	--	--	--	
VP-9	04/17/06	112.35	NP	9.10	0.00	103.25	NOT SAMPLED		--	--	--	--	--	
VP-9	04/28/08	112.35	NP	7.94	0.00	104.41	NOT SAMPLED		--	--	--	--	--	
VP-9	11/03/08	112.35	NP	DRY	0.00	--	NOT SAMPLED		--	--	--	--	--	
MW-4	11/03/86	102.38	NP	13.55	0.00	88.83	NOT SAMPLED		--	--	--	--	--	
MW-4	09/90	102.08	NP	12.87	0.00	89.21	NOT SAMPLED		--	--	--	--	--	
MW-4	03/26-28/91	102.08	NP	11.78	0.00	90.30	--	--	--	10,000	12,000	500	9,800	
MW-4	10/95	102.08	NM	NM	--	--	--	--	95,000	19,600 E	12,000	2,070	10,800	
MW-4	01/97	102.08	NM	NM	--	--	--	--	88,000	12,900	12,400	1,400	10,600	
MW-4	04/97	102.08	NM	NM	--	--	--	--	100,000	14,300	14,500	1,700	11,000	
MW-4	07/97	102.08	NM	NM	--	--	--	--	120,000	19,600	19,700	2,100	13,100	
MW-4	11/97	102.08	NM	NM	--	--	--	--	89,000	17,500	16,000	1,900	12,200	
MW-4	12/15/99	102.08	NM	NM	--	--	3,340	<500	73,300	13,700	13,500	1,830	11,000	
MW-4	06/14/00	102.08	NM	NM	--	--	3,390	<1,240 ¹	74,400	14,400	9,440	1,840	10,800	
MW-4	07/24/02	102.07	NP	11.18	0.00	90.89	10,000	680	83,000	12,000	10,000	1,800	12,400	
MW-4	10/17-18/02	102.07	NP	11.98	0.00	90.09	9,860	697	110,000	14,500	11,600	2,630	15,200	
MW-4	10/17-18/02	102.07	--	--	--	--	7,100	<500	92,400	12,400	9,980	2,090	12,200	
MW-4	01/21/03	102.07	NP	11.81	0.00	90.26	2,540	<500	80,000	10,700	10,100	1,920	11,700	
MW-4	04/23-24/03	102.07	NP	11.03	0.00	91.04	1,680	<500	79,300	8,990	7,350	1,780	10,300	
MW-4	06/30-07/01/03	102.07	NP	11.55	0.00	90.52	3,910	<500	108,000	12,100	11,200	2,630	15,300	
MW-4	10/01-02/03	102.07	NP	12.46	0.00	89.61	3,800	<500	100,000	9,700	11,000	2,000	12,000	

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MW-4	01/21-23/04	102.07	NP	11.59	0.00	90.48	62,000	2,800	93,000	11,000	10,000	1,800	12,000
MW-4	04/29-30/04	102.07	NP	11.48	0.00	90.59	13,000	610	80,000	8,900	8,200	1,600	11,000
MW-4	07/15-16/04	102.07	NP	13.41	0.00	88.66	943	<500	100,000	10,300	7,600	2,090	13,300
MW-4	08/03/04	102.07	NP	12.09	0.00	89.98	NOT SAMPLED		--	--	--	--	--
MW-4	10/28-11/01/04	102.07	NP	12.26	0.00	89.81	7,500	<1,000 ¹	71,000	9,000	5,900	2,000	12,000
MW-4	01/24-31/05	102.07	NP	11.68	0.00	90.39	1,500	<250	56,000	8,900	5,100	1,700	9,600
MW-4	04/18-21/05	102.07	NP	11.47	0.00	90.60	3,700	<510	64,000	9,200	6,800	2,000	12,000
MW-4	07/27-28/05	102.07	NP	11.73	0.00	90.34	NOT SAMPLED		--	--	--	--	--
MW-4	11/08-10/05	102.07	NP	12.12	0.00	89.95	NOT SAMPLED		--	--	--	--	--
MW-4	02/22/06	102.07	NP	10.38	0.00	91.69	NOT SAMPLED						
MW-4	04/17/06	102.07	NP	11.59	0.00	90.48	NOT SAMPLED		--	--	--	--	--
MW-4	08/08/06	102.07	NP	13.37	0.00	88.70	--	--	23,000	1,500	870	750	4,400
MW-4	08/19/06	102.07	13.72	13.78	0.06	88.34	NOT SAMPLED		--	--	--	--	--
MW-4	10/17/06	102.07	NP	13.92	0.00	88.15	NOT SAMPLED		--	--	--	--	--
MW-4	04/17-18/07	102.07	NP	15.65	0.00	86.42	210	<94	650	280	7.7	66	22
MW-4	12/04/07	102.07	NP	DRY	0.00	--	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
MW-4	04/28/08	101.95	NP	17.21 ²	0.00	84.74	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
MW-4	11/10/08	101.95	NP	13.85	0.00	88.10	2,300	67	150	9	<0.5	<0.5	<0.5
MW-6	11/03/86	113.71	22.03	24.29	2.26	91.23	NOT SAMPLED		--	--	--	--	--
MW-6	09/90	113.38	21.14	21.95	0.81	92.08	NOT SAMPLED		--	--	--	--	--
MW-6	03/26-28/91	113.38	20.55	21.22	0.67	92.70	--	--	--	25,000	29,000	2,500	19,000
MW-6	06/25/93	113.38	NP	21.00	0.00	92.38	NOT SAMPLED		--	--	--	--	--
MW-6	07/07/93	113.38	20.70	22.30	1.60	92.36	NOT SAMPLED		--	--	--	--	--
MW-6	10/95	113.38	NM	NM	--	--	--	--	62,000	12,000 E	13,800 E	920	5,690
MW-6	01/97	113.38	NM	NM	--	--	--	--	54,000	7,290	12,400	2,340	19,800
MW-6	07/24/02	113.32	NP	19.76	0.00	93.56	29,000	<10,000 ¹	31,000	8,900	1,600	820	4,200
MW-6	10/17-18/02	113.32	20.64	20.69	0.05	92.67	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--
MW-6	01/21/03	113.32	21.71	21.74	0.03	91.60	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--
MW-6	04/23-24/03	113.32	20.88	20.91	0.03	92.43	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--
MW-6	06/30-07/01/03	113.32	21.38	21.41	0.03	91.93	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--
MW-6	10/01-02/03	113.32	23.04	23.07	0.03	90.27	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--

TABLE 1
GROUNDWATER MONITORING DATA AND HYDROCARBON CONSTITUENT RESULTS

*Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	
MW-6	01/21-23/04	113.32	INACCESSIBLE - JUNKED VEHICLE OVER WELL					--	--	--	--	--	--	--
MW-6	04/29-30/04	113.32	20.20	20.22	0.02	93.12	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	
MW-6	07/15-16/04	113.32	NP	20.51	0.00	92.81	3,800	<500	46,600	9,610	3,190	758	3,060	
MW-6	08/03/04	113.32	NP	20.65	0.00	92.67	NOT SAMPLED					--	--	
MW-6	10/28-11/01/04	113.32	NP	20.93	0.00	92.39	9,200	<960 ¹	24,000	8,600	2,800	690	3,100	
MW-6	01/24-31/05	113.32	NP	20.38	0.00	92.94	11,000	<480	5,600	220	60	110	310	
MW-6	04/18-21/05	113.32	NP	20.31	0.00	93.01	7,700	<1,000 ¹	3,600	1,000	120	110	360	
MW-6	07/27-28/05	113.32	NP	20.39	0.00	92.93	NOT SAMPLED					--	--	
MW-6	11/08-10/05	113.32	NP	20.79	0.00	92.53	NOT SAMPLED					--	--	
MW-6	02/22/06	113.32	NP	19.49	0.00	93.83	NOT SAMPLED					--	--	
MW-6	04/17/06	113.32	NP	26.22	0.00	87.10	NOT SAMPLED					--	--	
MW-6	08/09/06	113.32	NP	25.85	0.00	87.47	14,000	<2,300 ¹	15,000	1,900	1,000	590	1,700	
MW-6	10/17/06	113.32	NP	27.06	0.00	86.26	NOT SAMPLED					--	--	
MW-6	04/17/07	113.32	NP	27.12	0.00	86.20	NOT SAMPLED					--	--	
MW-6	12/04/07	113.32	NP	DRY	0.00	--	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
MW-6	04/28-05/01/08	113.12	NP	22.28	0.00	90.84	8,600	1,200	360	3	0.7	5	3	
MW-6	11/10/08	113.12	NP	20.93	0.00	92.19	3,200	<660	<50	0.6	<0.5	<0.5	<0.5	
MW-6	11/10/08	113.12	DUP-1-111008				--	3,200	<660	<50	0.6	<0.5	<0.5	<0.5
MW-9	11/03/86	114.65	NP	22.56	0.00	92.09	NOT SAMPLED					--	--	
MW-9	09/90	114.40	NP	21.28	0.00	93.12	NOT SAMPLED					--	--	
MW-9	03/26-28/91	114.65	20.44	20.61	0.17	94.18	--	--	--	1,600	2,900	250	3,100	
MW-9	06/25/93	114.65	NP	20.12	0.00	94.53	NOT SAMPLED					--	--	
MW-9	07/07/93	114.65	NP	20.11	0.00	94.54	NOT SAMPLED					--	--	
MW-9	10/95	114.65	NM	NM	--	--	--	--	3,400	3,520	70 J	<200	312 J	
MW-9	01/97	114.65	NM	NM	--	--	--	--	4,400	2,600	53	310	285	
MW-9	04/97	114.65	NM	NM	--	--	--	--	9,100	2,980	173	413	674	
MW-9	07/97	114.65	NM	NM	--	--	--	--	2,200 J	2,680	127	460	620 J	
MW-9	11/97	114.65	NM	NM	--	--	--	--	5,000	2,010	80	334	400	
MW-9	12/15/99	114.65	NM	NM	--	--	8,510	<500	4,460	831	22.4	274	138	
MW-9	06/14/00	114.65	NM	NM	--	--	6,070	<500	4,740	786	26.0	274	156	
MW-9	10/17-18/02	114.27	NP	20.88	0.00	93.39	43,600	671	6,380	493	13.0	230	107	

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*Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	
MW-9	01/21/03	114.27	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
MW-9	04/23-24/03	114.27	NP	20.04	0.00	94.23	3,680	<500	6,760	388	15.9	277	105	
MW-9	06/30-07/01/03	114.27	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
MW-9	10/01-02/03	114.27	NP	21.26	0.00	93.01	33,000	<5,000 ¹	3,500	110	30	100	<100	
MW-9	01/21-23/04	114.27	NP	20.36	0.00	93.91	100,000	<5,100 ¹	2,300	7.2	2.4	45	19	
MW-9	04/29-30/04	114.27	NP	20.38	0.00	93.89	92,000	<5,000 ¹	1,200	2.0	1.2	10	7.8	
MW-9	07/15-16/04	114.27	NP	20.77	0.00	93.50	2,540	<500	9,540	3.84	10.4	25.9	31.6	
MW-9	08/03/04	114.27	NP	20.92	0.00	93.35	NOT SAMPLED		--	--	--	--	--	
MW-9	10/28-11/01/04	114.27	NP	21.22	0.00	93.05	3,900	420	300	1.4	0.5	1.9	<3.0	
MW-9	01/24-31/05	114.27	NP	20.66	0.00	93.61	140,000	<5,300 ¹	730	1.7	<1.0	2.7	<6.0	
MW-9	04/18-21/05	114.27	NP	20.59	0.00	93.68	14,000	<630 ¹	480	1.4	<1.0	5.7	3.1	
MW-9	07/27-28/05	114.27	NP	20.65	0.00	93.62	NOT SAMPLED		--	--	--	--	--	
MW-9	11/08-10/05	114.27	NP	21.29	0.00	92.98	NOT SAMPLED		--	--	--	--	--	
MW-9	02/22/06	114.27	NP	19.75	0.00	94.52	NOT SAMPLED		--	--	--	--	--	
MW-9	04/17/06	114.27	NP	22.55	0.00	91.72	NOT SAMPLED		--	--	--	--	--	
MW-9	08/09/06	114.27	NP	22.80	0.00	91.47	2,700	<540 ¹	450	66	1.9	0.8	47	
MW-9	10/17/06	114.27	NP	24.12	0.00	90.15	NOT SAMPLED		--	--	--	--	--	
MW-9	04/17/07	114.27	NP	23.37	0.00	90.90	NOT SAMPLED		--	--	--	--	--	
MW-9	12/04-05/07	114.27	NP	23.15	0.00	91.12	2,200	280	<50	<0.5	<0.5	<0.5	<1.5	
MW-9	05/01/08	114.27	NP	NOT SAMPLED, Filled with mud			--	--	--	--	--	--	--	
MW-9	11/10/08	114.27	NP	21.29	0.00	92.98	2,000	97	130	0.5	<0.5	<0.5	<0.5	
MW-10	11/03/86	115.75	NP	14.84	0.00	100.91	NOT SAMPLED		--	--	--	--	--	
MW-10	09/90	115.49	NP	14.75	0.00	100.74	NOT SAMPLED		--	--	--	--	--	
MW-10	03/26-28/91	115.75	NP	13.14	0.00	102.61	--	--	--	<5	<5	<5	<5	
MW-10	03/26-28/91	Duplicate Sample					--	--	--	<5	<5	<5	<5	
MW-10	06/25/93	115.75	NP	13.63	0.00	102.12	NOT SAMPLED		--	--	--	--	--	
MW-10	07/07/93	115.75	NP	13.81	0.00	101.94	--	--	380	13	<5.0	11	24	
MW-10	10/95	115.75	NM	NM	--	--	--	--	780	1.8	2.9	0.82 J	5.6	
MW-10	01/97	115.75	NM	NM	--	--	--	--	180	1.5	<1	<1	<2	
MW-10	04/97	115.75	NM	NM	--	--	--	--	420	5.1	1	<1	2.0 J	
MW-10	07/97	115.75	NM	NM	--	--	--	--	1,100	10	2.1	2.4	4.34 J	

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WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW-10	11/97	115.75	NM	NM	--	--	--	--	1,000	4.2	2	4.8	2.2 J
MW-10	09/09/99	115.75	NP	13.36	0.00	102.39	NOT SAMPLED		--	--	--	--	--
MW-10	12/15/99	115.75	NM	NM	--	--	353	<500	618	7.02	<0.910	<0.850	<4.22
MW-10	06/14/00	115.75	NM	NM	--	--	<250	<500	99.2	1.56	ND	ND	ND
MW-10	07/24/02	115.28	NM	13.14	0.00	102.14	320	600	240	2.5/2	<0.50/<0.5	<1.0/0.5	<1.5/<0.5
MW-10	10/17-18/02	115.28	NM	13.59	0.00	101.69	667	<500	490	3.42	<0.500	1.34	5.00
MW-10	01/21/03	115.28	NM	12.46	0.00	102.82	<250	<500	416	3.44	0.550	0.519	3.24
MW-10	04/23-24/03	115.28	NM	11.76	0.00	103.52	--	--	<50.0	<0.500	<0.500	<0.500	<1.00
MW-10	06/30-07/01/03	115.28	NM	12.91	0.00	102.37	<250	<500	255	2.01	<0.500	0.535	2.53
MW-10	10/01-02/03	115.28	NM	13.68	0.00	101.60	<250	<250	190	2.6	<0.5	0.5	<3.0
MW-10	01/21-23/04	115.28	NM	11.99	0.00	103.29	<250	<250	<50	<0.5	<0.5	<0.5	<1.5
MW-10	04/29-30/04	115.28	NM	13.23	0.00	102.05	<250	<250	<50	1.5	<0.5	<0.5	<1.5
MW-10	07/15-16/04	115.28	NM	13.43	0.00	101.85	<250	<500	362	2.75	<0.500	0.549	3.45
MW-10	08/03/04	115.28	NM	13.53	0.00	101.75	NOT SAMPLED		--	--	--	--	--
MW-10	10/28-11/01/04	115.28	NM	13.31	0.00	101.97	<82	<100	210	4.1	<0.5	1.2	2.1
MW-10	01/24-31/05	115.28	NM	12.36	0.00	102.92	<250	<250	<50	<0.5	<0.5	<0.5	<1.5
MW-10	04/18-21/05	115.28	NM	12.70	0.00	102.58	NOT SAMPLED		--	--	--	--	--
MW-10	07/27-28/05	115.28	NM	13.39	0.00	101.89	NOT SAMPLED		--	--	--	--	--
MW-10	11/08-10/05	115.28	NM	13.11	0.00	102.17	NOT SAMPLED		--	--	--	--	--
MW-10	02/22/06	115.28	NM	11.84	0.00	103.44	NOT SAMPLED		--	--	--	--	--
MW-10	04/17/06	115.28	NM	14.66	0.00	100.62	NOT SAMPLED		--	--	--	--	--
MW-10	10/17/06	115.28	NM	14.68	0.00	100.60	NOT SAMPLED		--	--	--	--	--
MW-10	04/17-19/07	115.28	NM	13.05	0.00	102.23	<75	<94	100	1.4	<0.5	<0.5	<1.5
MW-10	12/04-05/07	115.28	NM	14.33	0.00	100.95	<78	<98	150	2.0	<2.0	0.9	<5.0
MW-10	04/28-05/01/08	115.28	NM	12.71 ²	0.00	102.57	<77	<97	<50	0.8	<0.5	<0.5	<0.5
MW-10	11/10/08	115.28	NP	12.66	0.00	102.62	<30	<69	<50	0.7	<0.5	<0.5	<0.5
MW-11	03/26-28/91	97.32	NP	11.7	0.00	85.62	--	--	--	<5	<5	<5	<5
MW-11	07/24/02	97.32	NP	11.16	0.00	86.16	<250	<250	<50	<0.50/<0.5	<0.50/<0.5	<0.50/<0.5	<1.5/<0.5
MW-11	10/17-18/02	97.32	NP	11.43	0.00	85.89	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00
MW-11	01/21/03	97.32	NP	11.29	0.00	86.03	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00
MW-11	04/23-24/03	97.32	NP	11.09	0.00	86.23	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00

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WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW-11	06/30-07/01/03	97.32	NP	11.39	0.00	85.93	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00
MW-11	10/01-02/03	97.32	NP	12.10	0.00	85.22	<250	<250	<50	<0.5	<0.5	<0.5	<1.5
MW-11	01/21-23/04	97.32	NP	11.69	0.00	85.63	<250	<250	<50	<0.5	<0.5	<0.5	<1.5
MW-11	04/29-30/04	97.32	NP	11.41	0.00	85.91	<250	<250	<50	<0.5	<0.5	<0.5	<1.5
MW-11	07/15-16/04	97.32	NP	11.56	0.00	85.76	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00
MW-11	08/03/04	97.32	NP	11.65	0.00	85.67	NOT SAMPLED	--	--	--	--	--	--
MW-11	10/28-11/01/04	97.32	NP	11.73	0.00	85.59	<78	<98	<50	<0.5	<0.5	<0.5	<1.5
MW-11	01/24-31/05	97.32	NP	11.35	0.00	85.97	NOT SAMPLED	--	--	--	--	--	--
MW-11	04/18-21/05	97.32	NP	11.41	0.00	85.91	NOT SAMPLED	--	--	--	--	--	--
MW-11	07/27-28/05	97.32	NP	11.44	0.00	85.88	NOT SAMPLED	--	--	--	--	--	--
MW-11	11/08-10/05	97.32	NP	11.52	0.00	85.80	NOT SAMPLED	--	--	--	--	--	--
MW-11	04/17/06	97.32	NP	11.29	0.00	86.03	NOT SAMPLED	--	--	--	--	--	--
MW-11	08/08/06	97.32	NP	11.26	0.00	86.06	NOT SAMPLED	--	--	--	--	--	--
MW-11	10/17/06	97.32	NP	11.39	0.00	85.93	NOT SAMPLED	--	--	--	--	--	--
MW-11	04/17/07	97.32	NP	11.29	0.00	86.03	NOT SAMPLED	--	--	--	--	--	--
MW-11	12/04/07	97.32	NOT SAMPLED, Obstruction in well at 10.98 feet bgs					--	--	--	--	--	--
MW-11	04/28/08	97.32	NOT SAMPLED, Obstruction in well at 11.01 feet bgs					--	--	--	--	--	--
MW-11	11/03/08	97.32	NOT SAMPLED, Obstruction in well at 11 feet bgs					--	--	--	--	--	--
MW-12	10/17-18/02	113.36	NP	12.22	0.00	101.14	<250	<500	<50.0	0.516/<1.00	0.869/<1.00	<1.00	<1.00/<2.00
MW-12	01/21/03	113.36	NP	11.72	0.00	101.64	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00
MW-12	04/23-24/03	113.36	NP	11.04	0.00	102.32	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00
MW-12	06/30-07/01/03	113.36	NP	11.32	0.00	102.04	1,690	<500	1,040	2.91	1.05	10.0	26.5
MW-12	10/01-02/03	113.36	NP	12.12	0.00	101.24	470	<250	69	1.2	<0.5	<0.5	<1.5
MW-12	01/21-23/04	113.36	NP	10.02	0.00	103.34	1,500	5,700	<50	<0.5	<0.5	<0.5	<1.5
MW-12	04/29-30/04	113.36	NP	10.59	0.00	102.77	260	440	<50	<0.5	<0.5	<0.5	<1.5
MW-12	07/15-16/04	113.36	NP	11.14	0.00	102.22	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00
MW-12	07/19/04	113.36	NM	NM	--	--	<800 ¹	<1,000 ¹	<50	<0.5	<0.5	<0.5	<1.5
MW-12	08/03/04	113.36	NP	12.55	0.00	100.81	NOT SAMPLED	--	--	--	--	--	--
MW-12	10/28-11/01/04	113.36	NP	12.03	0.00	101.33	<250	<250	<50	<0.5	<0.5	<0.5	<1.5
MW-12	01/24-31/05	113.36	NP	12.22	0.00	101.14	NOT SAMPLED	--	--	--	--	--	--
MW-12	04/18-21/05	113.36	NP	12.27	0.00	101.09	NOT SAMPLED	--	--	--	--	--	--

TABLE 1
GROUNDWATER MONITORING DATA AND HYDROCARBON CONSTITUENT RESULTS

*Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	
MW-12	07/27-28/05	113.36	NP	12.31	0.00	101.05	NOT SAMPLED	--	--	--	--	--	--	
MW-12	11/08-10/05	113.36	NP	12.29	0.00	101.07	NOT SAMPLED	--	--	--	--	--	--	
MW-12	02/22/06	113.36	NP	10.70	0.00	102.66	NOT SAMPLED	--	--	--	--	--	--	
MW-12	04/17/06	113.36	NP	11.53	0.00	101.83	NOT SAMPLED	--	--	--	--	--	--	
MW-12	10/17/06	113.36	NP	12.60	0.00	100.76	NOT SAMPLED	--	--	--	--	--	--	
MW-12	04/17/07	113.36	NP	12.14	0.00	101.22	NOT SAMPLED	--	--	--	--	--	--	
MW-12	12/04/07	113.36	NP	12.38	0.00	100.98	NOT SAMPLED	--	--	--	--	--	--	
MW-12	04/28/08	113.36	NP	12.05 ²	0.00	101.31	NOT SAMPLED	--	--	--	--	--	--	
MW-12	11/03/08	113.36	NP	12.16	0.00	101.20	NOT SAMPLED	--	--	--	--	--	--	
MW-13	10/17-18/02	114.80	NP	19.31	0.00	95.49	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
MW-13	01/21/03	114.80	NP	19.01	0.00	95.79	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
MW-13	04/23-24/03	114.80	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
MW-13	06/30-07/01/03	114.80	NP	18.72	0.00	96.08	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
MW-13	10/01-02/03	114.80	NP	19.32	0.00	95.48	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
MW-13	01/21-23/04	114.80	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
MW-13	04/29-30/04	114.80	NP	18.72	0.00	96.08	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
MW-13	07/15-16/04	114.80	NP	19.12	0.00	95.68	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
MW-13	08/03/04	114.80	NP	19.26	0.00	95.54	NOT SAMPLED	--	--	--	--	--	--	
MW-13	10/28-11/01/04	114.80	NP	19.37	0.00	95.43	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
MW-13	01/24-31/05	114.80	NP	19.19	0.00	95.61	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
MW-13	04/18-21/05	114.80	NP	18.97	0.00	95.83	NOT SAMPLED	--	--	--	--	--	--	
MW-13	07/27-28/05	114.80	NP	19.06	0.00	95.74	NOT SAMPLED	--	--	--	--	--	--	
MW-13	11/08-10/05	114.80	NP	19.40	0.00	95.40	NOT SAMPLED	--	--	--	--	--	--	
MW-13	02/22/06	114.80	NP	18.03	0.00	96.77	NOT SAMPLED	--	--	--	--	--	--	
MW-13	04/17/06	114.80	NP	19.45	0.00	95.35	NOT SAMPLED	--	--	--	--	--	--	
MW-13	10/17/06	114.80	NP	19.28	0.00	95.52	NOT SAMPLED	--	--	--	--	--	--	
MW-13	04/17/07	114.80	NP	19.62	0.00	95.18	NOT SAMPLED	--	--	--	--	--	--	
MW-13	12/04/07	114.80	NP	19.53	0.00	95.27	NOT SAMPLED	--	--	--	--	--	--	
MW-13	04/28/08	114.80	NP	19.25 ²	0.00	95.55	NOT SAMPLED	--	--	--	--	--	--	
MW-13	11/03/08	114.80	NP	19.08	0.00	95.72	NOT SAMPLED	--	--	--	--	--	--	
MW-14	11/14/02	101.64	NP	11.88	0.00	89.76	4,710	<500	43,100	9,900	4,930	1,540	6,020	

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*Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	
MW-14	01/21/03	101.64	INACCESSIBLE - VEHICLE PARKED OVER WELL						--	--	--	--	--	--
MW-14	04/23-24/03	101.64	INACCESSIBLE - VEHICLE PARKED OVER WELL						--	--	--	--	--	--
MW-14	06/30-07/01/03	101.64	INACCESSIBLE - VEHICLE PARKED OVER WELL						--	--	--	--	--	--
MW-14	10/01-02/03	101.64	INACCESSIBLE - VEHICLE PARKED OVER WELL						--	--	--	--	--	--
MW-14	10/14/03	101.64	NM	NM	--	--	2,100	130	69,000	12,000	9,900	1,600	7,900	
MW-14	01/21-23/04	101.64	INACCESSIBLE - VEHICLE PARKED OVER WELL						--	--	--	--	--	--
MW-14	04/29-30/04	101.64	NP	11.12	0.00	90.52	1,500	<250	27,000	4,800	2,500	910	3,300	
MW-14	07/15-16/04	101.64	NP	11.44	0.00	90.20	836	<500	61,800	10,400	5,550	1,350	5,890	
MW-14	10/26-27/04	101.64	NM	NM	--	--	<800 ¹	<1,000 ¹	57,000	13,000	11,000	1,500	8,300	
MW-14	10/28-11/01/04	101.64	NP	11.94	0.00	89.70	NOT SAMPLED		--	--	--	--	--	
MW-14	01/24-31/05	101.64	NP	11.37	0.00	90.27	480	<250	24,000	4,400	2,300	760	3,300	
MW-14	04/18-21/05	101.64	NP	11.19	0.00	90.45	1,500	<250	23,000	5,000	2,500	860	3,700	
MW-14	07/27-28/05	101.56	NP	11.36	0.00	90.20	2,300	<250	24,000	5,000	2,200	760	3,300	
MW-14	11/08-10/05	101.56	NP	11.82	0.00	89.74	2,600	<520	37,000	8,900	4,600	1,100	4,900	
MW-14	04/17/06	101.56	NP	11.26	0.00	90.30	1,900	<100	40,000	4,400	3,300	1,300	7,200	
MW-14	08/08/06	101.56	NP	13.10	0.00	88.46	6,800	<1,000 ¹	52,000	4,200	3,900	1,500	8,600	
MW-14	10/17/06	101.56	NP	13.65	0.00	87.91	NOT SAMPLED		--	--	--	--	--	
MW-14	04/17/07	101.56	NP	15.54	0.00	86.02	1,600	<100	11,000	920	120	590	1,300	
MW-14	12/04/07	101.56	NP	17.99	0.00	83.57	3,400	<470	3,300	48	5.6	200	16	
MW-14	04/28/08	101.56	NP	16.92 ²	0.00	84.64	1,400	<99	1,200	61	4	140	21	
MW-14	11/04/08	101.56	NP	13.66	0.00	87.90	2,900	<130	8,400	38	3	44	6	
MW-15	11/14/02	99.03	NP	9.44	0.00	89.59	780	<500	3,280	1,640	5.23	5.06	<10.0	
MW-15	01/21/03	99.03	NP	9.29	0.00	89.74	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00	
MW-15	04/23-24/03	99.03	INACCESSIBLE - VEHICLE PARKED OVER WELL						--	--	--	--	--	
MW-15	06/30-07/01/03	99.03	INACCESSIBLE - VEHICLE PARKED OVER WELL						--	--	--	--	--	
MW-15	10/01-02/03	99.03	NP	9.72	0.00	89.31	410	<250	810	1,700	60	48	110	
MW-15	01/21-23/04	99.03	NP	8.94	0.00	90.09	<250	<250	<50	<0.5	<0.5	<0.5	<1.5	
MW-15	04/29-30/04	99.03	NP	8.19	0.00	90.84	700	390	<50	<0.5	<0.5	<0.5	<1.5	
MW-15	07/15-16/04	99.03	INACCESSIBLE - VEHICLE PARKED OVER WELL						--	--	--	--	--	
MW-15	08/03/04	99.03	NP	13.82	0.00	85.21	NOT SAMPLED		--	--	--	--	--	
MW-15	10/26-27/04	99.03	NM	NM	--	--	<800 ¹	<1,000 ¹	1,700	230	99	99	260	

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*Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	
MW-15	10/28-11/01/04	99.03	NP	9.65	0.00	89.38	NOT SAMPLED	--	--	--	--	--	--	
MW-15	01/24-31/05	99.03	NP	9.00	0.00	90.03	<250	<250	<50	<0.5	<0.5	<0.5	<1.5	
MW-15	04/18-21/05	99.03	NP	8.98	0.00	90.05	<250	<250	<50	<0.5	<0.5	<0.5	<1.5	
MW-15	07/27-28/05	99.03	NP	9.31	0.00	89.72	NOT SAMPLED	--	--	--	--	--	--	
MW-15	11/08-10/05	99.03	NP	9.26	0.00	89.77	NOT SAMPLED	--	--	--	--	--	--	
MW-15	02/22/06	99.03	NP	8.21	0.00	90.82	NOT SAMPLED	--	--	--	--	--	--	
MW-15	04/17/06	99.03	NP	8.67	0.00	90.36	NOT SAMPLED	--	--	--	--	--	--	
MW-15	10/18/06	99.03	NP	11.12	0.00	87.91	NOT SAMPLED	--	--	--	--	--	--	
MW-15	04/17/07	99.03	NP	13.81	0.00	85.22	<82	<100	<50	<0.5	<0.5	<0.5	<1.5	
MW-15	12/04/07	99.03	NP	16.46	0.00	82.57	<76	<95	<50	0.9	<0.5	<0.5	<1.5	
MW-15	04/28/08	99.03	NP	14.68 ²	0.00	84.35	NOT SAMPLED	--	--	--	--	--	--	
MW-15 ⁴	12/11/08	99.03	NP	11.35	0.00	87.68	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	
MW-16	11/14/02	101.83	NP	12.36	0.00	89.47	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00	
MW-16	01/21/03	101.83	NP	11.88	0.00	89.95	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00	
MW-16	04/23-24/03	101.83	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
MW-16	06/30-07/01/03	101.83	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
MW-16	10/01-02/03	101.83	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
MW-16	10/14/03	101.83	NM	NM	--	--	<160	<200	740	26	1	3.8	3.6	
MW-16	01/21-23/04	101.83	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
MW-16	04/29-30/04	101.83	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
MW-16	05/03/04	101.83	NP	11.53	0.00	90.30	<75	<94	150	2.1	<0.5	1.7	<1.5	
MW-16	07/15-16/04	101.83	NP	11.89	0.00	89.94	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00	
MW-16	08/03/04	101.83	NP	12.03	0.00	89.80	NOT SAMPLED	--	--	--	--	--	--	
MW-16	10/26-27/04	101.83	NM	NM	--	--	<800 ¹	<1,000 ¹	220	9.1	1.1	5.7	2.3	
MW-16	10/28-11/01/04	101.83	NP	12.42	0.00	89.41	NOT SAMPLED	--	--	--	--	--	--	
MW-16	01/24-31/05	101.83	NP	11.91	0.00	89.92	<250	<250	210	8.4	1	6.0	3.2	
MW-16	04/18-21/05	101.83	NP	11.69	0.00	90.14	<250	<250	<50	<0.5	<0.5	<0.5	<1.5	
MW-16	07/27-28/05	101.75	NP	11.81	0.00	89.94	<250	<250	<50	<0.5	<0.5	<0.5	<1.5	
MW-16	11/08-10/05	101.75	NP	12.36	0.00	89.39	<79	<99	<48	0.9	<0.5	0.7	<1.5	
MW-16	04/17/06	101.75	NP	11.59	0.00	90.16	<81	100	<48	<0.5	<0.5	<0.5	<1.5	
MW-16	08/08/06	101.75	NP	13.33	0.00	88.42	NOT SAMPLED	--	--	--	--	--	--	

TABLE 1
GROUNDWATER MONITORING DATA AND HYDROCARBON CONSTITUENT RESULTS

*Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	
MW-16	10/17/06	101.75	NP	14.08	0.00	87.67	NOT SAMPLED	--	--	--	--	--	--	
MW-16	04/17/07	101.75	NP	16.24	0.00	85.51	NOT SAMPLED	--	--	--	--	--	--	
MW-16	12/04/07	101.75	NP	18.33	0.00	83.42	NOT SAMPLED	--	--	--	--	--	--	
MW-16	04/28-05/02/08	101.75	NP	17.49 ²	0.00	84.26	<79	<99	<50	<0.5	<0.5	<0.5	<0.5	
MW-16	11/06/08	101.75	NP	14.13	0.00	87.62	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	
MW-17	11/14/02	99.29	NP	10.00	0.00	89.29	<250	<500	2,780	569	31.0	91.1	250	
MW-17	01/21/03	99.29	NP	9.62	0.00	89.67	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00	
MW-17	04/23-24/03	99.29	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
MW-17	06/30-07/01/03	99.29	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
MW-17	10/01-02/03	99.29	NP	10.30	0.00	88.99	<250	<250	1,100	420	69	38	130	
MW-17	01/21-23/04	99.29	NP	9.48	0.00	89.81	<250	<250	<50	1.6	<0.5	<0.5	<1.5	
MW-17	04/29-30/04	99.29	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
MW-17	05/03/04	99.29	NP	9.31	0.00	89.98	190	<95	2,300	370	20	89	100	
MW-17	07/15-16/04	99.29	NP	9.72	0.00	89.57	<250	<500	1,310	171	8.98	43.1	83.5	
MW-17	08/03/04	99.29	NP	9.90	0.00	89.39	NOT SAMPLED	--	--	--	--	--	--	
MW-17	10/28-11/01/04	99.29	NP	10.11	0.00	89.18	<400	<500	5,600	1,900	280	230	700	
MW-17	01/24-31/05	99.29	NP	9.42	0.00	89.87	<250	<250	310	160	4.9	17	27	
MW-17	02/17/05	99.29	NP	9.37	0.00	89.92	<76	<95	1,000	320	12	41	52	
MW-17	04/18-21/05	99.29	NP	9.32	0.00	89.97	<250	750	<50	18	0.6	<0.5	<3.0	
MW-17	07/27-28/05	99.29	NP	9.64	0.00	89.65	<250	<250	730	230	9.3	17	26	
MW-17	11/08-10/05	99.29	NP	9.98	0.00	89.31	<76	<95	110	65	2.0	1.5	4.9	
MW-17	04/17-19/06	99.29	NP	9.26	0.00	90.03	<79	<98	<48	0.7	<0.5	<0.5	<1.5	
MW-17	08/08/06	99.29	NP	10.98	0.00	88.31	--	--	1,200	400	41	39	130	
MW-17	10/17/06	99.29	NP	11.65	0.00	87.64	NOT SAMPLED	--	--	--	--	--	--	
MW-17	04/17/07	99.29	NP	14.21	0.00	85.08	490	<100	4,500	1,100	26	300	350	
MW-17	12/04/07	99.29	NP	17.02	0.00	82.27	95	<96	690	42	2.4	58	55	
MW-17	04/28-05/01/08	99.29	NP	15.24 ²	0.00	84.05	<82	<100	190	32	<0.5	19	0.6	
MW-17	11/06/08	99.29	NP	11.73	0.00	87.56	160	<70	67	22	<0.5	<0.5	<0.5	
MW-17	11/06/08	Duplicate (DUP-2-110608)					150	<66	110	30	0.6	<0.5	<0.5	
MW-18	04/29-30/04	101.52	NP	10.95	0.00	90.57	1,700	<250	76,000	9,200	11,000	1,400	8,400	
MW-18	07/15/04	101.52	NP	11.36	0.00	90.16	NOT SAMPLED	--	--	--	--	--	--	

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WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW-18	08/03/04	101.52	NP	11.66	0.00	89.86	NOT SAMPLED	--	--	--	--	--	--
MW-18	10/28-11/01/04	101.52	NP	11.72	0.00	89.80	230	<97	42,000	4,700	5,400	860	4,300
MW-18	01/24-31/05	101.52	NP	11.10	0.00	90.42	270	<250	24,000	2,800	3,400	600	3,100
MW-18	04/18-21/05	101.52	NP	10.91	0.00	90.61	1,500	<250	20,000	2,500	3,200	540	2,900
MW-18	07/27-28/05	101.52	NP	11.22	0.00	90.30	NOT SAMPLED	--	--	--	--	--	--
MW-18	11/08-10/05	101.52	NP	11.53	0.00	89.99	NOT SAMPLED	--	--	--	--	--	--
MW-18	02/22/06	101.52	NP	9.83	0.00	91.69	NOT SAMPLED	--	--	--	--	--	--
MW-18	04/17/06	101.52	NP	10.93	0.00	90.59	NOT SAMPLED	--	--	--	--	--	--
MW-18	08/08/06	101.52	NP	12.65	0.00	88.87	--	--	1,100	210	74	43	130
MW-18	10/17/06	101.52	NP	13.29	0.00	88.23	NOT SAMPLED	--	--	--	--	--	--
MW-18	04/17/07	101.52	NP	15.51	0.00	86.01	NOT SAMPLED	--	--	--	--	--	--
MW-18	12/04/07	101.52	NP	20.30	0.00	81.22	NOT SAMPLED	--	--	--	--	--	--
MW-18	04/28-29/08	101.52	NP	16.76 ²	0.00	84.76	190	<98	200	140	<0.5	<0.5	<0.5
MW-18 ⁴	12/11/08	101.52	NP	13.45	0.00	88.07	1,900	<67	790	32	0.9	1	1
MW-19	04/29-30/04	101.18	NP	10.63	0.00	90.55	680	<250	18,000	1,700	1,700	470	2,400
MW-19	07/15-16/04	101.18	NP	11.07	0.00	90.11	NOT SAMPLED	--	--	--	--	--	--
MW-19	08/03/04	101.18	NP	11.31	0.00	89.87	NOT SAMPLED	--	--	--	--	--	--
MW-19	10/28-11/01/04	101.18	NP	11.41	0.00	89.77	270	<100	21,000	1,900	1,400	880	3,500
MW-19	01/24-31/05	101.18	NP	10.78	0.00	90.40	280	<250	25,000	1,700	1,500	940	3,700
MW-19	04/18-21/05	101.18	NP	10.61	0.00	90.57	1,200	<250	23,000	1,900	1,400	1,000	3,800
MW-19	07/27-28/05	101.18	NP	10.92	0.00	90.26	NOT SAMPLED	--	--	--	--	--	--
MW-19	11/08-10/05	101.18	NP	11.25	0.00	89.93	NOT SAMPLED	--	--	--	--	--	--
MW-19	02/22/06	101.18	NP	9.55	0.00	91.63	NOT SAMPLED	--	--	--	--	--	--
MW-19	04/17/06	101.18	NP	10.61	0.00	90.57	NOT SAMPLED	--	--	--	--	--	--
MW-19	10/17/06	101.18	NP	12.93	0.00	88.25	NOT SAMPLED	--	--	--	--	--	--
MW-19	04/17/07	101.18	NP	15.27	0.00	85.91	<75	<94	130	3.2	<0.5	<0.5	<1.5
MW-19	12/04/07	101.18	NP	19.80	0.00	81.38	<78	<98	<50	3.0	<0.5	<0.5	<1.5
MW-19	04/28-29/08	101.18	NP	16.45 ²	0.00	84.73	<78	<98	90	2	<0.5	<0.5	<0.5
MW-19	11/03/08	101.18	NP	13.14	0.00	88.04	NOT SAMPLED	--	--	--	--	--	--
MW-20	10/28-11/01/04	105.64	NP	8.91	0.00	96.73	<80	220	<50	<0.5	<0.5	<0.5	<0.5
MW-20	01/24-31/05	105.64	NP	5.94	0.00	99.70	NOT SAMPLED	--	--	--	--	--	--

TABLE 1
GROUNDWATER MONITORING DATA AND HYDROCARBON CONSTITUENT RESULTS

*Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW-20	04/18-21/05	105.64	NP	6.39	0.00	99.25	NOT SAMPLED	--	--	--	--	--	--
MW-20	07/27-28/05	105.64	NP	7.88	0.00	97.76	NOT SAMPLED	--	--	--	--	--	--
MW-20	11/08-10/05	105.64	NP	8.08	0.00	97.56	NOT SAMPLED	--	--	--	--	--	--
MW-20	02/22/06	105.64	NP	6.56	0.00	99.08	NOT SAMPLED	--	--	--	--	--	--
MW-20	04/17/06	105.64	NP	6.64	0.00	99.00	NOT SAMPLED	--	--	--	--	--	--
MW-20	08/08/06	105.64	NP	8.00	0.00	97.64	NOT SAMPLED	--	--	--	--	--	--
MW-20	10/17/06	105.64	NP	8.32	0.00	97.32	NOT SAMPLED	--	--	--	--	--	--
MW-20	04/17/07	105.64	NP	6.93	0.00	98.71	NOT SAMPLED	--	--	--	--	--	--
MW-20	12/04/07	105.64	NP	5.46	0.00	100.18	NOT SAMPLED	--	--	--	--	--	--
MW-20	04/28/08	105.64	NP	7.07 ²	0.00	98.57	NOT SAMPLED	--	--	--	--	--	--
MW-20	11/03/08	105.64	NP	8.10	0.00	97.54	NOT SAMPLED	--	--	--	--	--	--
MW-21	08/03/04	94.76	NP	25.89	0.00	68.87	NOT SAMPLED	--	--	--	--	--	--
MW-21	08/12/04	94.76	NP	25.89	0.00	68.87	140	160	120	360	<0.5	<0.5	3.1
MW-21	10/28-11/01/04	94.76	NP	25.95	0.00	68.81	<800 ¹	<1,000 ¹	31,000	5,200	730	1,300	4,500
MW-21	01/24-31/05	94.76	NP	25.85	0.00	68.91	<250	<250	130	230	0.6	<0.5	4.3
MW-21	02/10/05	94.76	NP	25.80	0.00	68.96	NOT SAMPLED	--	--	--	--	--	--
MW-21	02/17/05	94.76	NP	25.82	0.00	68.94	<85	<110	130	280	<0.5	<0.5	<1.5
MW-21	04/18-21/05	94.76	NP	25.94	0.00	68.82	<250	<250	110	230	<0.5	<0.5	3.9
MW-21	07/27-28/05	94.76	NP	25.75	0.00	69.01	<250	<250	79	220	<0.5	<0.5	<3.0
MW-21	11/08-10/05	94.76	NP	25.46	0.00	69.30	<78	<97	110	250	<0.5	<0.5	<1.5
MW-21	02/22/06	94.76	NP	25.58	0.00	69.18	NOT SAMPLED	--	--	--	--	--	--
MW-21	04/17/06	94.76	NP	25.62	0.00	69.14	<79	<99	<48	84	<0.5	<0.5	<1.5
MW-21	08/09/06	94.76	NP	25.38	0.00	69.38	--	--	130	170	<0.5	<0.5	1.6
MW-21	10/17/06	94.76	NP	25.81	0.00	68.95	NOT SAMPLED	--	--	--	--	--	--
MW-21	04/17-18/07	94.76	NP	25.34	0.00	69.42	<81	<100	57	130	0.6	<0.5	<1.5
MW-21	12/04-05/07	94.76	NP	26.36	0.00	68.40	<76	<96	61	140	<0.5	<0.5	<1.5
MW-21	04/28-05/01/08	94.76	NP	26.42 ²	0.00	68.34	<78	<97	83	160	<0.5	<0.5	<0.5
MW-21	11/06/08	94.76	NP	26.23	0.00	68.53	<30	<70	79	120	<0.5	<0.5	<0.5
MW-22	NOT MONITORED/SAMPLED. REPLACED BY WELL DPE-8. SEE DPE-8 FOR MW-22 DATA.												
MW-23	10/26-27/04	107.82	NP	9.59	0.00	98.23	42,000	<5,000 ¹	57,000	810	10,000	2,200	12,200
MW-23	10/28/04	107.82	NP	9.64	0.00	98.18	NOT SAMPLED	--	--	--	--	--	--

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631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW-23	10/28-11/01/04	107.82	NP	13.50	0.00	94.32	NOT SAMPLED	--	--	--	--	--	--
MW-23	01/24-31/05	107.82	NP	5.32	0.00	102.50	13,000	<4,100 ¹	19,000	190	210	710	3,600
MW-23	04/18-21/05	107.82	NP	8.78	0.00	99.04	2,400	<250	54,000	630	7,000	1,700	9,200
MW-23	07/27-28/05	107.82	NP	9.71	0.00	98.11	NOT SAMPLED	--	--	--	--	--	--
MW-23	11/08-10/05	107.82	NP	9.69	0.00	98.13	NOT SAMPLED	--	--	--	--	--	--
MW-23	04/17/06	107.82	NP	9.91	0.00	97.91	NOT SAMPLED	--	--	--	--	--	--
MW-23	04/18/07	107.82	NP	9.17	0.00	98.65	7,100	<530 ¹	3,500	27	30	31	310
MW-23	12/06/07	107.82	NP	7.85	0.00	99.97	7,200	<940 ¹	310	<0.5	0.6	16	46
MW-23	04/29/08	107.82	NP	8.90 ²	0.00	98.92	NOT SAMPLED	--	--	--	--	--	--
MW-23	11/03/08	107.82	NP	9.44	0.00	98.38	NOT SAMPLED	--	--	--	--	--	--
MW-24	10/26-27/04	107.95	NP	6.19	0.00	101.76	<800	<1,000 ¹	500	<0.5	<0.5	<0.5	3.0
MW-24	10/28/04	107.95	NP	6.41	0.00	101.54	NOT SAMPLED	--	--	--	--	--	--
MW-24	10/28-11/01/04	107.95	NP	14.20	0.00	93.75	NOT SAMPLED	--	--	--	--	--	--
MW-24	01/24-31/05	107.95	NP	5.58	0.00	102.37	<250	<250	<50	<0.5	0.6	<0.5	1.6
MW-24	04/18-21/05	107.95	NP	4.76	0.00	103.19	NOT SAMPLED	--	--	--	--	--	--
MW-24	07/27-28/05	107.95	NP	6.68	0.00	101.27	NOT SAMPLED	--	--	--	--	--	--
MW-24	11/08-10/05	107.95	NP	4.84	0.00	103.11	NOT SAMPLED	--	--	--	--	--	--
MW-24	02/22/06	107.95	NP	5.81	0.00	102.14	NOT SAMPLED	--	--	--	--	--	--
MW-24	04/17/06	107.95	NP	5.55	0.00	102.40	NOT SAMPLED	--	--	--	--	--	--
MW-24	04/17/07	107.95	NP	5.63	0.00	102.32	NOT SAMPLED	--	--	--	--	--	--
MW-24	12/04/07	107.95	NP	4.61	0.00	103.34	NOT SAMPLED	--	--	--	--	--	--
MW-24	04/28/08	107.95	NP	4.96 ²	0.00	102.99	NOT SAMPLED	--	--	--	--	--	--
MW-24	11/03/08	107.95	NP	4.65	0.00	103.30	NOT SAMPLED	--	--	--	--	--	--
MW-25	10/26-27/04	101.96	NP	12.31	0.00	89.65	260	<99	11,000	52	110	340	1,850
MW-25	10/28-11/01/04	101.96	NP	12.36	0.00	89.60	NOT SAMPLED	--	--	--	--	--	--
MW-25	01/24-31/05	101.96	NP	11.81	0.00	90.15	440	<250	7,400	6.8	42	160	1,100
MW-25	04/18-21/05	101.96	NP	11.63	0.00	90.33	2,800	<250	22,000	17	300	750	3,900
MW-25	07/27/05	101.96	NP	11.73	0.00	90.23	2,400	<250	22,000	<20 ¹	210	630	3,100
MW-25	11/08-10/05	101.96	NP	12.23	0.00	89.73	870	<100	14,000	<20 ¹	59	450	1,600
MW-25	02/22/06	101.96	NP	10.50	0.00	91.46	NOT SAMPLED	--	--	--	--	--	--
MW-25	04/17/06	101.96	NP	11.65	0.00	90.31	520	<100	780	<2.0	2.9	14	49

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MW-25	08/08/06	101.96	NP	13.39	0.00	88.57	1,100	210	6,300	19	31	240	650	
MW-25	10/17/06	101.96	NP	14.06	0.00	87.90	NOT SAMPLED	--	--	--	--	--	--	
MW-25	04/17/07	101.96	NP	16.00	0.00	85.96	1,200	<110	1,900	7.0	13	55	97	
MW-25	12/04/07	101.96	NP	18.05	0.00	83.91	2,000	<100	2,400	10	2.9	73	47	
MW-25	04/28/08	101.96	NP	17.34 ²	0.00	84.62	120	<96	250	1	0.7	11	0.9	
MW-25	11/04/08	101.96	NP	14.08	0.00	87.88	33	<72	150	2	<0.5	<0.5	<0.5	
MW-26	10/28-11/01/04	100.47	NP	11.18	0.00	89.29	760	<200	57,000	8,300/9,100	4,300/4,400	1,600/1,500	8,700/9,100	
MW-26	01/24-31/05	100.47	NP	10.59	0.00	89.88	<250	<250	3,100	310	190	54	510	
MW-26	02/17/05	100.47	NP	10.56	0.00	89.91	310	<95	27,000	6,800	1,900	990	4,800	
MW-26	04/18-21/05	100.47	NP	10.39	0.00	90.08	<250	<250	3,500	730	320	100	660	
MW-26	07/27/05	100.47	NP	10.55	0.00	89.92	270	<250	5,100	1,200	370	130	880	
MW-26	11/08-10/05	100.47	NP	11.02	0.00	89.45	1,200	<94	15,000	5,700	850	590	2,400	
MW-26	02/22/06	100.47	NP	9.32	0.00	91.15	NOT SAMPLED	--	--	--	--	--	--	
MW-26	04/17/06	100.47	NP	10.35	0.00	90.12	<80	<100	<48	<0.5	<0.5	<0.5	<1.5	
MW-26	08/08/06	100.47	NP	12.11	0.00	88.36	240	150	4,900	1,200	310	160	750	
MW-26	10/17/06	100.47	NP	12.80	0.00	87.67	NOT SAMPLED	--	--	--	--	--	--	
MW-26	04/17-18/07	100.47	NP	15.09	0.00	85.38	440	<100	4,500	730	63	230	660	
MW-26	12/04-05/07	100.47	NP	18.05	0.00	82.42	400	<130	3,400	1,000	43	200	420	
MW-26	04/28-05/01/08	100.47	NP	16.31 ²	0.00	84.16	280	<95	130	9	<0.5	4	<0.5	
MW-26	05/01/08		Duplicate (DUP-7-050108)					630	<99	140	10	<0.5	5	<0.5
MW-26	11/06/08	100.47	NP	12.82	0.00	87.65	2,500	<66	1,100	450	1	110	3	
MW-27	01/24-26/05	97.26	NP	29.81	0.00	67.45	<250	<250	<50	<0.5	<0.5	<0.5	<1.5	
MW-27	02/10/05	97.26	NP	29.76	0.00	67.50	NOT SAMPLED	--	--	--	--	--	--	
MW-27	04/18-21/05	97.26	NP	29.85	0.00	67.41	NOT SAMPLED	--	--	--	--	--	--	
MW-27	07/28/05	97.26	NP	29.86	0.00	67.40	<250	<250	<50	<0.5	<0.5	<0.5	<1.5	
MW-27	11/08-10/05	97.26	NP	29.91	0.00	67.35	NOT SAMPLED	--	--	--	--	--	--	
MW-27	04/17/06	97.26	NP	29.69	0.00	67.57	NOT SAMPLED	--	--	--	--	--	--	
MW-27	10/18/06	97.26	NP	29.90	0.00	67.36	NOT SAMPLED	--	--	--	--	--	--	
MW-28	01/24-26/05	87.78	NP	21.18	0.00	66.60	<250	<250	<50	<0.5	<0.5	<0.5	<1.5	
MW-28	02/10/05	87.78	NP	21.17	0.00	66.61	<79	<98	<48	<0.5	<0.5	<0.5	<1.5	
MW-28	04/18-21/05	87.78	NP	21.22	0.00	66.56	<250	<250	<50	<0.5	<0.5	<0.5	<1.5	

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MW-28	07/27-28/05	87.78	NP	21.26	0.00	66.52	<250	<250	<50	<0.5	<0.5	<0.5	<1.5
MW-28	11/08-10/05	87.78	NP	21.32	0.00	66.46	NOT SAMPLED	--	--	--	--	--	--
MW-28	04/17/06	87.78	NP	21.19	0.00	66.59	NOT SAMPLED	--	--	--	--	--	--
MW-28	10/18/06	87.78	NP	21.28	0.00	66.50	NOT SAMPLED	--	--	--	--	--	--
MW-29	01/24-26/05	80.88	NP	15.14	0.00	65.74	<250	<250	<50	<0.5	<0.5	<0.5	<1.5
MW-29	04/18-21/05	80.88	NP	14.31	0.00	66.57	NOT SAMPLED	--	--	--	--	--	--
MW-29	07/27-28/05	80.88	NP	14.79	0.00	66.09	NOT SAMPLED	--	--	--	--	--	--
MW-29	11/08-10/05	80.88	NP	14.70	0.00	66.18	NOT SAMPLED	--	--	--	--	--	--
MW-29	04/17/06	80.88	NP	14.60	0.00	66.28	NOT SAMPLED	--	--	--	--	--	--
MW-29	10/18/06	80.88	NP	15.16	0.00	65.72	NOT SAMPLED	--	--	--	--	--	--
MW-30	02/10/05	91.81	NP	24.70	0.00	67.11	<77	<96	<48	4.1	<0.5	<0.5	<1.5
MW-30	04/18-21/05	91.81	NP	24.76	0.00	67.05	<250	<250	<50	<0.5	<0.5	<0.5	<1.5
MW-30	07/27-28/05	91.81	NP	24.72	0.00	67.09	<250	<250	<50	<0.5	<0.5	<0.5	<1.5
MW-30	11/08-10/05	91.81	NP	24.82	0.00	66.99	<83	<100	<48	<0.5	<0.5	<0.5	<1.5
MW-30	04/17/06	91.81	NP	24.68	0.00	67.13	<80	<100	<50	<0.5	<0.5	<0.5	<1.5
MW-30	10/17/06	91.81	NP	24.80	0.00	67.01	NOT SAMPLED	--	--	--	--	--	--
MW-30	04/17-18/07	91.81	NP	24.72	0.00	67.09	<76	<94	<50	<0.5	<0.5	<0.5	<1.5
MW-30	12/04-05/07	91.81	NP	24.84	0.00	66.97	<75	<94	<50	<0.5	<0.5	<0.5	<1.5
MW-30	04/28-30/08	91.81	NP	24.81	0.00	67.00	<77	<97	<50	<0.5	<0.5	<0.5	<0.5
MW-30	11/06/08	91.81	NP	24.85	0.00	66.96	<30	<71	<50	<0.5	<0.5	<0.5	<0.5
MW-30	11/06/08		Duplicate (DUP-1-110608)				<31	<71	<50	<0.5	<0.5	<0.5	<0.5
MW-31	02/10/05	87.22	NP	19.89	0.00	67.33	<77	<96	<48	<0.5	<0.5	<0.5	<1.5
MW-31	04/18-21/05	87.22	NP	20.02	0.00	67.20	<800 ¹	<1,000 ¹	<50	<0.5	<0.5	<0.5	<1.5
MW-31	07/27-28/05	87.22	NP	19.89	0.00	67.33	<250	<250	<50	<0.5	<0.5	<0.5	<1.5
MW-31	11/08-10/05	87.22	NP	20.12	0.00	67.10	NOT SAMPLED	--	--	--	--	--	--
MW-31	04/17/06	87.22	NP	19.94	0.00	67.28	NOT SAMPLED	--	--	--	--	--	--
MW-31	10/17/06	87.22	NP	20.14	0.00	67.08	NOT SAMPLED	--	--	--	--	--	--
MW-31	04/17-18/07	87.22	NP	19.78	0.00	67.44	<75	<94	<50	<0.5	<0.5	<0.5	<1.5
MW-31	12/04-05/07	87.22	NP	20.14	0.00	67.08	<75	<94	<50	<0.5	<0.5	<0.5	<1.5
MW-31	04/28-30/08	87.22	NP	20.06	0.00	67.16	<81	<100	<50	<0.5	<0.5	<0.5	<0.5
MW-31	11/04/08	87.22	NP	20.11	0.00	67.11	<29	<69	<50	<0.5	<0.5	<0.5	<0.5

TABLE 1
GROUNDWATER MONITORING DATA AND HYDROCARBON CONSTITUENT RESULTS

*Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW-32	07/27-28/05	101.09	NP	11.43	0.00	89.66	1,200	<250	17,000	2,300/2,100	540/470	630/560	2,600/2,500
MW-32	11/08-10/05	101.09	NP	11.81	0.00	89.28	<80	<100	580	200	29	5.4	130
MW-32	02/22/06	101.09	NP	10.15	0.00	90.94	NOT SAMPLED	--	--	--	--	--	--
MW-32	04/17/06	101.09	NP	11.12	0.00	89.97	<81	<100	70	47	1.9	4.0	8.7
MW-32	08/08/06	101.09	NP	12.86	0.00	88.23	400	140	4,000	1,500	130	210	730
MW-32	04/17-18/07	101.09	NP	15.97	0.00	85.12	2,600	<940 ¹	17,000	2,400	170	830	2,400
MW-32	12/04-05/07	101.09	NP	18.42	0.00	82.67	<79	<98	670	310	6.6	57	73
MW-32	04/29/08	101.09	NP	17.09 ²	0.00	84.00	<79	<98	95	77	<0.5	9	2
MW-32	11/04/08	101.09	NP	13.56	0.00	87.53	41	<71	130	36	<0.5	2	<0.5
MW-33	07/27-28/05	100.36	NP	28.33	0.00	72.03	630	<250	2,200	2,500/4,800	200/180	93/86	170/153
MW-33	11/08-10/05	100.36	NP	28.50	0.00	71.86	340	<100	1,900	4,800	180	110	170
MW-33	04/17/06	100.36	NP	27.95	0.00	72.41	250	<110	1,900	4,000	140	93	170
MW-33	08/09/06	100.36	NP	28.65	0.00	71.71	490	<98	3,000	4,100	220	180	290
MW-33	10/17/06	100.36	NP	28.96	0.00	71.40	NOT SAMPLED	--	--	--	--	--	--
MW-33	04/17-18/07	100.36	NP	29.65	0.00	70.71	400	<100	1,600	3,700	130	110	130
MW-33	12/04-05/07	100.36	NP	30.46	0.00	69.90	400	<94	1,200	3,300	110	76	86
MW-33	04/28/08	100.36	NP	30.46 ²	0.00	69.90	370	<100	1,300	2,400	86	75	76
MW-33	11/04/08	100.36	NP	29.62	0.00	70.74	270	<69	1,200	2,700	97	95	85
MW-34	11/28/05	94.35	NP	27.05	0.00	67.30	<84	<110	<48	<0.5	<0.5	<0.5	<0.5
MW-34	04/17/06	94.35	NP	26.97	0.00	67.38	<80	<100	<48	<0.5	<0.5	<0.5	<1.5
MW-34	10/17/06	94.35	NP	27.13	0.00	67.22	NOT SAMPLED	--	--	--	--	--	--
MW-34	04/17-18/07	94.35	NP	27.06	0.00	67.29	<81	<100	<50	<0.5	<0.5	<0.5	<1.5
MW-34	12/04-05/07	94.35	NP	27.22	0.00	67.13	<78	<98	60	<0.5	<0.5	<0.5	<1.5
MW-34	04/28-30/08	94.35	NP	27.15	0.00	67.20	<80	<100	<50	<0.5	<0.5	<0.5	<0.5
MW-34	11/06/08	94.35	NP	27.19	0.00	67.16	<31	<73	<50	<0.5	<0.5	<0.5	<0.5
MW-35	11/28/05	100.52	NP	30.54	0.00	69.98	280	180	250	30	<0.5	<0.5	1
MW-35	02/22/06	100.52	NP	30.32	0.00	70.20	NOT SAMPLED	--	--	--	--	--	--
MW-35	04/17/06	100.52	NP	30.41	0.00	70.11	270	<100	370	100	1.3	1.0	3.9
MW-35	08/09/06	100.52	NP	30.75	0.00	69.77	300	230	780	150	3.1	1.9	5.8
MW-35	10/18/06	100.52	NP	30.94	0.00	69.58	NOT SAMPLED	--	--	--	--	--	--
MW-35	04/17/07	100.52	NP	31.19	0.00	69.33	NOT SAMPLED	--	--	--	--	--	--

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WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	
MW-35	12/04/07	100.52	NP	31.89	0.00	68.63	NOT SAMPLED			--	--	--	--	
MW-35	04/28-05/01/08	100.52	NP	31.78 ²	0.00	68.74	180	<100	110	45	<0.5	<0.5	<0.5	
MW-35	11/05/08	100.52	NP	31.48	0.00	69.04	110	<67	180	150	<0.5	<0.5	<0.5	
DPE-1/VP-6	07/24/02	101.90	10.60	12.18	1.58	90.98	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	
DPE-1/VP-6	10/17-18/02	101.90	11.35	12.00	0.65	90.42	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	
DPE-1/VP-6	01/21/03	101.90	11.27	12.90	1.63	90.30	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	
DPE-1/VP-6	04/23-24/03	101.90	10.75	10.90	0.15	91.12	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	
DPE-1/VP-6	06/30-07/01/03	101.90	11.32	11.54	0.22	90.54	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	
DPE-1/VP-6	10/01-02/03	101.90	12.12	12.91	0.79	89.62	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	
DPE-1/VP-6	01/21-23/04	101.90	NOT MONITORED/SAMPLED DUE TO WELL OBSTRUCTION AT 2.41 FEET						--	--	--	--	--	
DPE-1/VP-6	04/29-30/04	101.84	11.20	11.25	0.05	90.63	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	
DPE-1/VP-6	07/15-16/04	101.84	11.67	11.68	0.01	90.17	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	
DPE-1/VP-6	08/03/04	101.84	NP	11.85	0.00	89.99	NOT SAMPLED			--	--	--	--	
DPE-1/VP-6	10/28-11/01/04	101.84	NP	11.99	0.00	89.85	180,000	<20,000 ¹	81,000	7,500	9,500	1,100	9,000	
DPE-1/VP-6	01/24-31/05	101.84	NP	11.37	0.00	90.47	21,000	<1,000 ¹	19,000	1,800	1,200	75	3,300	
DPE-1/VP-6	04/18-21/05	101.84	NP	11.19	0.00	90.65	280,000	<11,000 ¹	8,000	190	240	48	800	
DPE-1/VP-6	07/27-28/05	101.84	NP	11.50	0.00	90.34	NOT SAMPLED			--	--	--	--	
DPE-1/VP-6	08/02/05	101.84	11.53	11.57	0.04	90.30	NOT SAMPLED			--	--	--	--	
DPE-1/VP-6	08/09/05	101.84	11.59	11.60	0.01	90.24	NOT SAMPLED			--	--	--	--	
DPE-1/VP-6	11/08-10/05	101.84	NP	11.76	0.00	90.08	NOT SAMPLED			--	--	--	--	
DPE-1/VP-6	02/22/06	101.84	Sheen	10.02	0.00	91.82	NOT SAMPLED			--	--	--	--	
DPE-1/VP-6	04/17/06	101.84	NP	11.25	0.00	90.59	NOT SAMPLED			--	--	--	--	
DPE-1/VP-6	08/31/06	101.84	13.21	13.13	0.00	88.71	NOT SAMPLED			--	--	--	--	
DPE-1/VP-6	09/15/06	101.84	13.31	13.35	0.04	88.49	NOT SAMPLED			--	--	--	--	
DPE-1/VP-6	10/17/06	101.55	12.85	14.68	1.83	88.33	NOT SAMPLED			--	--	--	--	
DPE-1/VP-6	04/17-19/07	101.55	NP	15.63	0.00	85.92	5,600	<950 ¹	650	20	4.1	3.7	13	
DPE-1/VP-6	04/17-19/07		Duplicate sample					<1,500	<1,900 ¹	690	20	4.3	3.9	14
DPE-1/VP-6	12/04-05/07	101.55	NP	20.72	0.00	80.83	240	<100	550	380	4.7	32	15	
DPE-1/VP-6	04/28-29/08	101.63	NP	16.74	0.00	84.89	610	<200	260	430	1	1	2	
DPE-1/VP-6	04/29/08		Duplicate (DUP-4-042908)					490	<200	250	450	1	1	2
DPE-1/VP-6	11/03/08	101.63	NP	13.50	0.00	88.13	NOT SAMPLED			--	--	--	--	

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DPE-2	04/29-30/04	102.17	11.31	11.51	0.20	90.82	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--
DPE-2	07/15-16/04	102.17	NP	11.79	0.00	90.38	NOT SAMPLED					--	--
DPE-2	08/03/04	102.17	NP	12.17	0.00	90.00	NOT SAMPLED					--	--
DPE-2	10/28-11/01/04	102.17	NP	12.12	0.00	90.05	6,200	<1,000 ¹	48,000	2,500	3,000	940	5,400
DPE-2	01/24-31/05	102.17	NP	11.51	0.00	90.66	870	<250	2,200	70	79	13	140
DPE-2	04/18-21/05	102.17	NP	11.30	0.00	90.87	290	<250	2,000	210	170	42	220
DPE-2	07/27-28/05	102.17	NP	11.64	0.00	90.53	NOT SAMPLED					--	--
DPE-2	11/08-10/05	102.17	NP	12.02	0.00	90.15	NOT SAMPLED					--	--
DPE-2	02/22/06	102.17	10.06	10.98	0.92	91.93	NOT SAMPLED					--	--
DPE-2	02/27/06	102.17	10.20	11.09	0.89	91.79	NOT SAMPLED					--	--
DPE-2	04/17/06	102.17	11.25	11.71	0.46	90.83	NOT SAMPLED					--	--
DPE-2	07/31/06	102.17	12.76	12.80	0.04	89.40	NOT SAMPLED					--	--
DPE-2	08/19/06	102.17	13.33	13.45	0.12	88.82	NOT SAMPLED					--	--
DPE-2	09/15/06	102.43	13.69	13.73	0.04	88.73	NOT SAMPLED					--	--
DPE-2	09/29/06	102.43	13.83	13.86	0.03	88.59	NOT SAMPLED					--	--
DPE-2	10/17/06	102.43	13.91	13.92	0.01	88.52	NOT SAMPLED					--	--
DPE-2	10/24/06	102.43	14.20	14.50	0.30	88.17	NOT SAMPLED					--	--
DPE-2	04/17/07	102.43	NP	15.96	0.00	86.47	110,000	<9,500 ¹	27,000	<10	2.9	14	1,100
DPE-2	12/04-05/07	102.43	NP	21.52	0.00	80.91	5,300	<480	600	150	5.3	8.6	15
DPE-2	04/28-29/08	102.54	NP	17.20	0.00	85.34	8,100	<2,000 ¹	770	2	<0.5	<0.5	0.5
DPE-2	11/04/08	102.54	NP	14.06	0.00	88.48	3,000	<130	340	<0.5	<0.5	<0.5	<0.5
DPE-3	10/17/06	103.93	NP	14.49	0.00	89.44	NOT SAMPLED					--	--
DPE-3	10/26/06	103.93	NP	14.79	0.00	89.14	<80	<100	<48	<0.5	<0.5	<0.5	<0.5
DPE-3	04/17-19/07	103.93	NP	18.25	0.00	85.68	4,900	<2,000	87	<0.5	<0.5	<0.5	3.9
DPE-3	12/04/07	103.93	NP	18.35	0.00	85.58	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
DPE-3	04/28/08	104.02	NP	18.25	0.00	85.77	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
DPE-3	11/03/08	104.02	NP	14.39	0.00	89.63	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
DPE-4	10/17/06	102.26	NP	14.29	0.00	87.97	NOT SAMPLED					--	--
DPE-4	10/18/06	102.26	NP	14.29	0.00	87.97	NOT SAMPLED					--	--
DPE-4	10/24/06	102.26	NP	14.00	0.00	88.26	920	1,400	4,900	260	240	39	720
DPE-4	04/17-19/07	102.26	NP	19.17	0.00	83.09	6,700	<1,900 ¹	12,000	2,200	220	400	2,000

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DPE-4	12/04-06/07	102.26	NP	19.42	0.00	82.84	330	<100	210	44	0.9	1	5.5	
DPE-4	04/28-30/08	102.39	NP	17.36	0.00	85.03	5,200	<2,500 ¹	410	51	3	2	23	
DPE-4	04/30/08	Duplicate (DUP-5-043008)						2,500	<2,000 ¹	390	51	3	2	23
DPE-4	11/03/08	102.39	NP	14.14	0.00	88.25	NOT SAMPLED	--	--	--	--	--	--	
DPE-5	11/28/05	113.81	NP	17.26	0.00	96.55	5,300	<1,000 ¹	36,000	2,200	3,000	660	5,700	
DPE-5	01/23/06	113.32	16.70	16.75	0.05	96.61	NOT SAMPLED	--	--	--	--	--	--	
DPE-5	02/22/06	113.81	NP	17.16	0.00	96.65	NOT SAMPLED	--	--	--	--	--	--	
DPE-5	04/17/06	113.81	NM	NM	--	--	4,800	<190	19,000	1,100	1,400	160	2,900	
DPE-5	04/17-19/07	113.81	NP	23.78	0.00	90.03	4,600	<470	200	17	2.6	1.6	11	
DPE-5	12/04-06/07	113.81	NP	23.72	0.00	90.09	4,000	<470	180	0.6	0.5	0.6	4.3	
DPE-5	04/28-29/08	113.82	NP	18.93	0.00	94.89	11,000	<2,500 ¹	<250	32	4	3	22	
DPE-5	04/29/08	Filtered NWTPHDx sample (DUP-3-DXF-042908)						3,300	<1,900 ¹	--	--	--	--	--
DPE-5 ³	11/03/08	113.82	NP	22.45	0.00	91.37	12,000	<3,500 ¹	460	77	7	4	17	
DPE-6	11/28/05	113.32	NP	19.30	0.00	94.02	170	<100	280	98	4	3	10	
DPE-6	02/22/06	113.32	NP	19.62	0.00	93.70	NOT SAMPLED	--	--	--	--	--	--	
DPE-6	04/17/06	113.32	NM	NM	--	--	--	--	38,000	3,000	5,400	690	4,900	
DPE-6	04/17/07	113.32	NP	29.83	0.00	83.49	110,000	<9,300 ¹	5,400	27	39	35	350	
DPE-6	12/04-05/07	113.32	NP	28.51	0.00	84.81	1,100	<190	160	<2.0	0.6	<2.0	3.8	
DPE-6	04/28-29/08	114.14	NP	22.81	0.00	91.33	8,500	<480	460	1	6	2	32	
DPE-6	04/29/08	Filtered NWTPHDx sample (DUP-1-DXF-042908)						6,500	<480	--	--	--	--	--
DPE-6	11/04/08	114.14	NP	21.30	0.00	92.84	11,000	<1,300 ¹	870	16	12	7	63	
DPE-7	11/28/05	113.15	NP	20.50	0.00	92.65	6,200	<1,000 ¹	17,000	630	1,600	260	2,430	
DPE-7	02/22/06	113.15	NP	19.20	0.00	93.95	NOT SAMPLED	--	--	--	--	--	--	
DPE-7	04/17/06	113.15	NM	NM	--	--	8,600	<500	29,000	4,500	1,800	470	4,200	
DPE-7	04/17/07	113.15	NP	27.00	0.00	86.15	22,000	<4,700 ¹	3,800	78	40	97	180	
DPE-7	12/04-05/07	113.15	NP	27.52	0.00	85.63	120,000	<9,900 ¹	760	44	1.7	28	15	
DPE-7	04/28-29/08	113.13	NP	22.26	0.00	90.87	6,100	<980 ¹	<250	7	2	2	6	
DPE-7	04/29/08	Filtered NWTPHDx sample (DUP-2-DXF-042908)						6,300	<980 ¹	--	--	--	--	--
DPE-7	11/03/08	113.13	20.95	20.96	0.01	92.18	NOT SAMPLED	--	--	--	--	--	--	

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DPE-8/MW-22	10/26-27/04	104.83	NP	14.10	0.00	90.73	5,000	<1,000 ¹	54,000	6,600	7,500	1,600	9,900	
DPE-8/MW-22	10/28-11/01/04	104.83	NP	14.11	0.00	90.72	NOT SAMPLED	--	--	--	--	--	--	
DPE-8/MW-22	01/24-31/05	104.83	NP	13.62	0.00	91.21	980	<250	55,000	5,200	6,300	1,500	8,800	
DPE-8/MW-22	04/18-21/05	104.83	NP	13.42	0.00	91.41	2,000	<250	40,000	4,600	4,300	1,200	6,800	
DPE-8/MW-22	07/27-28/05	104.83	NP	13.53	0.00	91.30	NOT SAMPLED	--	--	--	--	--	--	
DPE-8/MW-22	11/08-10/05	104.83	NP	14.14	0.00	90.69	NOT SAMPLED	--	--	--	--	--	--	
DPE-8/MW-22	02/22/06	104.83	NP	12.34	0.00	92.49	NOT SAMPLED	--	--	--	--	--	--	
DPE-8/MW-22	04/17/06	104.83	NP	14.60	0.00	90.23	NOT SAMPLED	--	--	--	--	--	--	
DPE-8/MW-22	08/08/06	104.83	16.55	16.56	0.01	88.28	2,000	<210	41,000	3,100	3,500	1,200	6,400	
DPE-8/MW-22	08/19/06	104.83	15.30	15.65	0.35	89.46	NOT SAMPLED	--	--	--	--	--	--	
DPE-8/MW-22	08/31/06	104.83	15.21	16.33	1.12	89.40	NOT SAMPLED	--	--	--	--	--	--	
DPE-8/MW-22	09/15/06	104.83	15.47	16.55	1.08	89.14	NOT SAMPLED	--	--	--	--	--	--	
DPE-8/MW-22	10/17/06	104.35	15.75	17.12	1.37	88.32	NOT SAMPLED	--	--	--	--	--	--	
DPE-8/MW-22	10/24/06	104.35	16.59	16.59	0.00	87.76	5,200	880	67,000	3,100	4,900	1,800	11,000	
DPE-8/MW-22	04/17/07	104.35	NP	20.28	0.00	84.07	1,900,000	510,000	9,300	84	34	35	1,100	
DPE-8/MW-22	12/04-05/07	104.35	NP	20.23	0.00	84.12	120,000	32,000	4,900	2.6	1.0	3.5	49	
DPE-8/MW-22	04/28-29/08	104.49	NP	18.63	0.00	85.86	38,000	8,900	4,500	14	5	11	29	
DPE-8/MW-22	04/30/08	No purge NWTPHDx sample						820,000	190,000	--	--	--	--	--
DPE-8/MW-22	04/30/08	Filtered, no purge NWTPHDx sample						3,900	<420	--	--	--	--	--
DPE-8/MW-22	11/06/08	104.49	NP	15.51	0.00	88.98	18,000	<3,300 ¹	3,500	35	16	19	140	
DPE-9	10/17/06	103.38	NP	14.92	0.00	88.46	NOT SAMPLED	--	--	--	--	--	--	
DPE-9	10/18/06	103.38	NP	14.92	0.00	88.46	NOT SAMPLED	--	--	--	--	--	--	
DPE-9	10/24/06	103.38	Sheen	13.78	0.00	89.60	220	<100	<48	<0.5	<0.5	<0.5	<0.5	
DPE-9	04/17-18/07	103.38	NP	14.13	0.00	89.25	380	530	<50	<0.5	<0.5	<0.5	<1.5	
DPE-9	12/04/07	103.38	NP	16.23	0.00	87.15	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
DPE-9	04/28/08	103.46	NOT SAMPLED, Obstruction in well at 16.67 feet bgs					--	--	--	--	--	--	--
DPE-9	11/03/08	103.46	NP	15.06	0.00	88.40	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
RW-2	09/90	104.54	12.68	12.72	0.04	91.85	NOT SAMPLED	--	--	--	--	--	--	
RW-2	03/26-28/91	104.54	10.13	10.21	0.08	94.39	--	--	--	19,000	46,000	2,500	120,000	
RW-2	07/07/93	104.54	NP	11.71	0.00	92.83	NOT SAMPLED	--	--	--	--	--	--	
RW-2	01/97	104.54	NM	NM	--	--	--	--	390	31	14	6	49	

TABLE 1
GROUNDWATER MONITORING DATA AND HYDROCARBON CONSTITUENT RESULTS

*Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
RW-2	04/97	104.54	NM	NM	--	--	--	--	11,000	189	243	99	743
RW-2	07/97	104.54	NM	NM	--	--	--	--	24,000	4,230	2,490	398	2,732
RW-2	11/97	104.54	NM	NM	--	--	--	--	4,400	3,140	1,200	338	2,265
RW-2	07/24/02	106.63	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
RW-2	10/17-18/02	106.63	NP	14.44	0.00	92.19	988	<500	1,380	90.5	8.05	29.2	31.5
RW-2	01/21/03	106.63	NP	10.61	0.00	96.02	<250	<500	126	33.5	0.859	1.28	4.11
RW-2	04/23-24/03	106.63	NP	10.30	0.00	96.33	<250	<500	55.7	<0.500	<0.500	0.642	2.64
RW-2	06/30-07/01/03	106.63	NP	13.72	0.00	92.91	505	<500	2,380	53.5	8.72	39.8	43.2
RW-2	10/01-02/03	106.63	NP	15.05	0.00	91.58	1,400	<250	2,300	75	7.3	29	33
RW-2	01/21-23/04	106.63	NP	10.22	0.00	96.41	<250	<250	53	1.2	0.7	1.3	8.9
RW-2	04/29-30/04	106.63	NP	13.31	0.00	93.32	270	<250	81	11	0.9	2.0	1.9
RW-2	07/15-16/04	106.63	NP	14.32	0.00	92.31	<250	<500	634	25.7	2.39	6.18	3.55
RW-2	08/03/04	106.63	NP	14.90	0.00	91.73	NOT SAMPLED		--	--	--	--	--
RW-2	10/28-11/01/04	106.63	NP	14.68	0.00	91.95	280,000	<40,000 ¹	26,000	410	63	470	950
RW-2	01/24-31/05	106.63	NP	12.57	0.00	94.06	<250	<250	94	<0.5	<0.5	<2.0	2.5
RW-2	04/18-21/05	106.63	NP	9.18	0.00	97.45	260	<250	130	0.8	<0.5	2.3	6.1
RW-2	07/27-28/05	106.63	NP	14.16	0.00	92.47	NOT SAMPLED		--	--	--	--	--
RW-2	11/08-10/05	106.63	NP	9.99	0.00	96.64	NOT SAMPLED		--	--	--	--	--
RW-2	04/17/06	106.63	NP	10.80	0.00	95.83	NOT SAMPLED		--	--	--	--	--
RW-2	10/18/06	106.63	NP	17.96	0.00	88.67	NOT SAMPLED		--	--	--	--	--
RW-2	04/17-18/07	106.63	NP	17.12	0.00	89.51	15,000	<1,900 ¹	650	54	12	10	35
RW-2	12/04-06/07	106.63	NP	15.21	0.00	91.42	400	<100	<50	<0.5	<0.5	<0.5	<1.5
RW-2	04/28-29/08	106.63	NP	15.84 ²	0.00	90.79	890	<95	190	12	1	0.9	2
RW-2	11/04/08	106.63	NP	15.66	0.00	90.97	1,000	<66	890	82	9	14	6
RW-3	07/07/93	100.70	NP	16.14	0.00	84.56	NOT SAMPLED		--	--	--	--	--
RW-3	07/24/02	100.70	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
RW-3	10/17-18/02	100.70	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
RW-3	01/21/03	100.70	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
RW-3	04/23-24/03	100.70	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
RW-3	06/30-07/01/03	100.70	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
RW-3	10/01-02/03	100.70	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--

TABLE 1
GROUNDWATER MONITORING DATA AND HYDROCARBON CONSTITUENT RESULTS

*Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	
RW-3	01/21-23/04	100.70	NP	10.32	0.00	90.38	3,000	270	9,100	4,400	360	520	1,300	
RW-3	04/29-30/04	100.70	NP	10.19	0.00	90.51	5,200	<250	11,000	5,000	750	550	1,600	
RW-3	07/15-16/04	100.70	NP	10.55	0.00	90.15	1,300	1,330	18,900	5,350	341	554	1,350	
RW-3	10/28-11/01/04	100.70	NP	10.98	0.00	89.72	680	<250	10,000	4,800	120	680	1,100	
RW-3	01/24-31/05	100.70	NP	10.49	0.00	90.21	770	<250	6,600	3,000	170	460	940	
RW-3	04/18-21/05	100.70	NP	10.17	0.00	90.53	3,700	<250	8,200	3,900	380	550	1,300	
RW-3	07/27-28/05	100.70	NP	10.45	0.00	90.25	NOT SAMPLED	--	--	--	--	--	--	
RW-3	11/08-10/05	100.70	NP	10.57	0.00	90.13	NOT SAMPLED	--	--	--	--	--	--	
RW-3	04/17/06	100.70	NP	10.72	0.00	89.98	NOT SAMPLED	--	--	--	--	--	--	
RW-3	10/18/06	100.70	NP	12.55	0.00	88.15	NOT SAMPLED	--	--	--	--	--	--	
RW-4	06/25/93	110.82	NP	20.76	0.00	90.06	NOT SAMPLED	--	--	--	--	--	--	
RW-4	07/07/93	110.82	NP	21.65	0.00	89.17	--	--	14,000	6,500	2,800	370	2,000	
RW-4	07/24/02	110.82	NP	18.30	0.00	92.52	15,000	<2,000 ¹	990	62/70	1.3/1	32/36	7.0/5	
RW-4	10/17-18/02	110.82	NP	19.29	0.00	91.53	8,930	939	3,160	59.8	2.50	40.4	15.6	
RW-4	01/21/03	110.82	NP	17.88	0.00	92.94	2,830	<500	689	0.991	<0.500	2.37	7.03	
RW-4	04/23-24/03	110.82	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
RW-4	06/30-07/01/03	110.82	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
RW-4	10/01-02/03	110.82	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
RW-4	01/21-23/04	110.82	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
RW-4	04/29-30/04	110.82	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
RW-4	07/15-16/04	110.82	17.95	18.17	0.22	92.83	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	
RW-4	10/28/04	110.82	NP	18.44	0.00	92.38	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
RW-4	10/28-11/01/04	110.82	NP	DRY	0.00	--	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
RW-4	01/24-31/05	110.82	NP	18.04	0.00	92.78	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
RW-4	04/18-21/05	110.82	NP	17.86	0.00	92.96	NOT SAMPLED DUE TO INSUFFICIENT WATER/OBSTRUCTION					--	--	
RW-4	07/27-28/05	110.82	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
RW-4	04/17/06	110.82	NP	25.25	0.00	85.57	NOT SAMPLED	--	--	--	--	--	--	
RW-4	10/18/06	110.82	NP	23.64	0.00	87.18	NOT SAMPLED	--	--	--	--	--	--	
RW-5	07/07/93	104.22	NP	12.34	0.00	91.88	NOT SAMPLED	--	--	--	--	--	--	
RW-5	07/24/02	104.22	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--
RW-5	10/17-18/02	104.22	NP	12.63	0.00	91.59	84,900	3,650	3,370	696	67.2	63.0	408	

TABLE 1
GROUNDWATER MONITORING DATA AND HYDROCARBON CONSTITUENT RESULTS

*Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	
RW-5	01/21/03	104.22	NP	11.81	0.00	92.41	1,860	<500	493	17.1	4.43	1.37	52.9	
RW-5	04/23-24/03	104.22	NP	11.31	0.00	92.91	2,050	<500	2,490	9.73	13.4	<5.00	870	
RW-5	06/30-07/01/03	104.22	NP	11.91	0.00	92.31	8,010	<500	2,170	34.6	20.3	8.10	1,050	
RW-5	10/01-02/03	104.22	NP	13.29	0.00	90.93	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	
RW-5	01/21-23/04	104.22	NP	11.52	0.00	92.70	1,800	<250	470	64	12	2.5	65	
RW-5	04/29-30/04	104.22	NP	11.88	0.00	92.34	NOT SAMPLED DUE TO WIRE OBSTRUCTION					--	--	
RW-5	07/15-16/04	104.22	NP	12.22	0.00	92.00	NOT SAMPLED DUE TO INSUFFICIENT WATER/OBSTRUCTION					--	--	
RW-5	10/28-11/01/04	104.22	NP	12.98	0.00	91.24	36,000	<10,000 ¹	890	120	12	11	58	
RW-5	01/24-31/05	104.22	NP	11.31	0.00	92.91	3,200	360	880	45	13	6.6	190	
RW-5	04/18-21/05	104.22	NP	11.40	0.00	92.82	1,900	400	150	1.3	<0.5	0.8	9.4	
RW-5	07/27-28/05	104.22	NP	12.16	0.00	92.06	NOT SAMPLED					--	--	
RW-5	11/08-10/05	104.22	NP	11.84	0.00	92.38	NOT SAMPLED					--	--	
RW-5	04/17/06	104.22	NP	12.41	0.00	91.81	NOT SAMPLED					--	--	
RW-5	10/18/06	104.22	NP	14.38	0.00	89.84	NOT SAMPLED					--	--	
MP-1	07/24/02	104.95	INACCESSIBLE - UNABLE TO OPEN WELL				--	--	--	--	--	--	--	--
MP-1	10/17-18/02	104.95	INACCESSIBLE - UNABLE TO OPEN WELL				--	--	--	--	--	--	--	--
MP-1	08/03/04	104.95	NP	DRY	0.00	--	--	--	--	--	--	--	--	
MP-1	04/17/06	104.95	NP	4.32	0.00	100.63	NOT SAMPLED					--	--	
MP-2	07/24/02	97.04	INACCESSIBLE - VEHICLE PARKED OVER WELL				--	--	--	--	--	--	--	--
MP-2	10/17-18/02	97.04	UNABLE TO LOCATE				--	--	--	--	--	--	--	--
MP-2	08/03/04	97.04	NP	115.00	0.00	-17.96	NOT SAMPLED					--	--	
MP-2	04/17/06	97.04	NP	114.56	0.00	-17.52	NOT SAMPLED					--	--	
Station 5	04/05/91	--	NM	NM	--	--	--	--	7,400	5,040	12.3	42.1	41.2	
Station 5	04/05/91	--	--	--	--	--	--	--	7,030	3,850	15.0	51.8	50.9	
Station 25	04/05/91	--	NM	NM	--	--	--	--	3,000	0.9 J	13.8	10.2	134	
Station 25	04/19/91	--	NM	NM	--	--	--	--	<0.05	<0.5	<1.0	<1.0	1.4 J	
DVP-1	09/12/02	--	NP	6.00	--	--	--	--	98,100	7,640	18,600	2,660	15,000	
DVP-2	09/12/02	--	NP	6.00	--	--	--	--	107,000	13,500	19,100	2,140	12,400	
DVP-4	09/12/02	--	NP	6.00	--	--	--	--	102,000	12,300	17,400	1,980	11,500	

TABLE 1
GROUNDWATER MONITORING DATA AND HYDROCARBON CONSTITUENT RESULTS

*Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TOC (ft)	DTSPH (ft)	DTW (ft)	SPHT (ft)	GWE (ft)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
Field Blanks													
FB-1-04282008	04/28/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
FB-2-04292008	04/29/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
FB-3-04292008	04/29/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
MW-6-FB	11/10/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
MW-17-FB	11/06/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
MW-30-FB	11/06/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
TB-1-1909J	04/28/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
TB-2-1909J	04/29/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
TB-3-1909J	04/30/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
TB-4-1909J	05/01/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
TB-5-1909J	05/02/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
QA-1-110308	11/03/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5
QA-2-110308 ³	11/03/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
QA-1-110408	11/04/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
QA-2-110508	11/05/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
QA-1-110608	11/06/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
QA-2-110608	11/06/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
QA-1-111008	11/11/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
QA-1-121108	12/11/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
MTCA Method A Cleanup Levels:							500	500	800	5	1,000	700	1,000

NOTES:

TOC = Top of Casing elevation, in feet relative to an arbitrary site datum.

DTSPH = Depth to Separated Phase Hydrocarbons, from the TOC.

DTW = Depth to Water, in feet from the TOC.

SPHT = Separated Phase Hydrocarbons Thickness

GWE = Groundwater Elevation, referenced to an arbitrary site datum.

TPH-D = Total Petroleum Hydrocarbons (TPH) as diesel analyzed by Ecology method TPHDx with silica-gel cleanup.

TPH-O = Total Petroleum Hydrocarbons as heavy oil analyzed by Ecology method NWTPH-Dx with silica-gel cleanup.

TPH-G = Total Petroleum Hydrocarbons as gasoline analyzed by Ecology method NWTPH-Gx.

BTEX = Benzene, (B) toluene, (T) ethylbenzene, (E) and total xylenes (X) analyzed by US Environmental Protection Agency (EPA) method 8260B.

NM = Not Measured

NP = No Product

TABLE 1
GROUNDWATER MONITORING DATA AND HYDROCARBON CONSTITUENT RESULTS

Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington

DRY = The difference between the DTW and the total depth of the well was less than 0.20 inches in thickness, or there was insufficient water column to collect a DTW measurement

-- = Not applicable (groundwater measurements) or sample not analyzed (chemical data)

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

µg/L = Micrograms per Liter

J = Estimated result between the method detection limit and the laboratory reporting limit

Where SPHT > 0.00, GWE is corrected for the presence of SPH; correction factor: [(TOC - DTW) + (SPHT x 0.8)].

Bold results exceed MTCA Method A Cleanup Levels.

2,600/2,500 = BTEX analyzed by EPA Methods 8021B and 8260B. Second concentrations listed were obtained by EPA Method 8260B.

Ecology = Washington State Department of Ecology

MTCA = Model Toxics Control Act Cleanup Regulations [WAC 173-340-720(2)(a)(I), as amended 02/01].

¹ = Laboratory Detection Limit is greater than the MTCA Method A Cleanup level.

² = DTW was adjusted to reflect the difference in measuring tape lengths between different water level meters used to collect DTW measurements across the Site.

³ = Analyzed for Methyl tertiary butyl ether (MTBE); result = <0.5 µg/L.

⁴ = Resampled at a later date due to original samples not returned to lab for analysis within the sample holding period.

TABLE 2
GROUNDWATER QUALITY PARAMETER SUMMARY
Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington

WELL ID	DATE	TIME (24 HR)	VOLUME PURGED (GALLONS)	DTW (ft)	TEMP °C	pH	CONDUCTIVITY (µS/cm)	DO (mg/L)	REDOX (mV)	TURBIDITY (NTU)
MW-4	04/18/07	0949	1.25	16.62	13.60	7.16	472	4.00	--	105
MW-4	04/18/07	0952	1.5	16.64	13.60	7.16	467	4.58	--	61
MW-4	11/10/08	1331	--	14.09	16.91	6.38	604	0.79	139.8	-0.4
MW-4	11/10/08	1333	--	14.09	16.93	6.38	603	0.74	139.6	-0.6
MW-4	11/10/08	1335	1	14.09	16.96	6.37	602	0.72	139.2	-0.6
MW-5	11/04/08	1153	--	14.49	16.0	4.93	52.2	0.00 ¹	170	36.3
MW-5	11/04/08	1155	--	14.49	16.0	4.95	52.5	0.00 ¹	157	38.7
MW-5	11/04/08	1157	1.5	14.49	16.0	4.97	53.6	0.00 ¹	150	38.5
MW-6	05/01/08	1320	--	22.32	16.19	5.77	481	1.20	22.9	28.8
MW-6	05/01/08	1322	--	22.34	16.19	5.78	478	1.04	21.3	21.7
MW-6	05/01/08	1324	--	22.35	16.18	5.82	480	1.10	17.4	20.2
MW-6	11/10/08	1146	--	20.86	16.01	5.33	1388	2.19	146.2	1.6
MW-6	11/10/08	1148	--	20.87	15.97	5.33	1388	2.16	139.2	1.6
MW-6	11/10/08	1150	0.75	20.87	15.97	5.33	1389	2.10	132.5	1.7
VP-8/MW-7	04/18/07	1149	--	17.80	15.6	6.92	610	3.31	--	235
VP-8/MW-7	04/18/07	1152	1	17.70	15.7	7.02	613	3.29	--	305
VP-8/MW-7	04/29/08	1250	0.09	16.42	16.64	6.64	455	0.38	97.4	61.8
VP-8/MW-7	04/29/08	1252	--	16.44	15.93	6.61	451	0.36	34.6	59.8
VP-8/MW-7	04/29/08	1254	0.12	16.46	15.87	6.62	449	0.35	23.8	50.0
MW-7	11/07/08	1300	0.16	14.63	16.01	6.53	505	1.63	67.0	2.4
MW-7	11/07/08	1302	0.21	14.68	16.02	6.53	501	1.59	64.1	1.8
MW-7	11/07/08	1304	0.26	14.69	16.03	6.52	501	1.64	62.8	1.8
MW-9	12/05/07	1016	0.38	24.15	14.8	7.16	1.13	0.78	--	29
MW-9	12/05/07	1019	0.42	24.24	14.4	7.16	1.14	0.61	--	27
MW-9	05/01/08	--	--	--	--	NS	--	--	--	--
MW-9	11/10/08	1146	0.32	22.65	17.13	7.05	1033	1.54	-163	15.4
MW-9	11/10/08	1148	0.33	22.68	17.08	7.04	1032	1.43	-161.2	16.7

TABLE 2
GROUNDWATER QUALITY PARAMETER SUMMARY

*Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TIME (24 HR)	VOLUME PURGED (GALLONS)	DTW (ft)	TEMP °C	pH	CONDUCTIVITY (µS/cm)	DO (mg/L)	REDOX (mV)	TURBIDITY (NTU)
MW-9	11/10/08	1150	0.34	22.71	17.09	7.03	1033	1.46	-165.2	15.2
MW-10	04/19/07	0705	1.0	13.60	15.4	6.15	563	8.56	--	15
MW-10	04/19/07	0708	1.5	13.88	15.4	6.28	562	8.52	--	14
MW-10	12/05/07	0907	0.08	14.55	15.3	7.02	375	0.34	--	1
MW-10	12/05/07	0910	0.63	14.61	15.4	7.12	372	0.27	--	0
MW-10	05/01/08	1451	0.45	13.11	18.07	6.35	434	1.20	-30.5	63.0
MW-10	05/01/08	1453	0.46	13.12	18.14	6.32	435	1.20	-24.8	51.0
MW-10	05/01/08	1455	0.48	13.15	18.20	6.27	436	1.26	-13.4	50.3
MW-10	11/10/08	1012	<0.5	12.59	18.01	6.86	406	0.67	2.5	0.2
MW-10	11/10/08	1014	<0.5	12.64	17.98	6.85	405	0.64	0.8	0.0
MW-10	11/10/08	1016	0.5	12.68	18.09	6.83	405	0.73	11.2	0.1
MW-14	04/17/07	1538	0.60	15.68	16.3	6.86	728	-8.40	--	38
MW-14	04/17/07	1541	0.85	15.68	16.2	6.91	724	-8.53	--	13
MW-14	12/04/07	1542	--	18.52	16.5	6.97	470	0.21	--	244
MW-14	12/04/07	1545	1.5	18.52	16.6	6.97	469	0.21	--	158
MW-14	04/28/08	1553	--	17.08	16.95	6.80	538	0.668	-127.9	23.1
MW-14	04/28/08	1555	1.75	17.08	16.81	6.77	543	0.685	-127.7	24.9
MW-14	04/28/08	1557	2.0	17.08	16.76	6.53	541	0.574	-127.4	24.3
MW-14	11/04/08	0919	0.34	13.75	15.9	6.60	0.729	-- ¹	82	0.0
MW-14	11/04/08	0922	0.37	13.75	15.9	6.58	0.730	-- ¹	88	0.0
MW-14	11/04/08	0926	0.40	13.75	16.0	6.58	0.731	-- ¹	93	0.0
MW-15	04/17/07	1622	1.2	14.66	14.8	6.15	302	-8.28	--	178
MW-15	04/17/07	1625	1.4	14.68	14.8	6.07	299	-8.10	--	999
MW-15	12/04/07	1213	0.46	18.10	15.9	6.60	232	--	--	259
MW-15	12/04/07	1216	0.49	18.18	16.0	6.60	232	--	--	220
MW-15	11/07/08	1434	0.33	11.56	15.87	6.05	136	5.77	135.5	21.7
MW-15	11/07/08	1436	0.34	11.57	15.88	6.03	136	5.89	138.6	20.3
MW-15	11/07/08	1438	0.36	11.58	15.88	6.03	135	5.85	139.6	18.7

TABLE 2
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*Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TIME (24 HR)	VOLUME PURGED (GALLONS)	DTW (ft)	TEMP °C	pH	CONDUCTIVITY (µS/cm)	DO (mg/L)	REDOX (mV)	TURBIDITY (NTU)
MW-16	05/02/08	0808	1.0	17.56	14.93	7.10	345	1.86	206.0	49.5
MW-16	05/02/08	0810	--	17.56	14.95	7.10	339	2.03	204.6	47.5
MW-16	05/02/08	0812	--	17.56	14.95	7.10	338	2.14	204.6	45.2
MW-16	11/06/08	0903	<1	14.17	15.9	6.05	32.9	3.84	70	44.3
MW-16	11/06/08	0905	<1	14.17	16.0	6.03	31.0	3.75	70	43.7
MW-16	11/06/08	0907	1	14.17	16.0	6.01	30.8	3.53	71	42.9
MW-17	04/17/07	1355	0.60	14.33	16.4	6.38	591	-7.63	--	10
MW-17	04/17/07	1358	0.80	14.33	16.4	6.45	589	-8.14	--	11
MW-17	12/04/07	1254	0.45	17.20	16.2	6.93	399	--	--	98
MW-17	12/04/07	1257	0.49	17.20	16.2	6.94	394	--	--	93
MW-17	05/01/08	1034	--	15.22	15.70	6.90	255	1.26	-76.5	25.7
MW-17	05/01/08	1036	--	15.22	15.70	6.91	260	1.14	-78.6	27.4
MW-17	05/01/08	1038	--	15.22	15.70	6.90	262	1.09	-79.4	26.3
MW-17	11/06/08	1110	0.45	11.82	16.5	6.36	0.343	-- ¹	132	6.6
MW-17	11/06/08	1112	0.48	11.82	16.9	6.36	0.349	-- ¹	129	8.0
MW-17	11/06/08	1114	0.53	11.82	16.9	6.37	0.354	-- ¹	127	8.2
MW-18	04/29/08	1202	0.20	16.73	15.74	6.76	486	0.571	40.5	33.1
MW-18	04/29/08	1204	--	16.73	15.83	6.75	484	0.592	39.9	21.6
MW-18	04/29/08	1206	0.23	16.73	15.87	6.75	482	0.601	33.8	19.6
MW-18	11/07/08	1335	0.42	13.48	16.21	6.60	567	1.78	-46.0	22.1
MW-18	11/07/08	1337	0.45	13.48	16.22	6.60	568	1.78	-47.1	20.8
MW-18	11/07/08	1339	0.48	13.48	16.22	6.59	568	1.67	-47.6	20.4
MW-19	04/17/07	1816	1.20	15.41	14.5	6.07	507	-9.24	--	25
MW-19	04/17/07	1819	1.50	15.41	14.4	6.06	504	-9.27	--	13
MW-19	12/04/07	1539	0.53	20.72	13.9	6.96	194	--	--	24
MW-19	12/04/07	1542	0.59	20.75	13.9	6.99	193	--	--	24
MW-19	04/29/08	1348	0.33	16.50	12.76	6.57	288	0.088	56.6	42.6
MW-19	04/29/08	1350	--	16.50	12.85	6.56	288	0.082	51.6	28.2

TABLE 2
GROUNDWATER QUALITY PARAMETER SUMMARY
Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington

WELL ID	DATE	TIME (24 HR)	VOLUME PURGED (GALLONS)	DTW (ft)	TEMP °C	pH	CONDUCTIVITY (µS/cm)	DO (mg/L)	REDOX (mV)	TURBIDITY (NTU)
MW-19	04/29/08	1352	1	16.51	12.99	6.55	287	0.077	35.6	28.3
MW-21	04/18/07	1509	1.25	25.59	16.4	7.65	679	0.18	--	-10
MW-21	04/18/07	1512	--	25.60	16.4	7.64	676	0.18	--	-10
MW-21	12/05/07	1131	--	26.48	14.5	6.90	605	0.02	--	30
MW-21	12/05/07	1134	--	26.51	14.5	6.89	606	0.10	--	26
MW-21	05/01/08	1121	--	26.57	16.60	6.78	515	0.95	-84.0	31.1
MW-21	05/01/08	1123	--	26.58	16.66	6.77	517	0.85	-84.6	15.4
MW-21	05/01/08	1125	--	26.59	16.66	6.76	518	0.80	-84.9	38.0
MW-21	11/06/08	0926	0.48	26.42	14.2	6.56	65	5.83	-9	28
MW-21	11/06/08	0920	0.53	26.43	14.2	6.56	64.1	5.62	-12	27
MW-21	11/06/08	0925	0.58	26.44	14.2	6.57	63	5.45	-16	29
MW-23	04/18/07	1102	0.2	--	13.3	7.09	708	4.80	--	55
MW-23	04/18/07	1105	0.3	--	13.4	6.98	709	4.84	--	87
MW-23	12/06/07	0843	0.32	--	13.0	5.5	0.41	--	--	56
MW-23	12/06/07	0846	0.34	--	13.0	5.5	0.41	--	--	48
MW-25	04/17/07	1443	0.75	16.52	16.1	7.11	678	-8.49	--	9
MW-25	04/17/07	1446	1.0	16.64	16.0	7.07	682	-8.55	--	2
MW-25	12/04/07	1117	0.46	18.92	16.4	6.64	300	--	--	16
MW-25	12/04/07	1120	0.53	18.98	16.4	6.68	298	--	--	15
MW-25	04/28/08	1646	--	17.73	16.22	7.06	537	2.004	-101.6	9.8
MW-25	04/28/08	1648	--	17.76	16.24	7.05	537	2.046	-98.9	10.3
MW-25	04/28/08	1650	0.50	17.78	16.26	7.06	537	2.043	-100.2	9.1
MW-25	11/04/08	0826	0.37	14.37	14.3	6.74	0.839	-- ¹	87	0
MW-25	11/04/08	0829	0.40	14.37	14.5	6.75	0.848	-- ¹	96	0
MW-25	11/04/08	0832	0.42	14.38	14.3	6.76	0.850	-- ¹	98	0
MW-26	04/18/07	0922	1.75	15.22	14.2	7.82	361	2.08	--	10
MW-26	04/18/07	0925	2.25	15.22	14.2	7.82	377	1.10	--	10

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*Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TIME (24 HR)	VOLUME PURGED (GALLONS)	DTW (ft)	TEMP °C	pH	CONDUCTIVITY (µS/cm)	DO (mg/L)	REDOX (mV)	TURBIDITY (NTU)
MW-26	12/05/07	1241	0.66	18.83	15.6	6.90	444	--	--	2
MW-26	12/05/07	1244	0.73	18.81	15.6	6.90	438	--	--	2
MW-26	05/01/08	0924	--	16.37	14.69	6.86	490	0.75	-31.5	99.1
MW-26	05/01/08	0926	--	16.35	14.70	6.86	488	0.80	-34.3	90.8
MW-26	05/01/08	0928	--	16.29	14.73	6.86	486	0.68	-35.1	90.0
MW-26	11/06/08	1108	<1	12.92	16.1	6.49	68.9	-- ¹	-80	21.7
MW-26	11/06/08	1110	<1	12.92	16.2	6.49	68.7	-- ¹	-86	18.6
MW-26	11/06/08	1112	1	12.92	16.2	6.49	6.80	-- ¹	-91	18.0
MW-30	04/18/07	1338	--	24.69	15.9	6.93	772	8.03	--	31
MW-30	04/18/07	1341	1.0	24.69	15.7	6.94	765	8.04	--	19
MW-30	12/05/07	1014	0.40	24.84	15.6	6.74	646	--	--	348
MW-30	12/05/07	1017	0.53	24.84	15.6	6.70	642	--	--	346
MW-30	04/30/08	1251	0.88	24.82	16.18	6.56	442	1.74	168.3	1.2
MW-30	04/30/08	1253	0.91	24.83	16.18	6.57	444	1.70	164.4	0.6
MW-30	04/30/08	1255	0.94	24.83	16.15	6.57	445	1.69	162.4	-0.6
MW-30	11/06/08	1208	1.06	24.89	15.6	6.27	0.666	-- ¹	220	59.6
MW-30	11/06/08	1210	1.08	24.89	15.5	6.25	0.654	-- ¹	222	51.6
MW-30	11/06/08	1212	1.11	24.90	15.5	6.25	0.648	-- ¹	225	51.3
MW-30	11/06/08	1214	1.14	24.90	15.5	6.24	0.641	-- ¹	227	52
MW-30	11/06/08	1216	1.16	24.90	15.5	6.23	0.632	-- ¹	230	59
MW-31	04/18/07	1425	--	19.78	15.2	7.12	636	5.67	--	22
MW-31	04/18/07	1428	1.5	19.78	15.2	7.07	629	5.45	--	139
MW-31	12/05/07	1042	--	20.13	14.7	6.77	571	1.64	--	20
MW-31	12/05/07	1045	--	20.14	14.8	6.78	561	1.82	--	15
MW-31	04/30/08	0905	--	20.21	13.21	6.68	459	0.194	185.5	402.1
MW-31	04/30/08	0907	--	20.21	13.49	6.68	459	0.203	185.1	349.9
MW-31	04/30/08	0909	--	20.21	13.76	6.68	459	0.211	184.6	260.5
MW-31	11/04/08	1156	0.50	20.23	14.9	6.48	0.599	-- ¹	108	53.6
MW-31	11/04/08	1159	0.53	20.22	14.9	6.47	0.594	-- ¹	112	63.6

TABLE 2
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631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TIME (24 HR)	VOLUME PURGED (GALLONS)	DTW (ft)	TEMP °C	pH	CONDUCTIVITY (µS/cm)	DO (mg/L)	REDOX (mV)	TURBIDITY (NTU)
MW-31	11/04/08	1202	0.55	20.22	14.8	6.46	0.590	-- ¹	116	70.7
MW-32	04/18/07	0829	1.5	16.46	14.1	7.53	768	0.47	--	10
MW-32	04/18/07	0832	2.0	16.47	14.1	7.53	774	0.48	--	10
MW-32	12/05/07	1423	0.46	18.73	14.3	7.09	342	--	--	74
MW-32	12/05/07	1426	0.53	18.73	14.3	7.09	345	--	--	70
MW-32	04/29/08	1644	--	17.44	13.16	6.99	246	0.173	44.7	28.2
MW-32	04/29/08	1646	0.75	17.43	13.18	6.98	246	0.159	29.0	28.6
MW-32	04/29/08	1648	1.0	17.43	13.22	6.98	247	0.149	16.6	20.8
MW-32	11/04/08	1004	0.42	13.73	13.5	6.67	0.324	-- ¹	4	0.3
MW-32	11/04/08	1007	0.48	13.79	14.1	6.68	0.317	-- ¹	4	0.1
MW-32	11/04/08	1010	0.53	13.81	14.2	6.68	0.323	-- ¹	14	0.8
MW-33	04/18/07	0845	0.9	30.00	13.1	6.55	93	8.90	--	8
MW-33	04/18/07	0848	1.5	30.02	13.2	6.40	93	8.89	--	7
MW-33	12/05/07	0856	--	31.02	11.2	6.84	932	--	--	15
MW-33	12/05/07	0859	--	31.09	11.1	6.83	934	--	--	15
MW-33	04/28/08	1448	0.008	30.69	14.78	6.70	781	0.870	-35.6	6.8
MW-33	04/28/08	1450	0.03	30.70	14.71	6.69	779	0.931	-46.6	6.3
MW-33	04/28/08	1452	0.05	30.71	14.69	6.69	777	0.812	-49.3	4.6
MW-33	11/04/08	1056	0.42	29.94	13.4	6.45	0.905	-- ¹	-42	0.9
MW-33	11/04/08	1059	0.45	29.94	13.4	6.45	0.908	-- ¹	-55	0.0
MW-33	11/04/08	1102	0.48	29.95	13.5	6.45	0.909	-- ¹	-58	0.0
MW-34	04/18/07	1354	1.0	27.10	16.7	7.32	440	4.44	--	576
MW-34	04/18/07	1357	--	27.02	16.7	7.31	441	4.33	--	-10
MW-34	12/05/07	0937	--	27.23	15.7	6.66	396	4.68	--	17
MW-34	12/05/07	0940	--	27.23	15.8	6.62	400	4.30	--	24
MW-34	04/30/08	1445	0.66	27.19	16.63	6.02	353	3.98	207.0	27.7
MW-34	04/30/08	1447	0.71	27.19	16.59	5.99	354	3.77	212.9	56.2
MW-34	04/30/08	1449	--	27.18	16.59	5.99	354	3.70	214.2	52.1

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631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TIME (24 HR)	VOLUME PURGED (GALLONS)	DTW (ft)	TEMP °C	pH	CONDUCTIVITY (µS/cm)	DO (mg/L)	REDOX (mV)	TURBIDITY (NTU)
MW-34	11/06/08	1414	1.32	27.24	13.60	6.39	0.529	-- ¹	329	63
MW-34	11/06/08	1416	1.37	27.24	13.70	6.38	0.531	-- ¹	325	59
MW-34	11/06/08	1418	1.43	27.24	13.60	6.38	0.531	-- ¹	322	58
MW-35	05/01/08	0822	--	31.86	14.15	6.66	699	1.39	-49.0	22.3
MW-35	05/01/08	0824	--	31.86	14.20	6.68	699	1.36	-49.3	37.5
MW-35	05/01/08	0826	--	31.86	14.26	6.66	699	1.39	-48.8	29.9
MW-35	11/05/08	No Parameters obtained due to use of bailer for sampling, as requested by PM.								
DPE-1/VP-6	04/19/07	1028	1.00	15.37	15.3	7.12	595	-8.36	--	340
DPE-1/VP-6	04/19/07	1031	1.25	15.35	15.3	7.05	597	-8.19	--	159
DPE-1/VP-6	12/05/07	1336	--	20.41	13.9	6.84	376	0.20	--	224
DPE-1/VP-6	12/05/07	1339	--	20.42	14.0	6.82	379	0.27	--	181
DPE-1/VP-6	04/29/08	1257	--	16.65	16.03	6.60	458	0.040	5.6	409.3
DPE-1/VP-6	04/29/08	1259	--	16.65	15.89	6.61	459	0.037	7.2	380.1
DPE-1/VP-6	04/29/08	1301	2.5	16.65	15.80	6.60	458	0.040	10.4	369.4
DPE-2	04/17/07	1725	1.00	16.17	16.3	5.94	531	-7.40	--	232
DPE-2	04/17/07	1728	1.20	16.17	16.3	5.91	536	-9.31	--	315
DPE-2	12/05/07	1526	--	20.58	15.4	6.68	371	0.48	--	18
DPE-2	12/05/07	1529	--	20.53	--	6.67	393	--	--	--
DPE-2	04/29/08	1200	--	17.19	16.49	6.66	448	0.091	7.5	-2.1
DPE-2	04/29/08	1202	--	17.19	16.67	6.66	449	0.085	4.8	-2.6
DPE-2	04/29/08	1204	1.5	17.19	16.71	6.65	449	0.081	8.1	-3.9
DPE-2	11/04/08	1106	<1	14.27	17.0	6.13	62.7	0.0	88	25.5
DPE-2	11/04/08	1108	<1	14.27	17.0	6.14	62.6	0.0	83	25.7
DPE-2	11/04/08	1110	1	14.27	17.0	6.12	62.9	0.0	80	27.6
DPE-3	04/19/07	1127	1.20	18.63	16.40	6.70	601	7.58	--	297
DPE-3	04/19/07	1130	1.50	18.98	16.30	6.72	603	7.62	--	273
DPE-3	04/29/08	1403	0.0	20.78	14.96	7.02	458	0.210	15.8	39.3

TABLE 2
GROUNDWATER QUALITY PARAMETER SUMMARY

*Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TIME (24 HR)	VOLUME PURGED (GALLONS)	DTW (ft)	TEMP °C	pH	CONDUCTIVITY (µS/cm)	DO (mg/L)	REDOX (mV)	TURBIDITY (NTU)
DPE-3	04/29/08	1405	--	20.89	14.98	7.03	459	0.190	8.2	29.6
DPE-3	04/29/08	1407	--	20.96	14.95	7.04	459	0.183	4.6	31.0
DPE-4	04/19/07	1247	1.00	17.16	15.5	6.70	93	-8.99	--	151
DPE-4	04/19/07	1250	1.25	17.25	15.5	6.72	92	-9.01	--	148
DPE-4	04/30/08	1122	0.0	19.48	14.74	7.53	830	6.2	-225.0	580.5
DPE-4	04/30/08	1128	0.25	18.77	15.06	7.62	837	4.3	-237.0	377.3
DPE-4	04/30/08	1130	--	18.95	15.15	7.62	841	3.8	-238.2	451.3
DPE-4	04/30/08	1132	0.5	19.08	15.25	7.63	843	3.1	-241.3	400.8
DPE-5	04/19/07	NOT MEASURED		--	--	--	--	--	--	--
DPE-5	04/29/08	0953	0.35	21.32	14.40	7.00	606	1.364	-116.6	1980.7
DPE-5	04/29/08	0955	0.45	21.47	14.38	7.00	604	1.395	-118.8	1957.7
DPE-5	04/29/08	0957	0.50	21.61	14.37	7.00	603	1.409	-119.7	1975.3
DPE-5	11/03/08	1548	1	23.36	15.2	7.29	1.09	-- ¹	--	253.0
DPE-5	11/03/08	1550	1.25	23.59	15.2	7.30	1.08	-- ¹	--	255.0
DPE-5	11/03/08	1552	1.4	23.75	15.2	7.28	1.08	-- ¹	--	237.0
DPE-6	04/17/07	--	--	--	NM	--	--	--	--	--
DPE-6	12/05/07	1330	0.77	28.48	16.5	7.23	439	5.73	--	36
DPE-6	12/05/07	1333	0.82	28.48	16.5	7.24	438	6.05	--	33
DPE-6	04/29/08	0839	0.5	23.26	16.89	6.81	1482	2.165	-157.1	16.4
DPE-6	04/29/08	0841	--	23.29	16.98	6.79	1480	2.274	-155.6	15.0
DPE-6	04/29/08	0843	--	23.31	17.04	6.77	1479	2.349	-154.7	15.7
DPE-6	11/03/08	0832	<0.5	21.61	15.5	6.44	0.142	-- ¹	107	673.0
DPE-6	11/03/08	0834	<0.5	21.61	15.3	6.46	0.142	-- ¹	96	684
DPE-6	11/03/08	0836	0.5	21.61	15.6	6.49	0.142	-- ¹	91	691
DPE-7	04/17/07	--	--	--	NM	--	--	--	--	--
DPE-7	12/05/07	NOT MEASURED		--	--	--	--	--	--	--
DPE-7	04/29/08	0904	--	22.55	15.57	6.63	763	0.088	4.7	104.5

TABLE 2
GROUNDWATER QUALITY PARAMETER SUMMARY

*Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington*

WELL ID	DATE	TIME (24 HR)	VOLUME PURGED (GALLONS)	DTW (ft)	TEMP °C	pH	CONDUCTIVITY (µS/cm)	DO (mg/L)	REDOX (mV)	TURBIDITY (NTU)
DPE-7	04/29/08	0906	--	22.56	15.59	6.62	763	0.080	3.7	102.2
DPE-7	04/29/08	0908	0.50	22.57	15.65	6.61	762	0.077	6.0	97.8
DPE-8/MW-22	04/17/07	--	--	--	NM	--	--	--	--	--
DPE-8/MW-22	12/06/07	1058	--	20.38	12.8	6.67	618	2.50	--	264
DPE-8/MW-22	12/06/07	1101	--	20.38	12.6	6.72	618	3.08	--	268
DPE-8/MW-22	04/29/08	1543	--	21.91	13.69	7.09	783	0.026	-165.9	86.8
DPE-8/MW-22	04/29/08	1545	--	21.99	13.69	7.06	763	0.047	-144.9	81.7
DPE-8/MW-22	04/29/08	1547	0.50	22.01	13.70	7.03	747	0.070	-117.2	80.1
DPE-8/MW-22	11/06/08	1250	<1	15.96	14.9	6.47	0.145	-- ¹	32	58.6
DPE-8/MW-22	11/06/08	1252	<1	15.98	14.9	6.47	0.144	-- ¹	30	57.9
DPE-8/MW-22	11/06/08	1254	1	16.02	14.9	6.47	0.143	-- ¹	28	59.3
DPE-9	04/18/07	1020	2.60	17.34	13.5	7.57	283	0.57	--	372
DPE-9	04/18/07	1023	2.75	17.51	13.5	7.59	284	0.55	--	338
DPE-9	12/06/07	--	--	--	--	NS	--	--	--	--
DPE-9	04/30/08	--	--	--	--	NS	--	--	--	--
RW-2	04/18/07	1111	0.6	16.01	14.8	7.02	315	9.06	--	7
RW-2	04/18/07	1114	0.8	16.05	15.0	7.03	309	9.00	--	6
RW-2	12/06/07	0825	0.58	17.22	13.5	6.25	157	7.45	--	-1
RW-2	12/06/07	0828	0.69	17.26	13.6	6.29	156	7.45	--	0
RW-2	04/29/08	1449	--	17.45	13.95	6.55	221	0.073	4.1	57.9
RW-2	04/29/08	1451	0.50	17.49	14.09	6.55	222	0.057	-0.5	53.1
RW-2	04/29/08	1453	0.75	17.52	14.05	6.55	222	0.047	-2.7	52.7
RW-2	11/04/08	0958	<0.5	15.90	14.8	6.24	55.7	-- ¹	4	199.0
RW-2	11/04/08	1000	<0.5	15.90	14.7	6.23	53.6	-- ¹	4	206.0
RW-2	11/04/08	1002	0.5	15.91	14.7	6.24	55.3	-- ¹	-6	197.0

TABLE 2
GROUNDWATER QUALITY PARAMETER SUMMARY
Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington

NOTES:

DTW = Depth to Water

ft = feet

°C = Degrees Celsius

μS/cm = microSiemens per centimeter

DO = Dissolved Oxygen

mg/L = milligrams per liter

mV = milliVolts

NTU = Nephelometric Turbidity Unit

¹ D.O. sensor on Horiba not working properly, readings not accurate. Please see field logs for details.

-- = Not applicable; groundwater parameter not collected.

TABLE 3
MONITORED NATURAL ATTENUATION PARAMETER RESULTS
Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington

WELL ID	DATE	Alkalinity to pH 8.3 ¹ (µg/L as CaCO3)	Alkalinity to pH 4.5 ¹ (µg/L as CaCO3)	Total Iron ² (µg/L)	Ferrous Iron ³ (µg/L)	Manganese ² (µg/L)	Nitrate- Nitrogen ⁴ (µg/L)	Nitrite- Nitrogen ⁴ (µg/L)	Sulfate ⁴ (µg/L)	Sulfide ⁵ (µg/L)	COMMENTS
VP-7/MW-3	03/26-28/91	NA	NA	50,000	NA	8,600	<0.010	NA	NA	NA	
VP-7/MW-3	12/14/99	NA	NA	NA	11.7	7.76	<0.10	NA	13,400	NA	
VP-8/MW-7	11/07/08	<460	193,000	5,470	<0.100	527	0.84	<0.200	109,000	<54	
VP-9	12/15/99	NA	NA	NA	9,400	420	9,200	NA	34,000,000	NA	
MW-4	12/15/99	NA	NA	NA	6.15	10.5	<0.10	NA	<200	NA	
MW-4	11/10/08	<460	117,000	<52.2	<0.100	1,460	4.72	<0.200	220,000	<54	
MW-6	05/01/08	<460	57,400	22,900	17.3	5,170	0.560	<0.200	155,000	270	
MW-6	11/10/08	<460	38,900	6,590	0.698	32,400	21.1	0.300	785,000	<54	
MW-6	11/10/08	<460	39,200	6,370	0.819	32,700	21.0	0.310	843,000	<54	Duplicate Sample (DUP-1-111008)
MW-9	12/15/99	NA	NA	NA	6.15	10.5	NA	NA	NA	NA	
MW-9	11/10/08	<460	578,000	23,400	2.50	21,400	<0.200	<0.200	13,800	200	
MW-10	03/26-28/91	NA	NA	15,000	1.59	3,200	0.243	NA	NA	NA	
MW-10	03/26-28/91	NA	NA	10,000	NA	3,400	0.243	NA	NA	NA	Duplicate Sample
MW-10	12/15/99	NA	NA	NA	<2.00	5.12	0.72	NA	70,600	NA	
MW-10	05/01/08	<460	208,000	32,800	1.59	3,110	0.320	<0.200	33,900	<54	
MW-10	11/10/08	<460	168,000	390	0.120	1,570	1.33	<0.200	45,900	<54	
MW-15	11/07/08	<460	44,400	116	<0.100	95.5	0.490	<0.200	25,400	<54	
MW-16	05/02/08	<460	121,000	2,250	<0.250	1,240	1.63	0.600	23,900	<54	
MW-16	11/06/08	<460	50,300	181	<0.100	1,900	5.58	<0.200	46,200	<54	
MW-17	05/01/08	<460	111,000	2,820	<0.250	2,570	<0.200	<0.200	27,600	<54	
MW-17	11/06/08	<460	92,800	499	<0.100	1,990	1.50	<0.200	65,700	<54	

TABLE 3
MONITORED NATURAL ATTENUATION PARAMETER RESULTS
Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington

WELL ID	DATE	Alkalinity to pH 8.3 ¹ (µg/L as CaCO3)	Alkalinity to pH 4.5 ¹ (µg/L as CaCO3)	Total Iron ² (µg/L)	Ferrous Iron ³ (µg/L)	Manganese ² (µg/L)	Nitrate- Nitrogen ⁴ (µg/L)	Nitrite- Nitrogen ⁴ (µg/L)	Sulfate ⁴ (µg/L)	Sulfide ⁵ (µg/L)	COMMENTS
MW-17	11/06/08	<460	111,000	647	<0.100	2,450	1.09	<0.200	68,400	<54	Duplicate Sample (DUP-2-110608)
MW-18	11/07/08	<460	266,000	3,170	0.233	4,300	<0.200	<0.200	55,300	<54	
MW-21	05/01/08	<460	268,000	8,110	2.13	395	<0.200	<0.200	21,900	<54	
MW-21	11/06/08	<460	260,000	5,980	0.216	374	<0.200	<0.200	18,400	<54	
MW-26	05/01/08	<460	129,000	3,030	0.373	3,660	<0.200	<0.200	137,000	57	
MW-26	05/01/08	<460	131,000	3,210	0.817	3,660	<0.200	<0.200	133,000	<54	Duplicate Sample (DUP-7-050108)
MW-26	11/06/08	<460	156,000	4,260	0.275	3,710	0.800	<0.200	117,000	78	
MW-30	04/30/08	<460	228,000	1,570	<0.250	144	4.91	<0.200	16,500	<54	
MW-30	11/06/08	<460	226,000	196	<0.100	108	4.11	<0.200	10,700	<54	
MW-30	11/06/08	<460	224,000	325	<0.100	92.9	4.09	<0.200	11,000	<54	Duplicate Sample (DUP-1-110608)
MW-34	04/30/08	<460	113,000	1,750	<0.250	37.4	11.4	<0.200	23,000	<54	
MW-34	11/06/08	<460	90,100	426	<0.100	15.7	15.9 E	<0.200	24,500	<54	
MW-35	05/01/08	<460	391,000	2,010	0.636	3,620	<0.200	<0.200	<1,500	<54	
DPE-8 (MW-22)	11/06/08	<460	529,000	99,600	4.62	22,300	<0.200	<0.200	4,200	580	

NOTES:

(µg/L) = Micrograms per Liter

NA = Not Analyzed

< = Analyte not detected at or above the laboratory detection limit. Value represents reporting limit.

E = Concentration exceeds the calibration range and therefore the result is semi-quantitative.

¹ Alkalinity analyzed by SM20 2320B

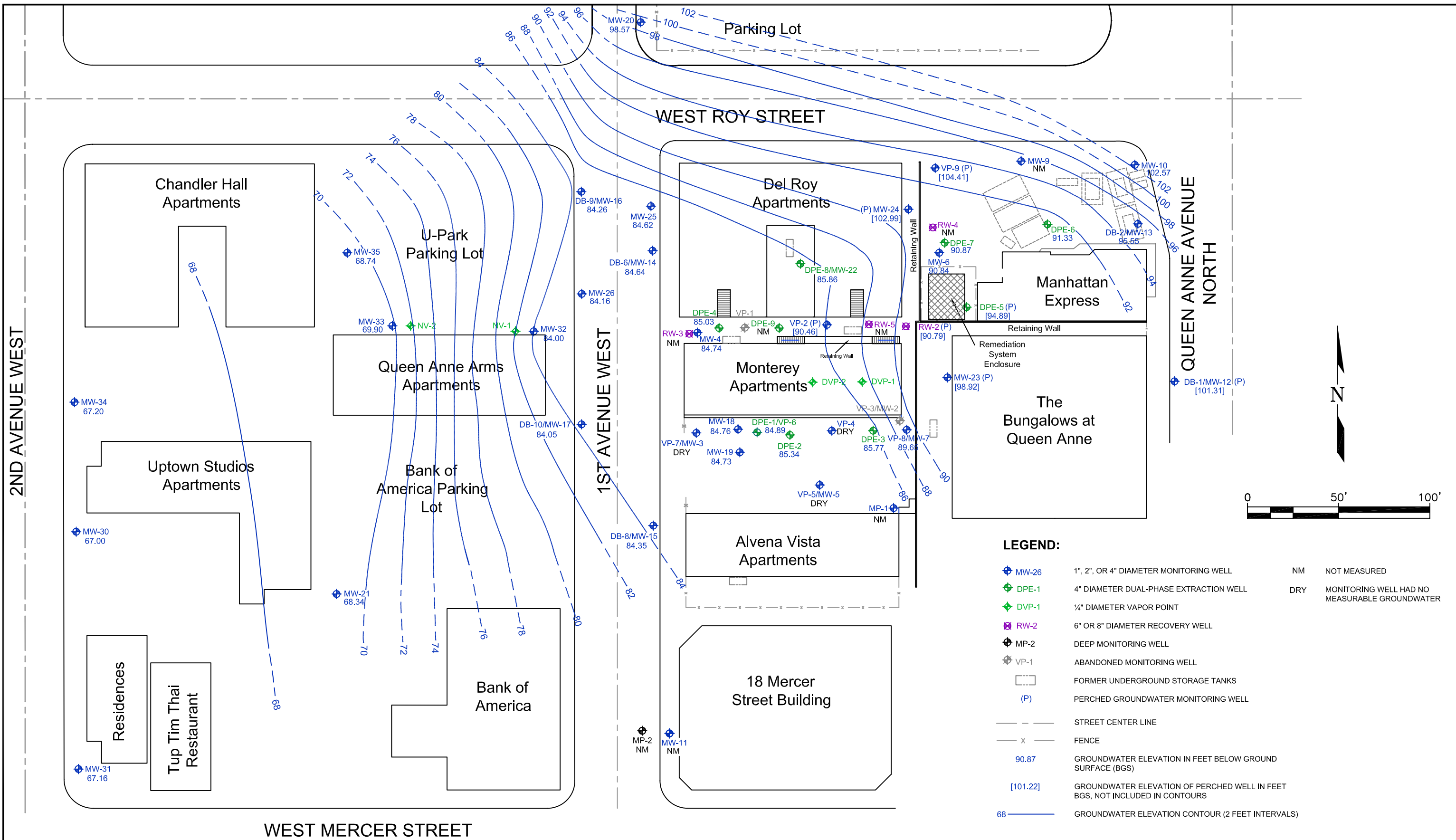
² Total Iron and manganese analyzed by U.S. Environmental Protection Agency (EPA) Method 6010B

³ Ferrous Iron analyzed by SM 3500FeB

⁴ Nitrate-nitrogen, nitrite-nitrogen and sulfate analyzed by EPA Method 300.0

⁵ Sulfide analyzed by SM20 4500 S2 D

Figures



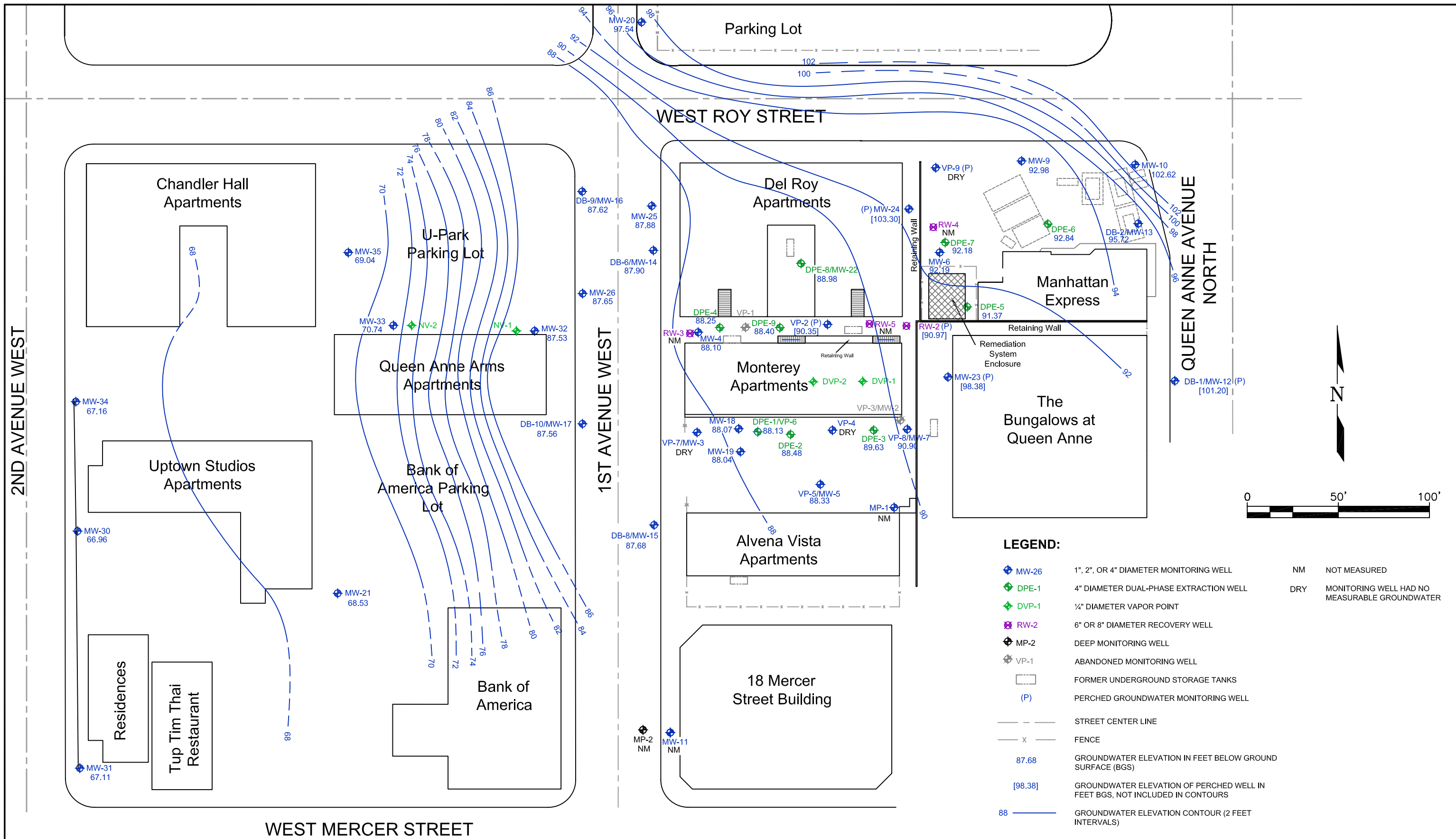
LEGEND:

- ◆ MW-26 1", 2", OR 4" DIAMETER MONITORING WELL
- ◆ DPE-1 4" DIAMETER DUAL-PHASE EXTRACTION WELL
- ◆ DVP-1 1/4" DIAMETER VAPOR POINT
- ◆ RW-2 6" OR 8" DIAMETER RECOVERY WELL
- ◆ MP-2 DEEP MONITORING WELL
- ◆ VP-1 ABANDONED MONITORING WELL
- FORMER UNDERGROUND STORAGE TANKS
- (P) PERCHED GROUNDWATER MONITORING WELL
- STREET CENTER LINE
- x FENCE
- 90.87 GROUNDWATER ELEVATION IN FEET BELOW GROUND SURFACE (BGS)
- [101.22] GROUNDWATER ELEVATION OF PERCHED WELL IN FEET BGS, NOT INCLUDED IN CONTOURS
- 68 GROUNDWATER ELEVATION CONTOUR (2 FEET INTERVALS)
- NM NOT MEASURED
- DRY MONITORING WELL HAD NO MEASURABLE GROUNDWATER



SOURCE: DELTA ENVIRONMENTAL CONSULTANTS, INC. OCTOBER 7, 2002.

<p>FORMER TEXACO SERVICE STATION CHEVRON No. 211577 631 QUEEN ANNE AVENUE NORTH SEATTLE, WASHINGTON</p>	<p>FIGURE 1 GROUNDWATER ELEVATION CONTOUR MAP - APRIL 28, 2008</p>
<p>FILE NAME: 211577_2008 GW Concentrations.dwg</p>	<p>DATE: 02/19/09</p>



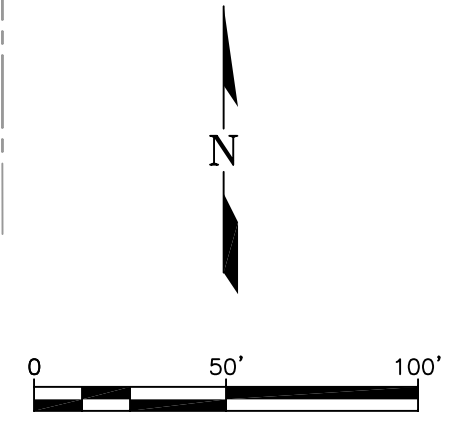
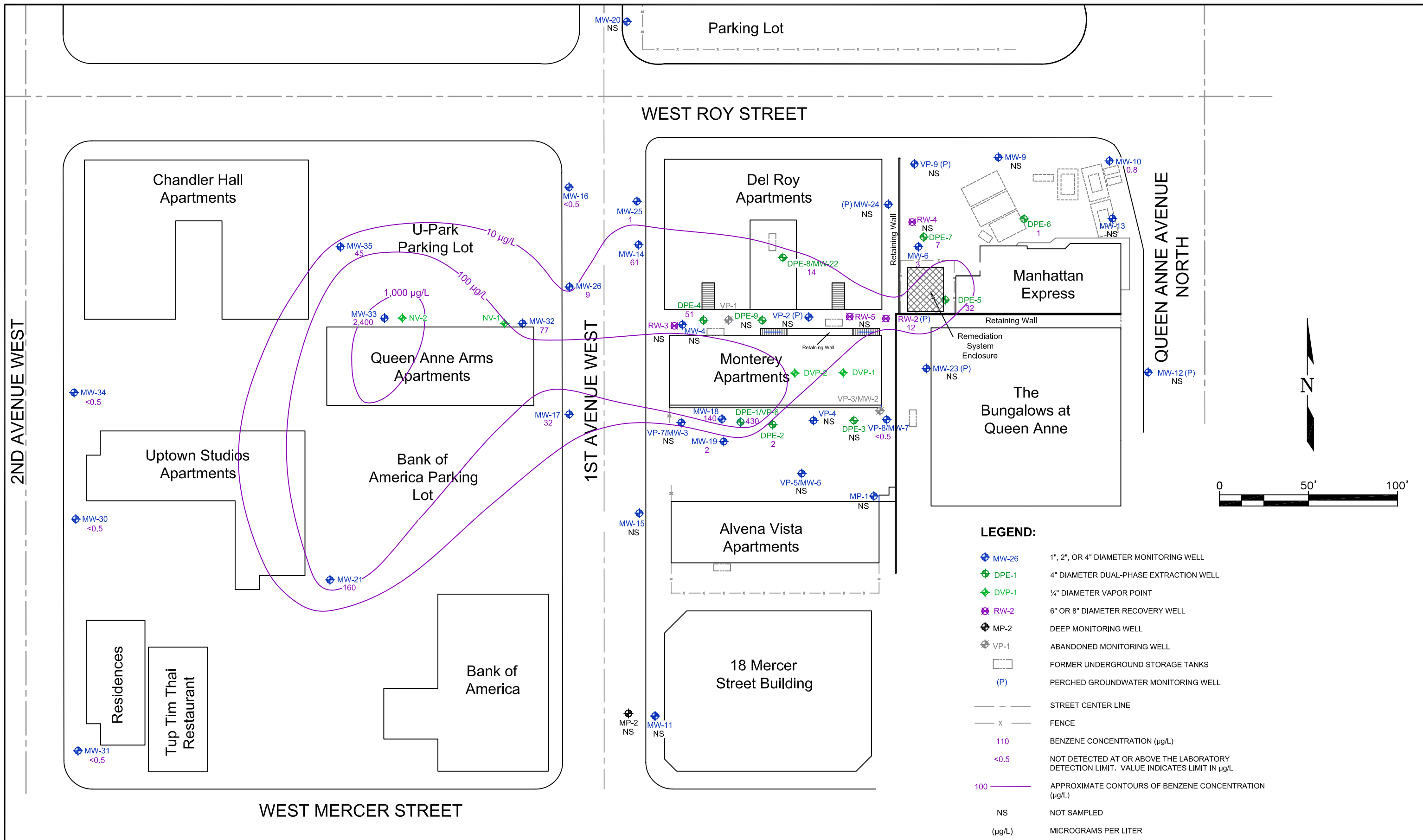
LEGEND:

	MW-26	1", 2", OR 4" DIAMETER MONITORING WELL	NM	NOT MEASURED
	DPE-1	4" DIAMETER DUAL-PHASE EXTRACTION WELL	DRY	MONITORING WELL HAD NO MEASURABLE GROUNDWATER
	DVP-1	1/4" DIAMETER VAPOR POINT		
	RW-2	6" OR 8" DIAMETER RECOVERY WELL		
	MP-2	DEEP MONITORING WELL		
	VP-1	ABANDONED MONITORING WELL		
		FORMER UNDERGROUND STORAGE TANKS		
	(P)	PERCHED GROUNDWATER MONITORING WELL		
		STREET CENTER LINE		
	x	FENCE		
	87.68	GROUNDWATER ELEVATION IN FEET BELOW GROUND SURFACE (BGS)		
	[98.38]	GROUNDWATER ELEVATION OF PERCHED WELL IN FEET BGS, NOT INCLUDED IN CONTOURS		
	88	GROUNDWATER ELEVATION CONTOUR (2 FEET INTERVALS)		



SOURCE: DELTA ENVIRONMENTAL CONSULTANTS, INC. OCTOBER 7, 2002.

FORMER TEXACO SERVICE STATION CHEVRON No. 211577 631 QUEEN ANNE AVENUE NORTH SEATTLE, WASHINGTON	FIGURE 2 GROUNDWATER ELEVATION CONTOUR MAP - NOVEMBER 3, 2008	
	FILE NAME: 211577_2008 GW Concentrations.dwg	DATE: 02/19/09



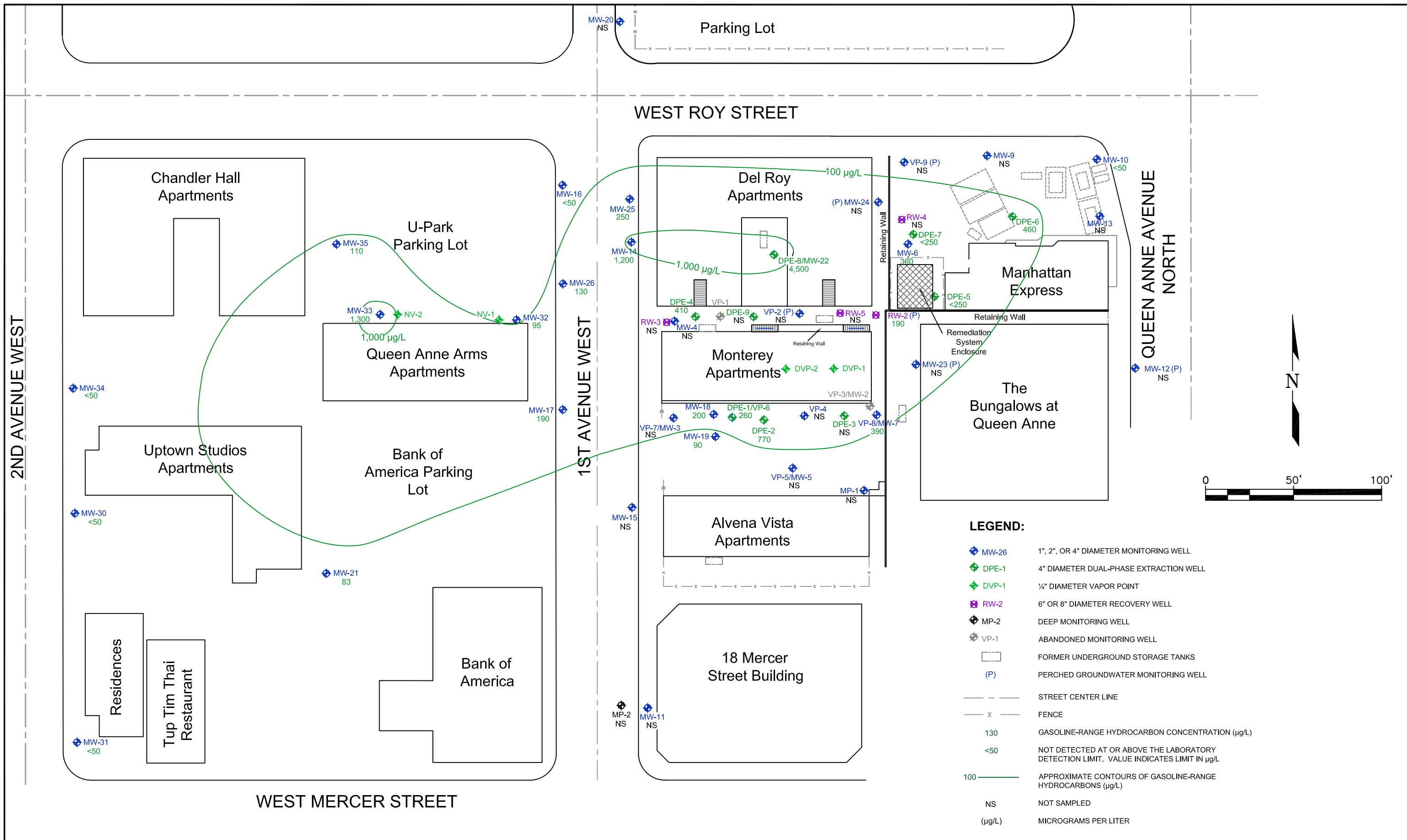
LEGEND:

	MW-26	1", 2", OR 4" DIAMETER MONITORING WELL
	DPE-1	4" DIAMETER DUAL-PHASE EXTRACTION WELL
	DVP-1	1/4" DIAMETER VAPOR POINT
	RW-2	6" OR 8" DIAMETER RECOVERY WELL
	MP-2	DEEP MONITORING WELL
	VP-1	ABANDONED MONITORING WELL
		FORMER UNDERGROUND STORAGE TANKS
	(P)	PERCHED GROUNDWATER MONITORING WELL
		STREET CENTER LINE
	x	FENCE
	110	BENZENE CONCENTRATION ($\mu\text{g/L}$)
	<math><0.5</math>	NOT DETECTED AT OR ABOVE THE LABORATORY DETECTION LIMIT. VALUE INDICATES LIMIT IN $\mu\text{g/L}$
	100	APPROXIMATE CONTOURS OF BENZENE CONCENTRATION ($\mu\text{g/L}$)
	NS	NOT SAMPLED
	($\mu\text{g/L}$)	MICROGRAMS PER LITER



SOURCE: DELTA ENVIRONMENTAL CONSULTANTS, INC. OCTOBER 7, 2002.

FORMER TEXACO SERVICE STATION CHEVRON No. 211577 631 QUEEN ANNE AVENUE NORTH SEATTLE, WASHINGTON	FIGURE 3 BENZENE CONCENTRATIONS IN GROUNDWATER - APRIL/MAY 2008	
	FILE NAME: 211577_2008 GW Concentrations.dwg	DATE: 02/24/09



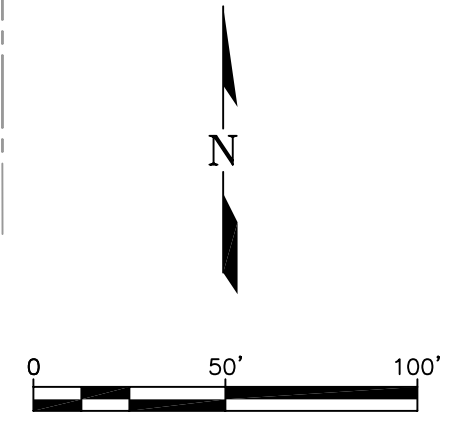
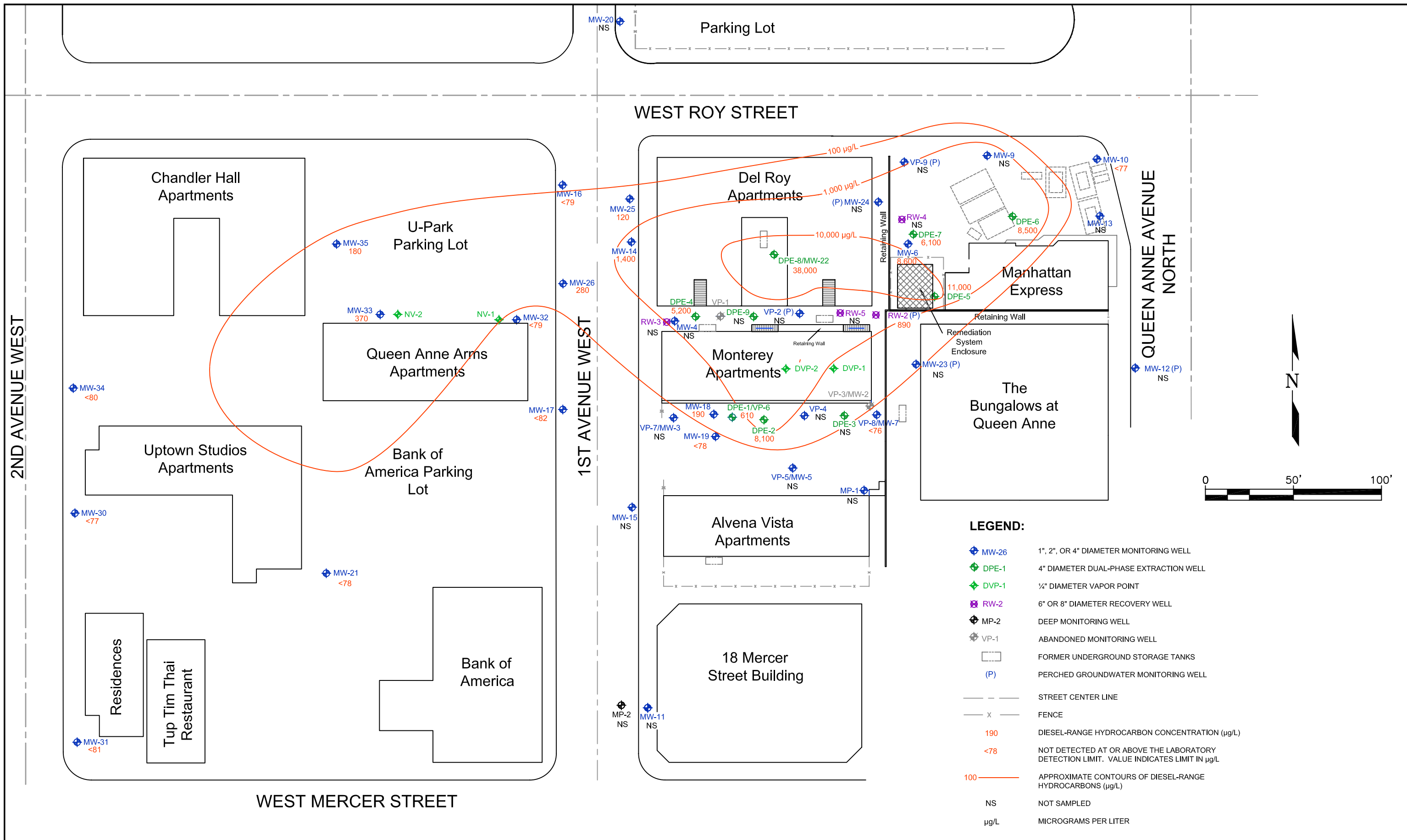
LEGEND:

- MW-26 1", 2", OR 4" DIAMETER MONITORING WELL
- DPE-1 4" DIAMETER DUAL-PHASE EXTRACTION WELL
- DVP-1 1/4" DIAMETER VAPOR POINT
- RW-2 6" OR 8" DIAMETER RECOVERY WELL
- MP-2 DEEP MONITORING WELL
- VP-1 ABANDONED MONITORING WELL
- FORMER UNDERGROUND STORAGE TANKS
- (P) PERCHED GROUNDWATER MONITORING WELL
- STREET CENTER LINE
- FENCE
- 130 GASOLINE-RANGE HYDROCARBON CONCENTRATION (µg/L)
- <50 NOT DETECTED AT OR ABOVE THE LABORATORY DETECTION LIMIT. VALUE INDICATES LIMIT IN µg/L
- 100 APPROXIMATE CONTOURS OF GASOLINE-RANGE HYDROCARBONS (µg/L)
- NS NOT SAMPLED
- (µg/L) MICROGRAMS PER LITER



SOURCE: DELTA ENVIRONMENTAL CONSULTANTS, INC. OCTOBER 7, 2002.

FORMER TEXACO SERVICE STATION CHEVRON No. 211577 631 QUEEN ANNE AVENUE NORTH SEATTLE, WASHINGTON	FIGURE 4 GASOLINE-RANGE HYDROCARBONS IN GROUNDWATER - APRIL/MAY 2008	
	FILE NAME: 211577_2008 GW Concentrations.dwg	DATE: 02/24/09



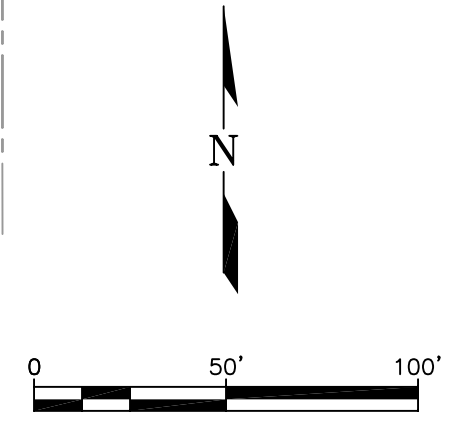
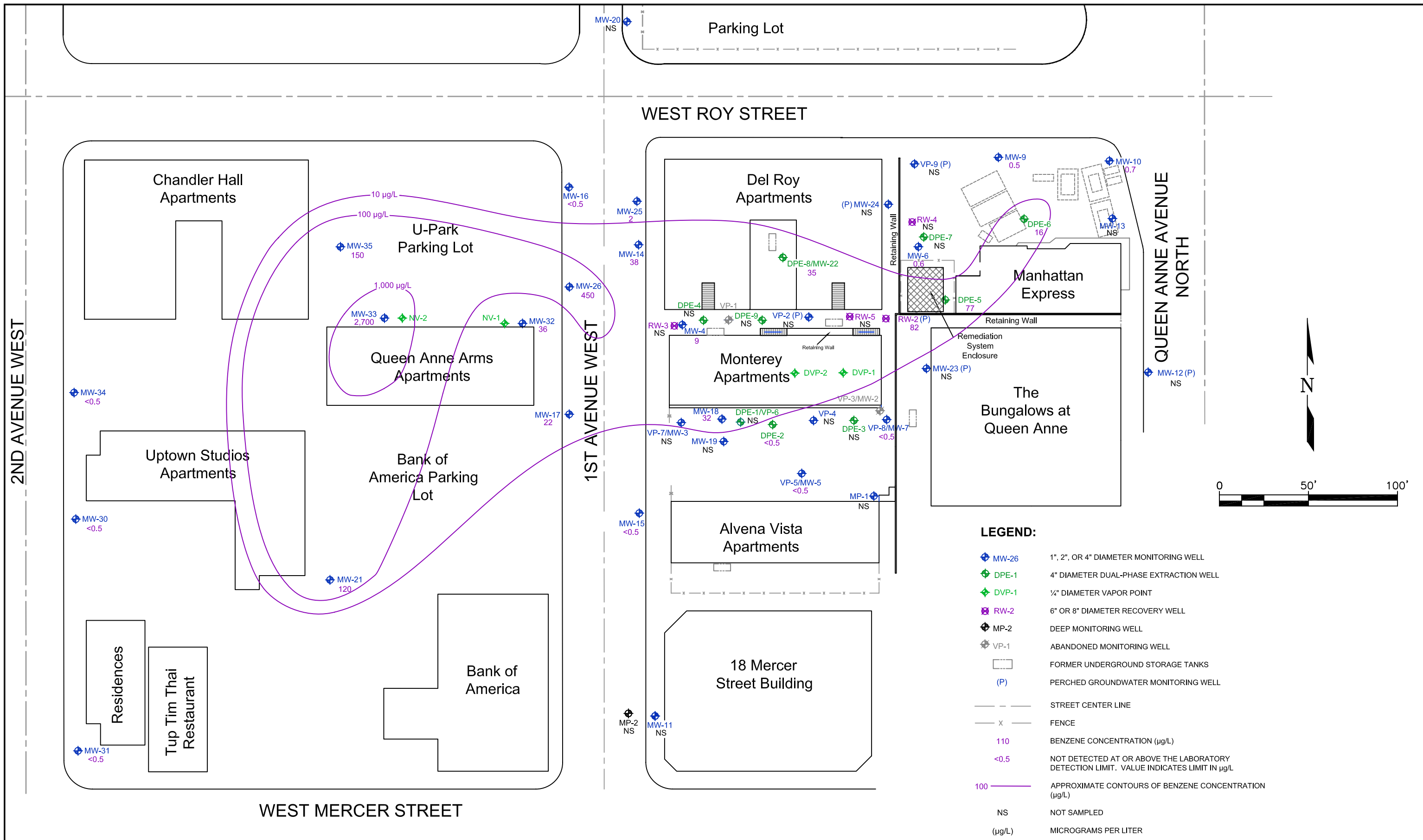
LEGEND:

	MW-26	1", 2", OR 4" DIAMETER MONITORING WELL
	DPE-1	4" DIAMETER DUAL-PHASE EXTRACTION WELL
	DVP-1	1/4" DIAMETER VAPOR POINT
	RW-2	6" OR 8" DIAMETER RECOVERY WELL
	MP-2	DEEP MONITORING WELL
	VP-1	ABANDONED MONITORING WELL
		FORMER UNDERGROUND STORAGE TANKS
	(P)	PERCHED GROUNDWATER MONITORING WELL
		STREET CENTER LINE
	x	FENCE
	190	DIESEL-RANGE HYDROCARBON CONCENTRATION (µg/L)
	<78	NOT DETECTED AT OR ABOVE THE LABORATORY DETECTION LIMIT. VALUE INDICATES LIMIT IN µg/L
	100	APPROXIMATE CONTOURS OF DIESEL-RANGE HYDROCARBONS (µg/L)
	NS	NOT SAMPLED
	µg/L	MICROGRAMS PER LITER



SOURCE: DELTA ENVIRONMENTAL CONSULTANTS, INC. OCTOBER 7, 2002.

FORMER TEXACO SERVICE STATION CHEVRON No. 211577 631 QUEEN ANNE AVENUE NORTH SEATTLE, WASHINGTON	FIGURE 5 DIESEL-RANGE HYDROCARBON CONCENTRATIONS IN GROUNDWATER - APRIL/MAY 2008	
	FILE NAME: 211577_2008 GW Concentrations.dwg	DATE: 02/24/09



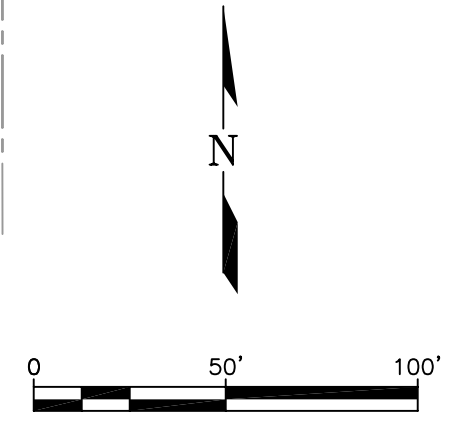
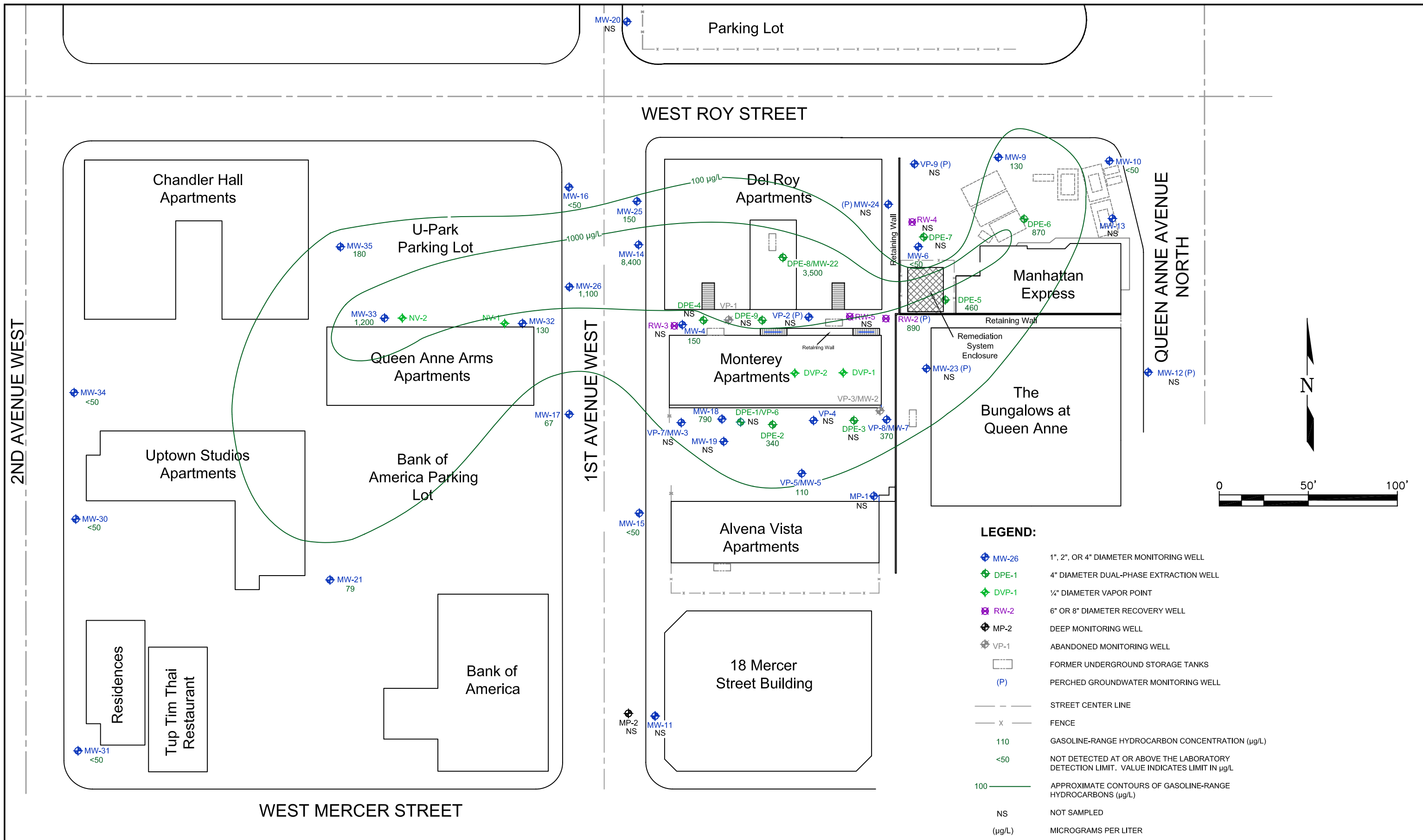
LEGEND:

	MW-26	1", 2", OR 4" DIAMETER MONITORING WELL
	DPE-1	4" DIAMETER DUAL-PHASE EXTRACTION WELL
	DVP-1	1/4" DIAMETER VAPOR POINT
	RW-2	6" OR 8" DIAMETER RECOVERY WELL
	MP-2	DEEP MONITORING WELL
	VP-1	ABANDONED MONITORING WELL
		FORMER UNDERGROUND STORAGE TANKS
	(P)	PERCHED GROUNDWATER MONITORING WELL
		STREET CENTER LINE
		FENCE
	110	BENZENE CONCENTRATION (µg/L)
	<0.5	NOT DETECTED AT OR ABOVE THE LABORATORY DETECTION LIMIT. VALUE INDICATES LIMIT IN µg/L
	100	APPROXIMATE CONTOURS OF BENZENE CONCENTRATION (µg/L)
	NS	NOT SAMPLED
	(µg/L)	MICROGRAMS PER LITER



SOURCE: DELTA ENVIRONMENTAL CONSULTANTS, INC. OCTOBER 7, 2002.

FORMER TEXACO SERVICE STATION CHEVRON No. 211577 631 QUEEN ANNE AVENUE NORTH SEATTLE, WASHINGTON	FIGURE 6 BENZENE CONCENTRATIONS IN GROUNDWATER - NOVEMBER 2008	
	FILE NAME: 211577_2008 GW Concentrations.dwg	DATE: 02/24/09



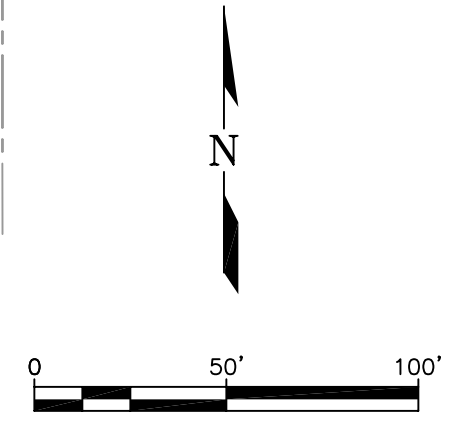
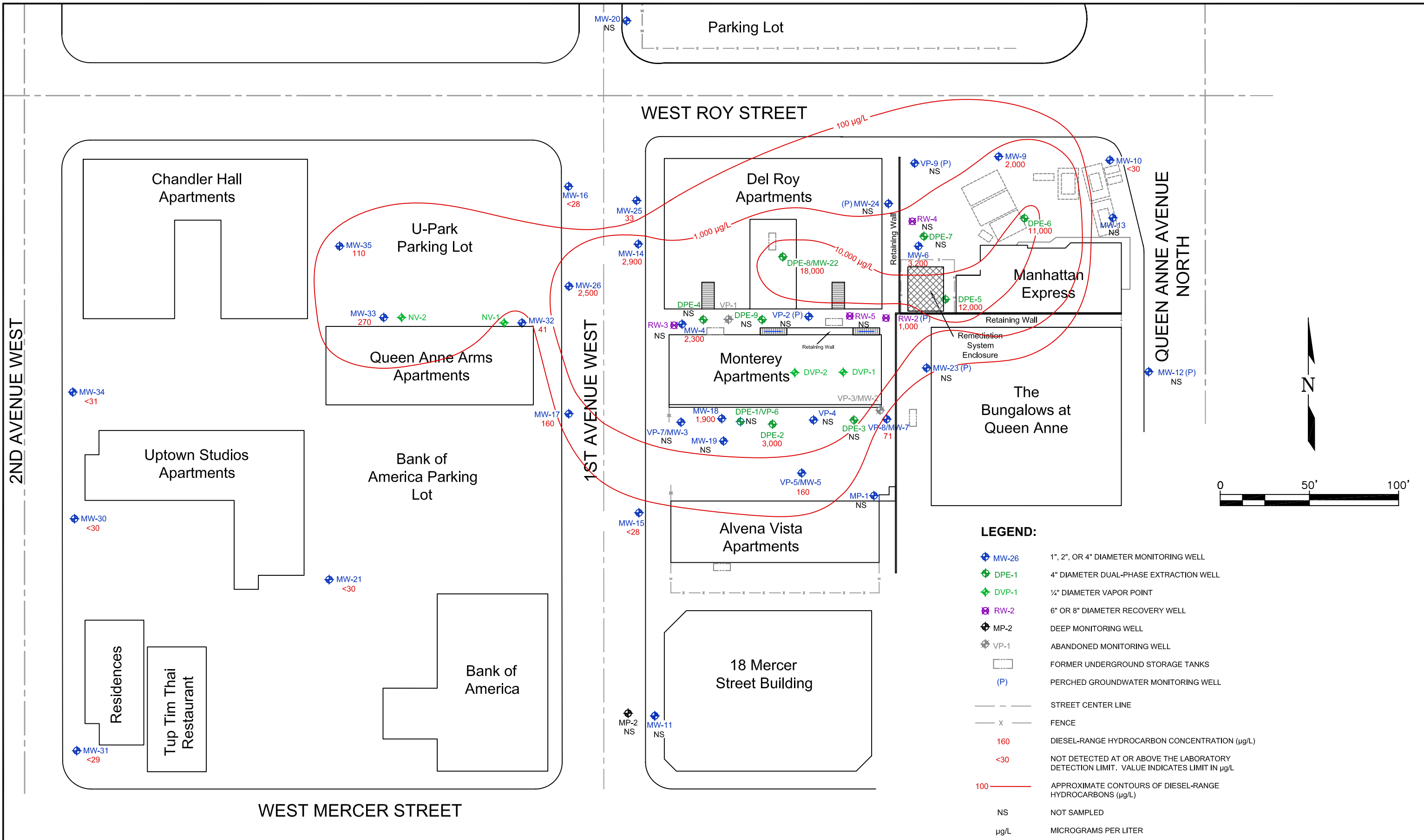
LEGEND:

	MW-26	1", 2", OR 4" DIAMETER MONITORING WELL
	DPE-1	4" DIAMETER DUAL-PHASE EXTRACTION WELL
	DVP-1	1/4" DIAMETER VAPOR POINT
	RW-2	6" OR 8" DIAMETER RECOVERY WELL
	MP-2	DEEP MONITORING WELL
	VP-1	ABANDONED MONITORING WELL
		FORMER UNDERGROUND STORAGE TANKS
	(P)	PERCHED GROUNDWATER MONITORING WELL
		STREET CENTER LINE
	x	FENCE
	100	GASOLINE-RANGE HYDROCARBON CONCENTRATION (µg/L)
	<50	NOT DETECTED AT OR ABOVE THE LABORATORY DETECTION LIMIT. VALUE INDICATES LIMIT IN µg/L
	100	APPROXIMATE CONTOURS OF GASOLINE-RANGE HYDROCARBONS (µg/L)
	NS	NOT SAMPLED
	(µg/L)	MICROGRAMS PER LITER



SOURCE: DELTA ENVIRONMENTAL CONSULTANTS, INC. OCTOBER 7, 2002.

FORMER TEXACO SERVICE STATION CHEVRON No. 211577 631 QUEEN ANNE AVENUE NORTH SEATTLE, WASHINGTON	FIGURE 7 GASOLINE-RANGE HYDROCARBON CONCENTRATIONS IN GROUNDWATER - NOVEMBER 2008	
	FILE NAME: 211577_2008 GW Concentrations.dwg	DATE: 02/24/09



LEGEND:

	MW-26	1", 2", OR 4" DIAMETER MONITORING WELL
	DPE-1	4" DIAMETER DUAL-PHASE EXTRACTION WELL
	DVP-1	1/4" DIAMETER VAPOR POINT
	RW-2	6" OR 8" DIAMETER RECOVERY WELL
	MP-2	DEEP MONITORING WELL
	VP-1	ABANDONED MONITORING WELL
		FORMER UNDERGROUND STORAGE TANKS
	(P)	PERCHED GROUNDWATER MONITORING WELL
		STREET CENTER LINE
		FENCE
	160	DIESEL-RANGE HYDROCARBON CONCENTRATION (µg/L)
	<30	NOT DETECTED AT OR ABOVE THE LABORATORY DETECTION LIMIT. VALUE INDICATES LIMIT IN µg/L
	100	APPROXIMATE CONTOURS OF DIESEL-RANGE HYDROCARBONS (µg/L)
	NS	NOT SAMPLED
	µg/L	MICROGRAMS PER LITER



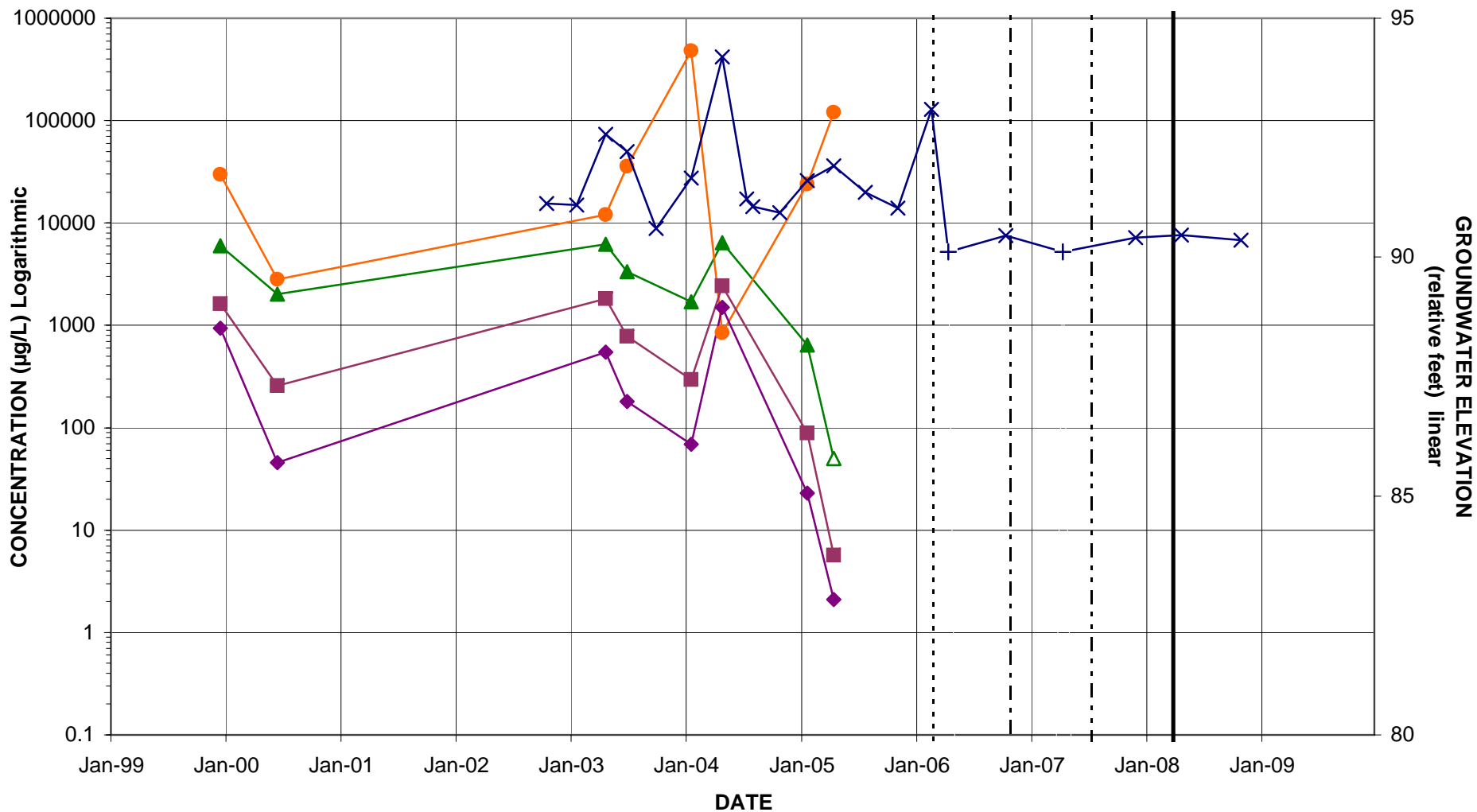
SOURCE: DELTA ENVIRONMENTAL CONSULTANTS, INC. OCTOBER 7, 2002.

FORMER TEXACO SERVICE STATION CHEVRON No. 211577 631 QUEEN ANNE AVENUE NORTH SEATTLE, WASHINGTON	FIGURE 8 DIESEL-RANGE HYDROCARBON CONCENTRATIONS IN GROUNDWATER - NOVEMBER 2008	
	FILE NAME: 211577_2008 GW Concentrations.dwg	DATE: 02/24/09

Attachment A:
Chemical Concentration Charts

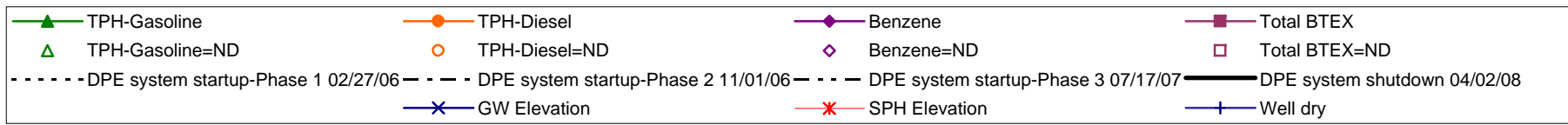
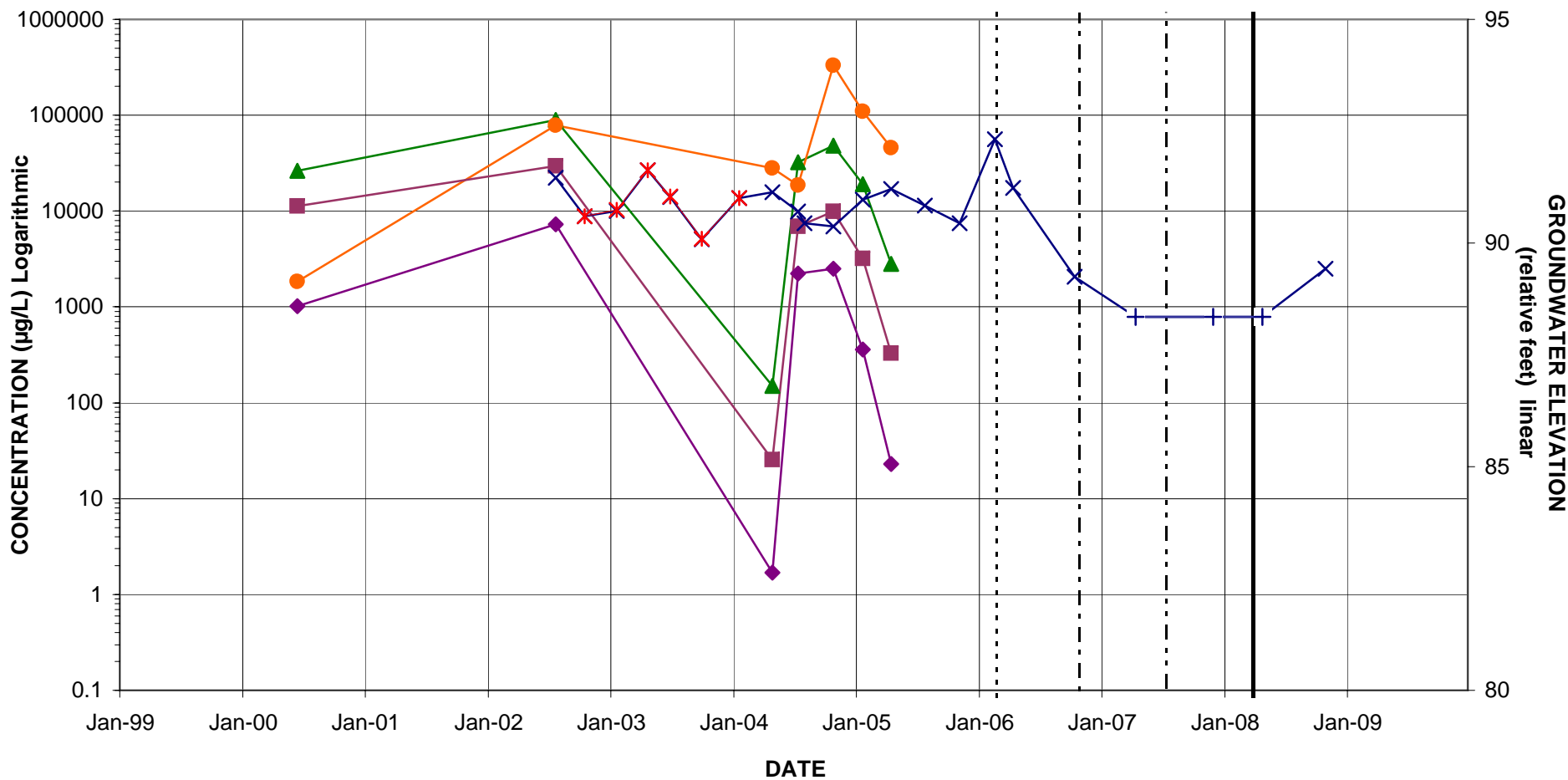
**Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington
Monitoring Well VP-2**

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



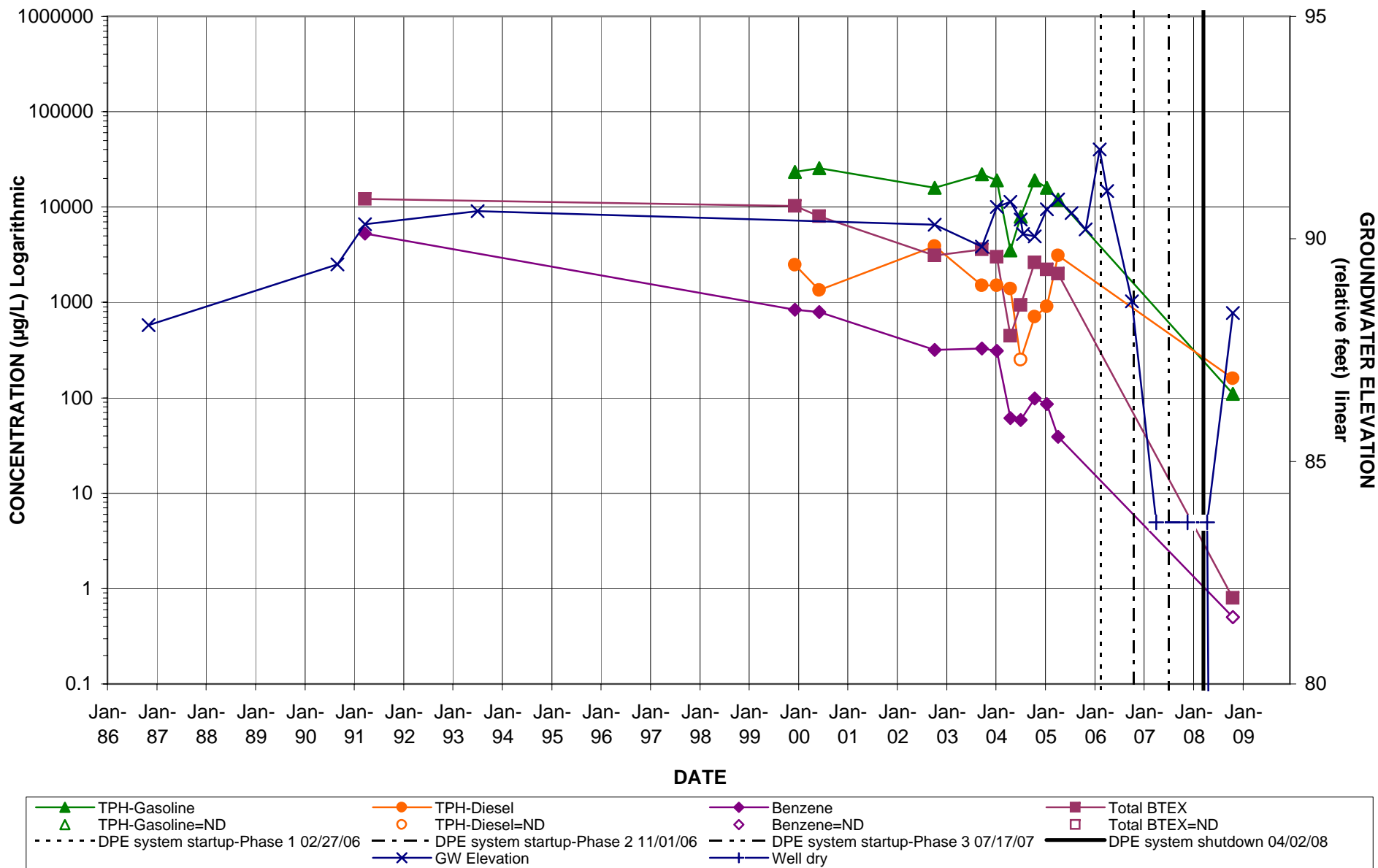
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well VP-4

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



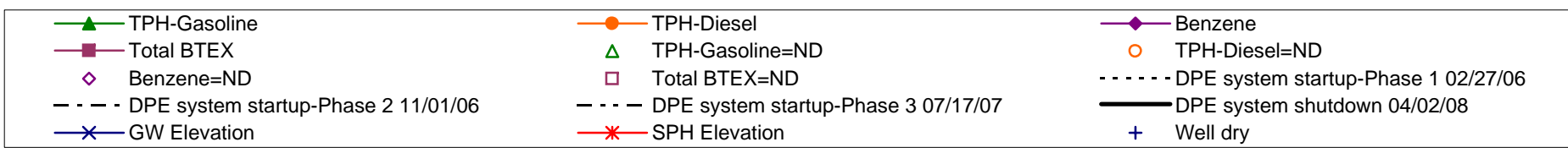
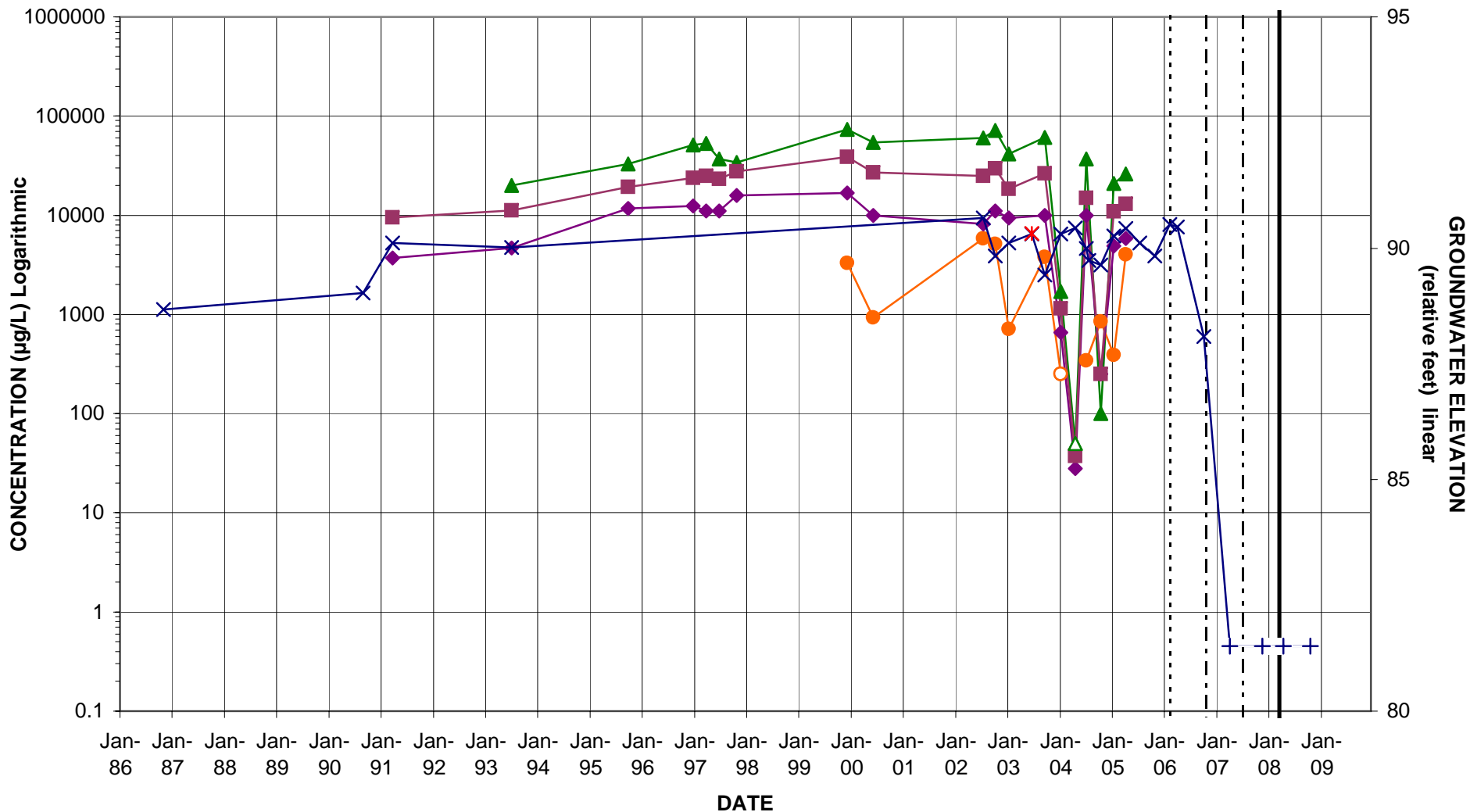
**Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington
Monitoring Well VP-5(MW-5)**

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



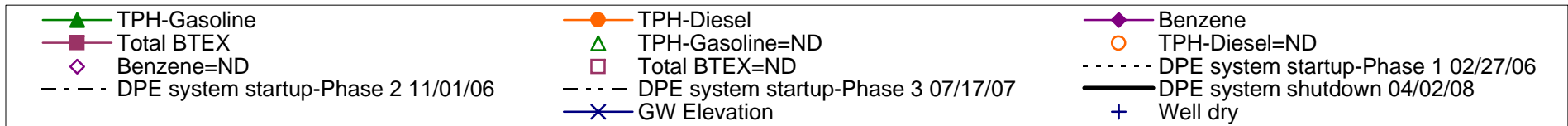
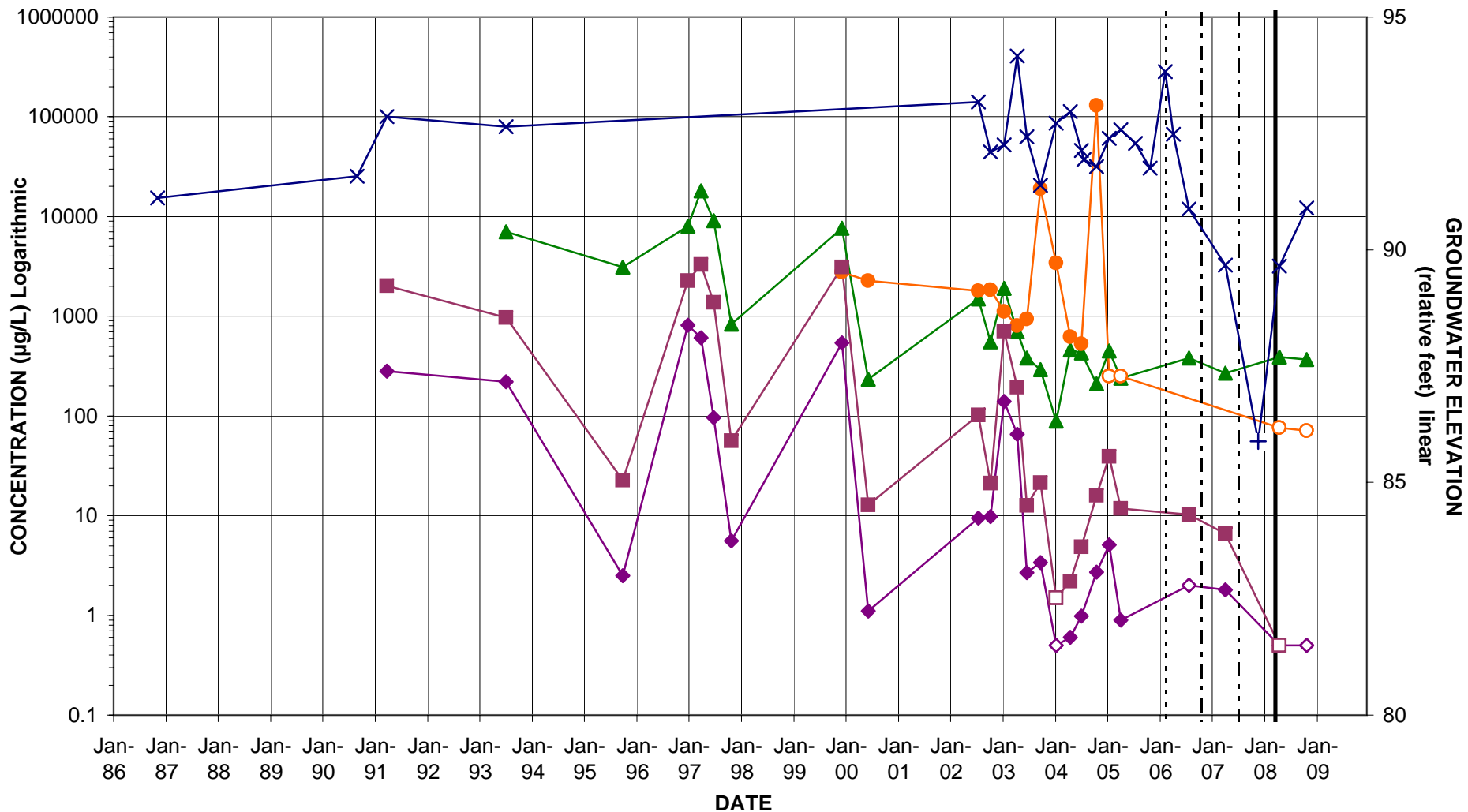
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well VP-7(MW-3)

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



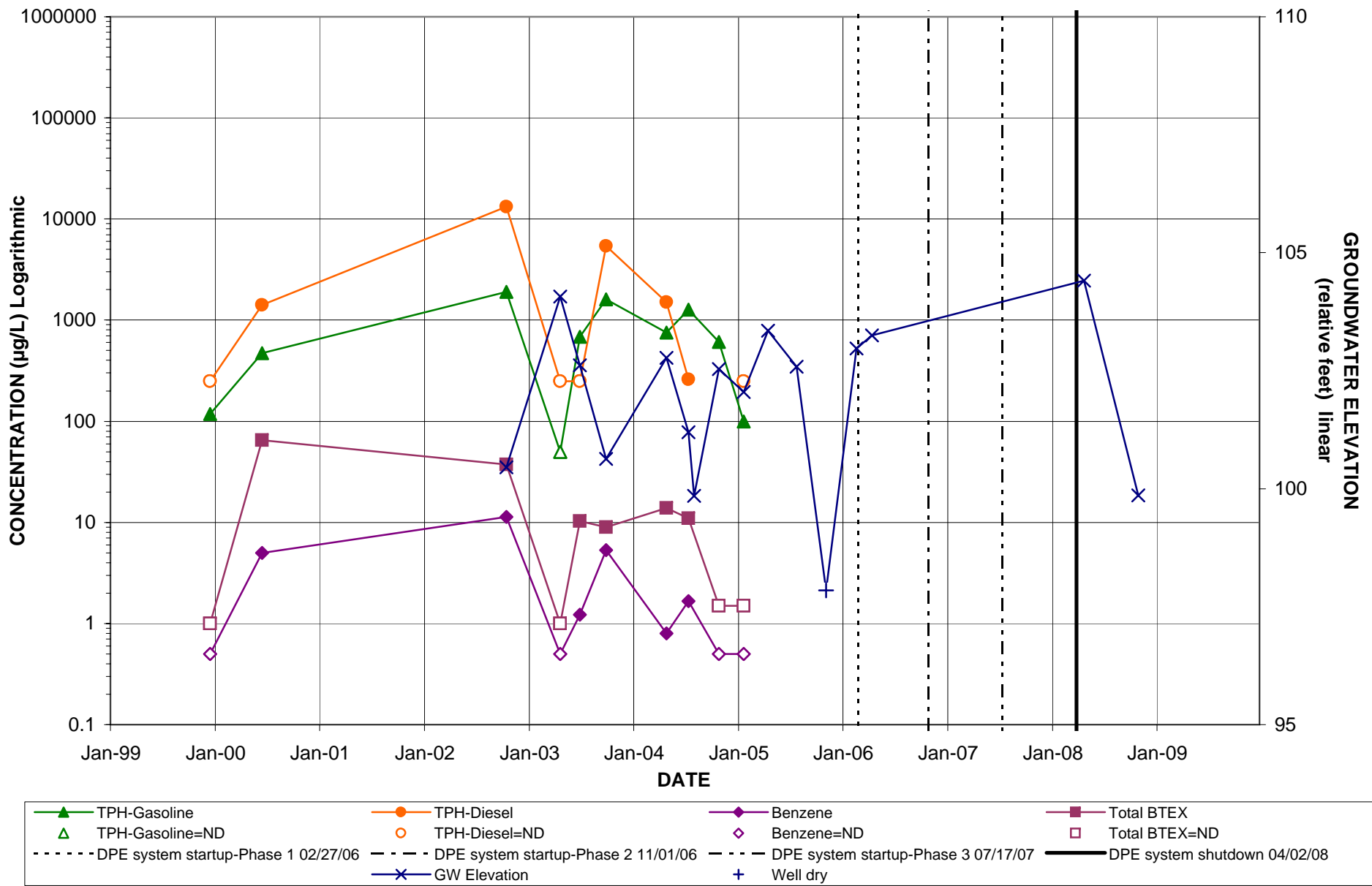
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well VP-8(MW-7)

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



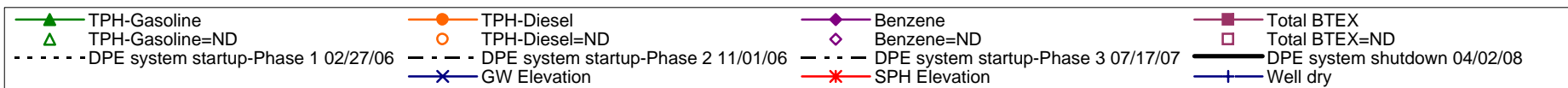
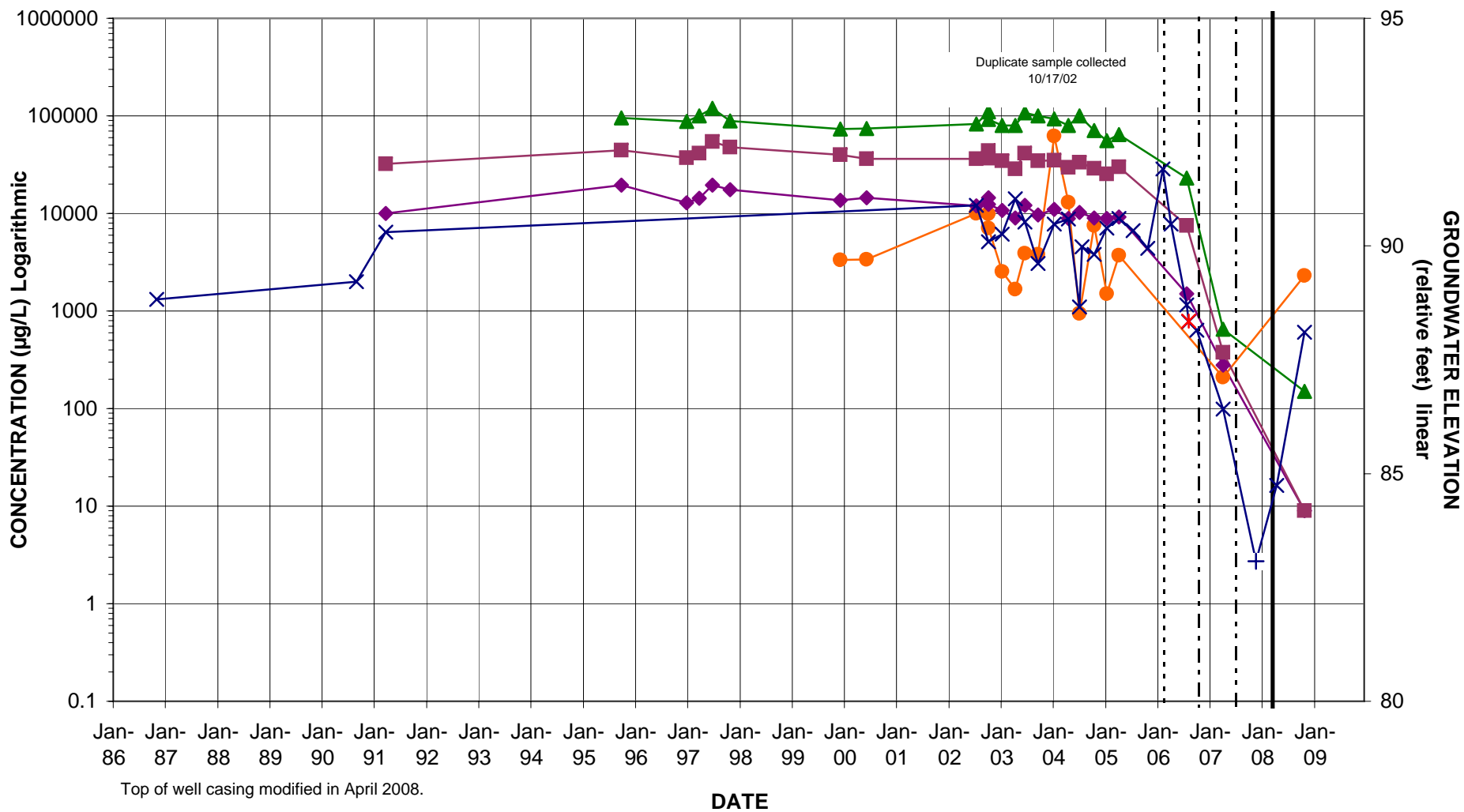
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well VP-9 (Perched Well)

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



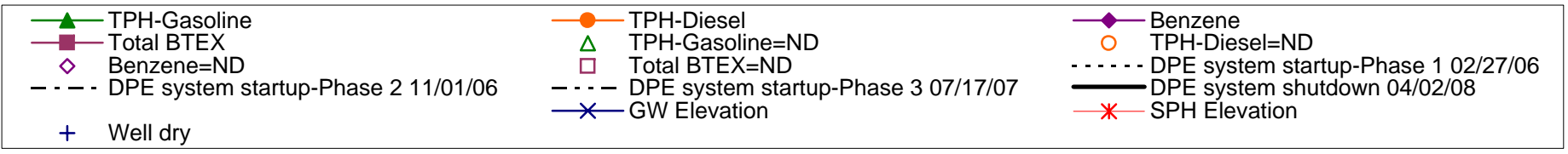
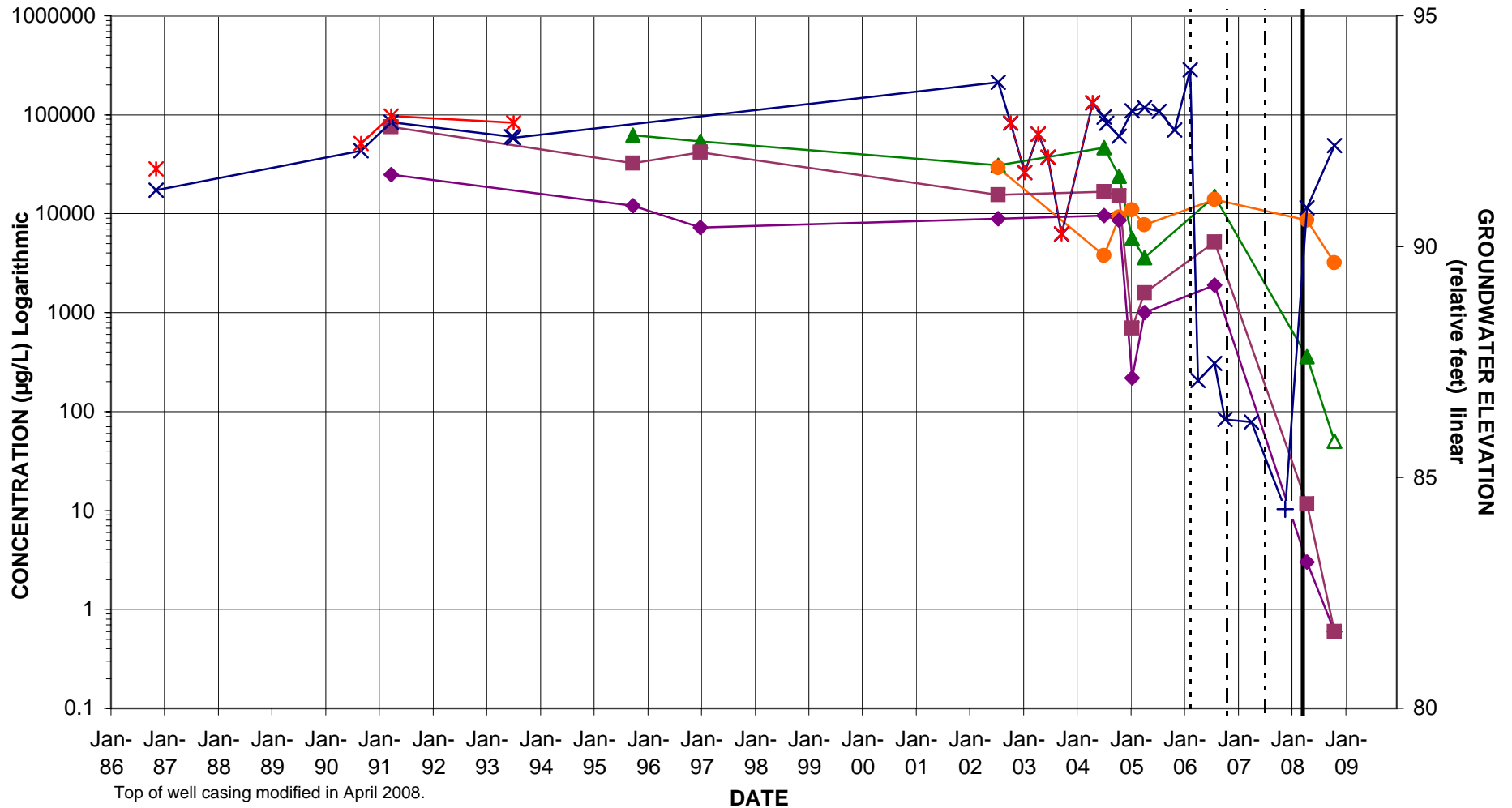
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-4

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



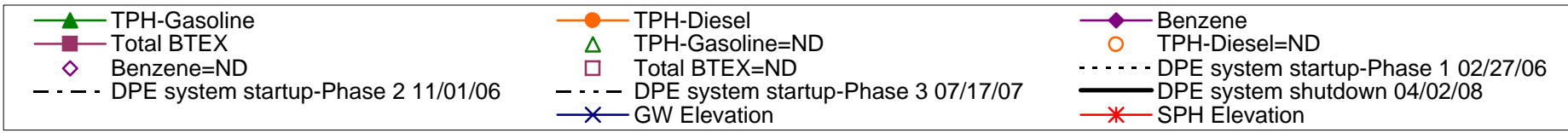
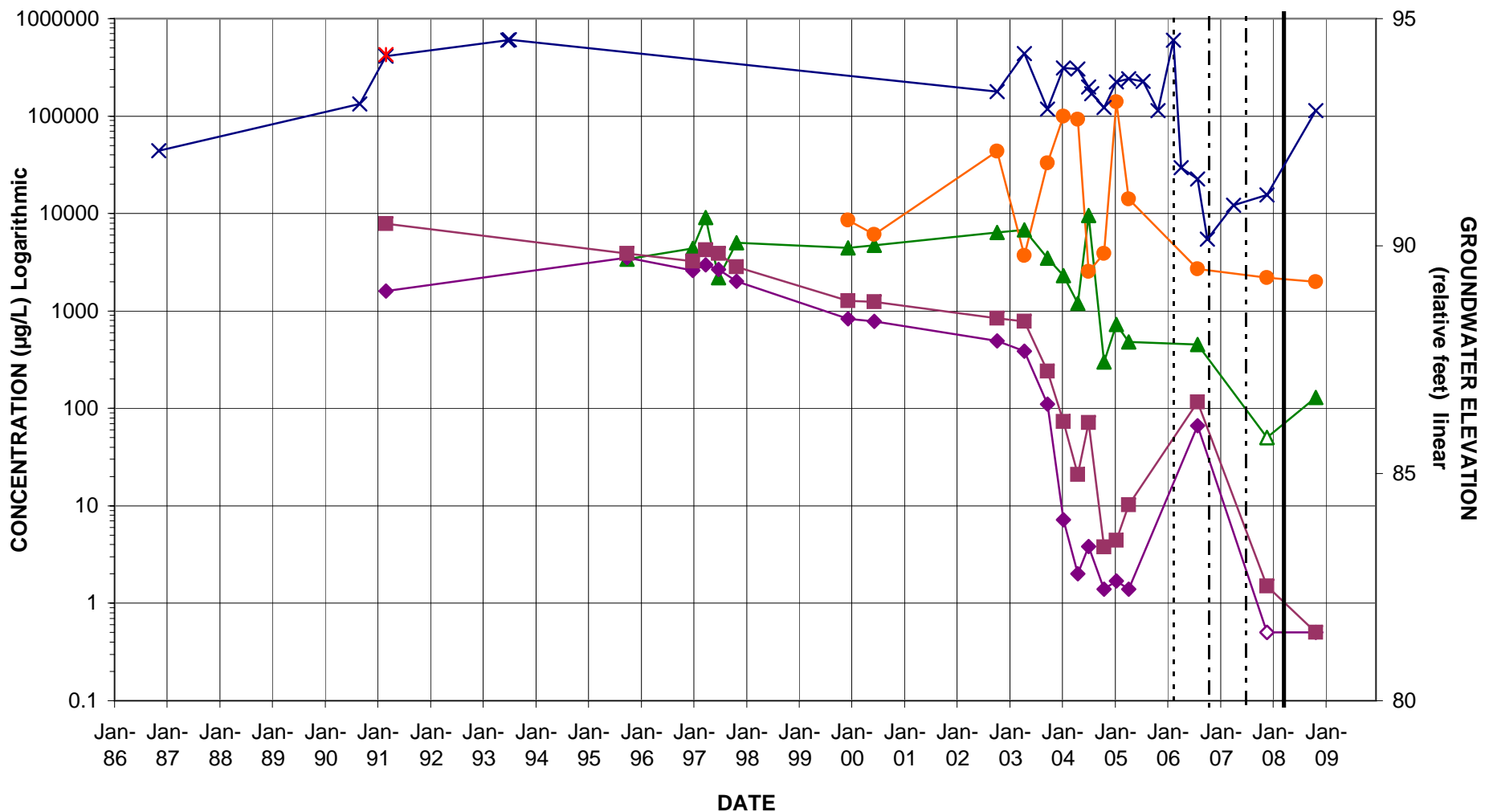
**Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington
Monitoring Well MW-6**

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



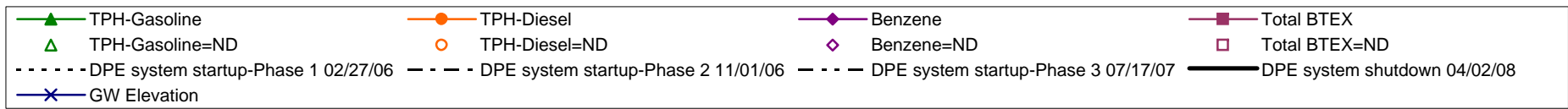
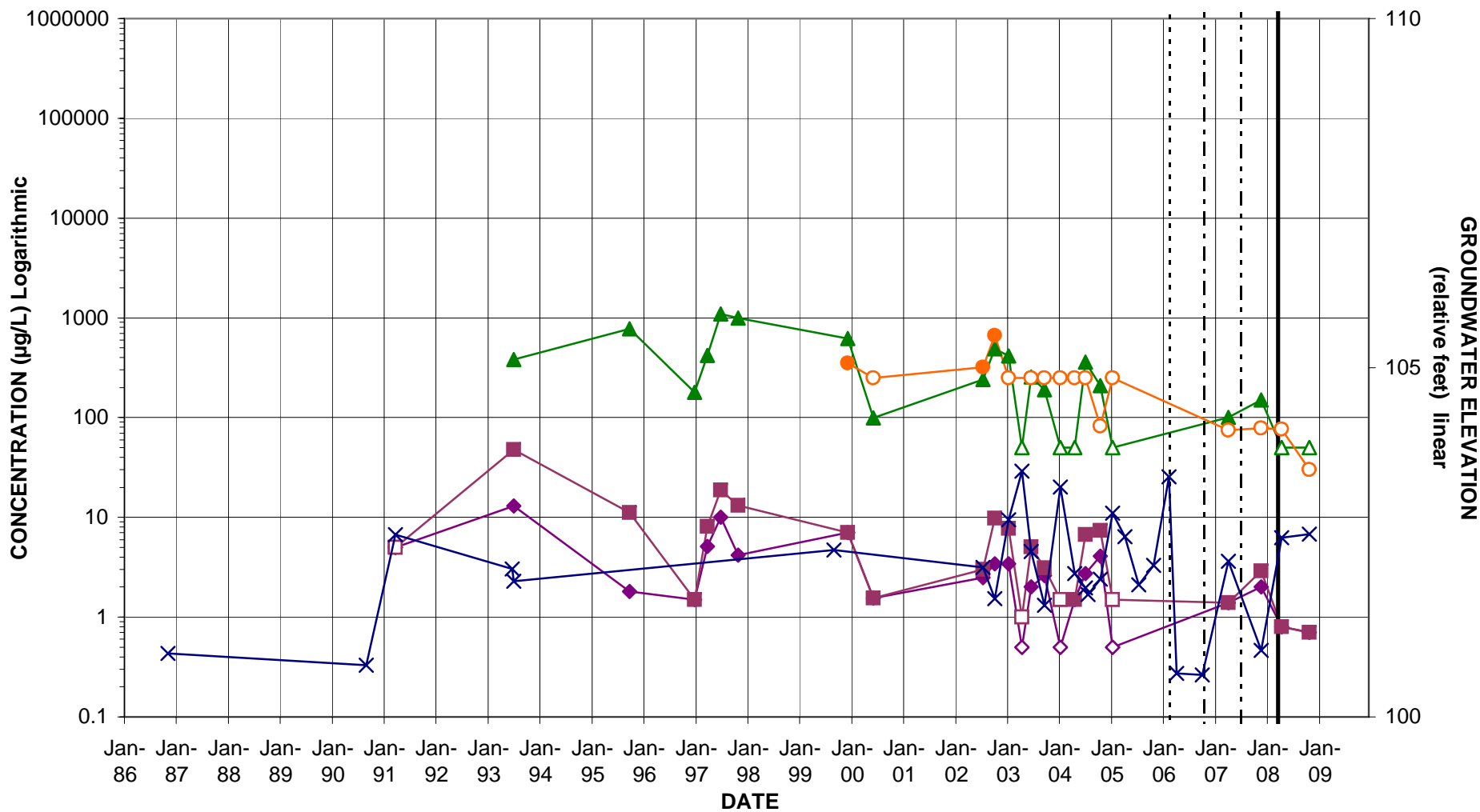
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-9

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



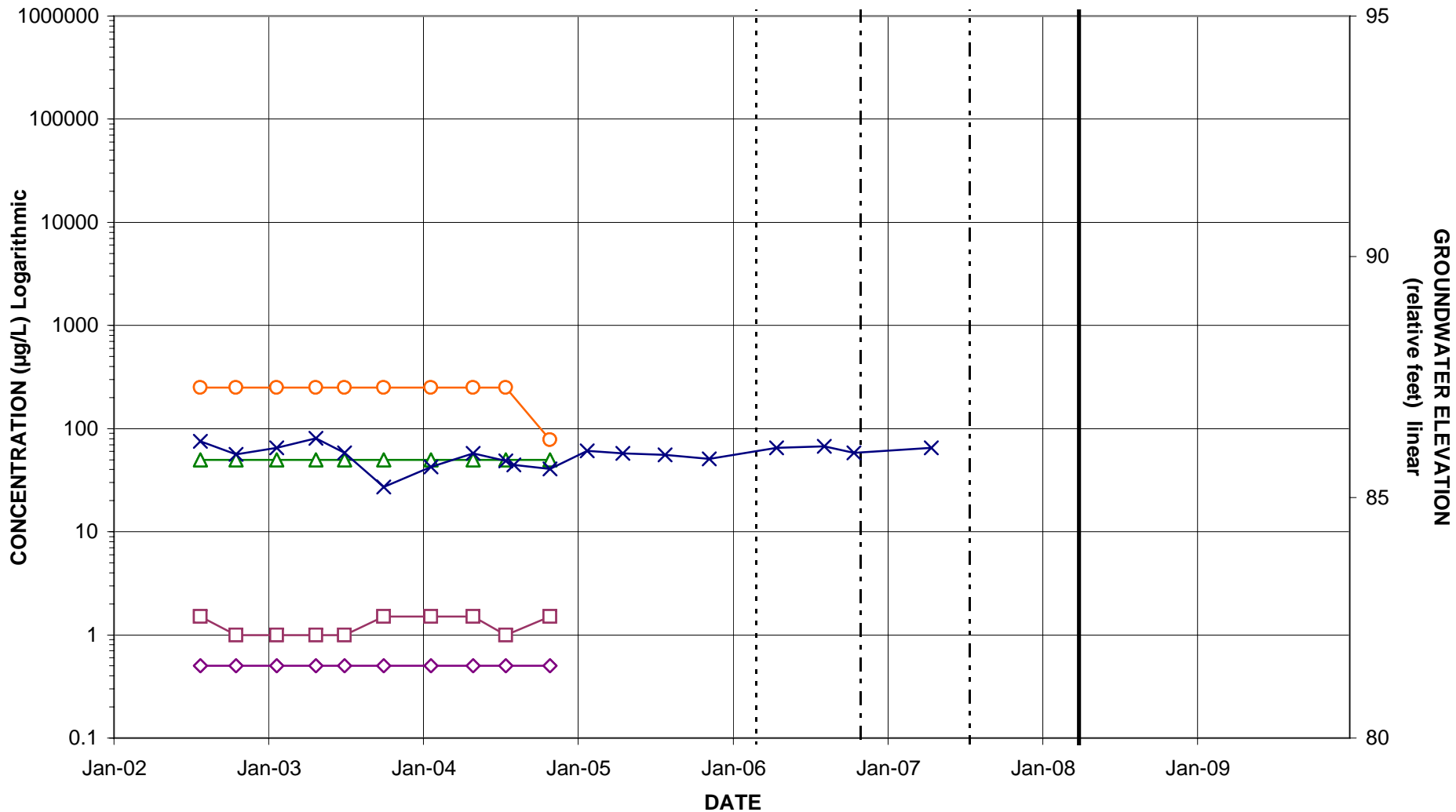
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-10

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



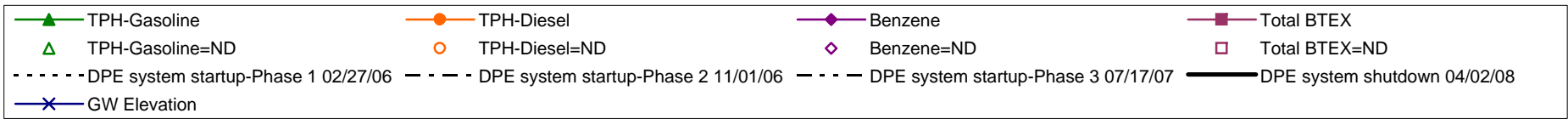
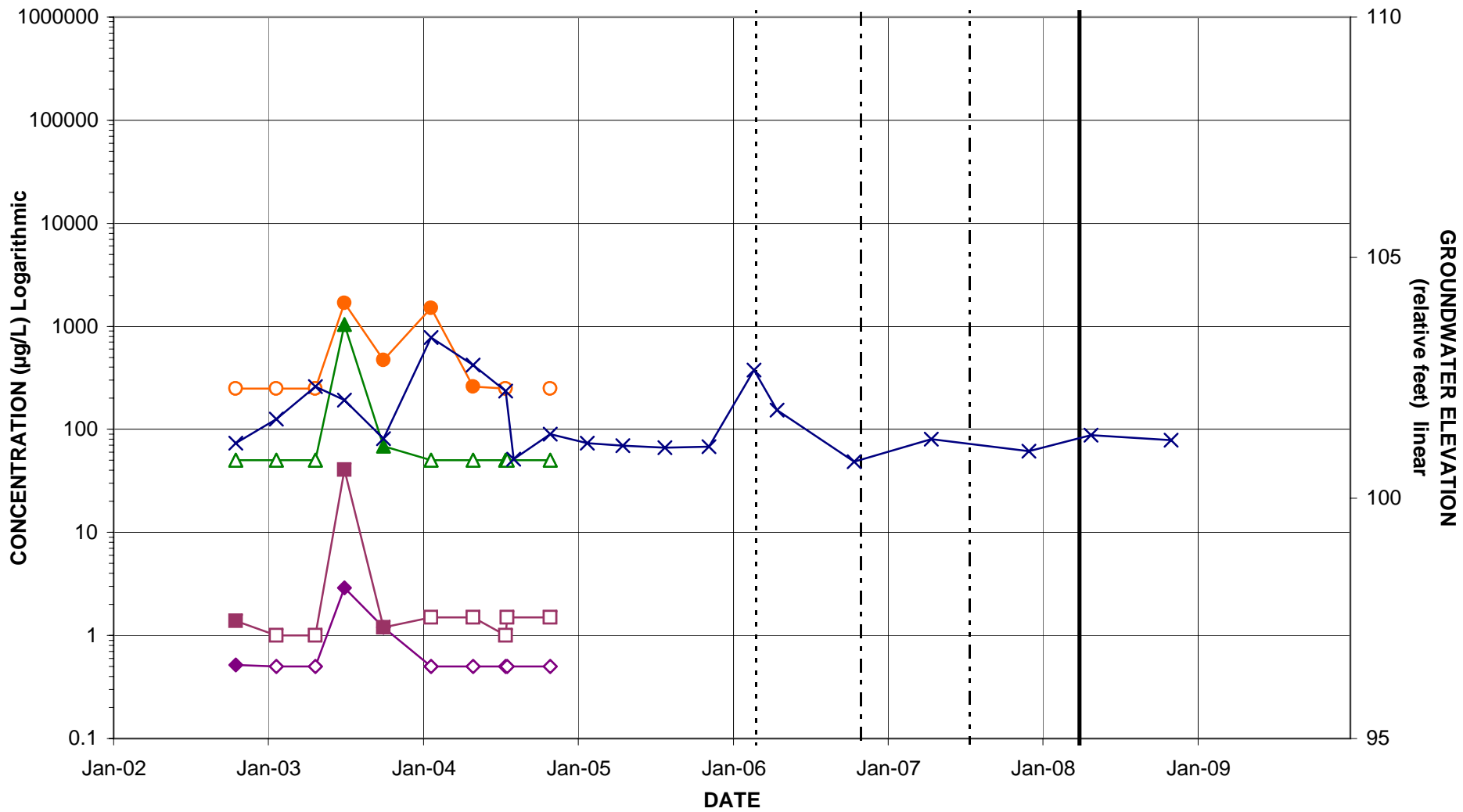
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-11

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



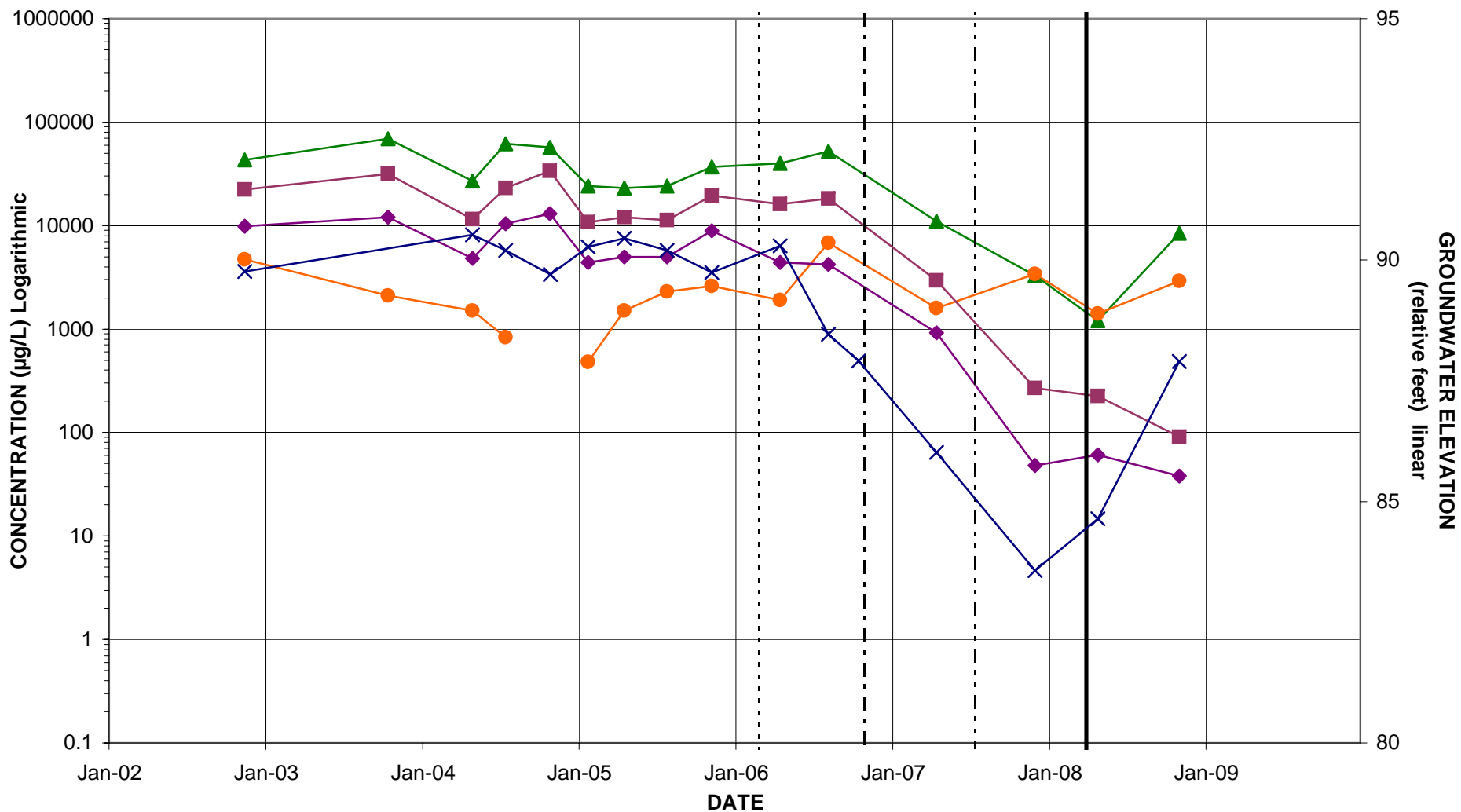
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-12 (Perched Well)

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



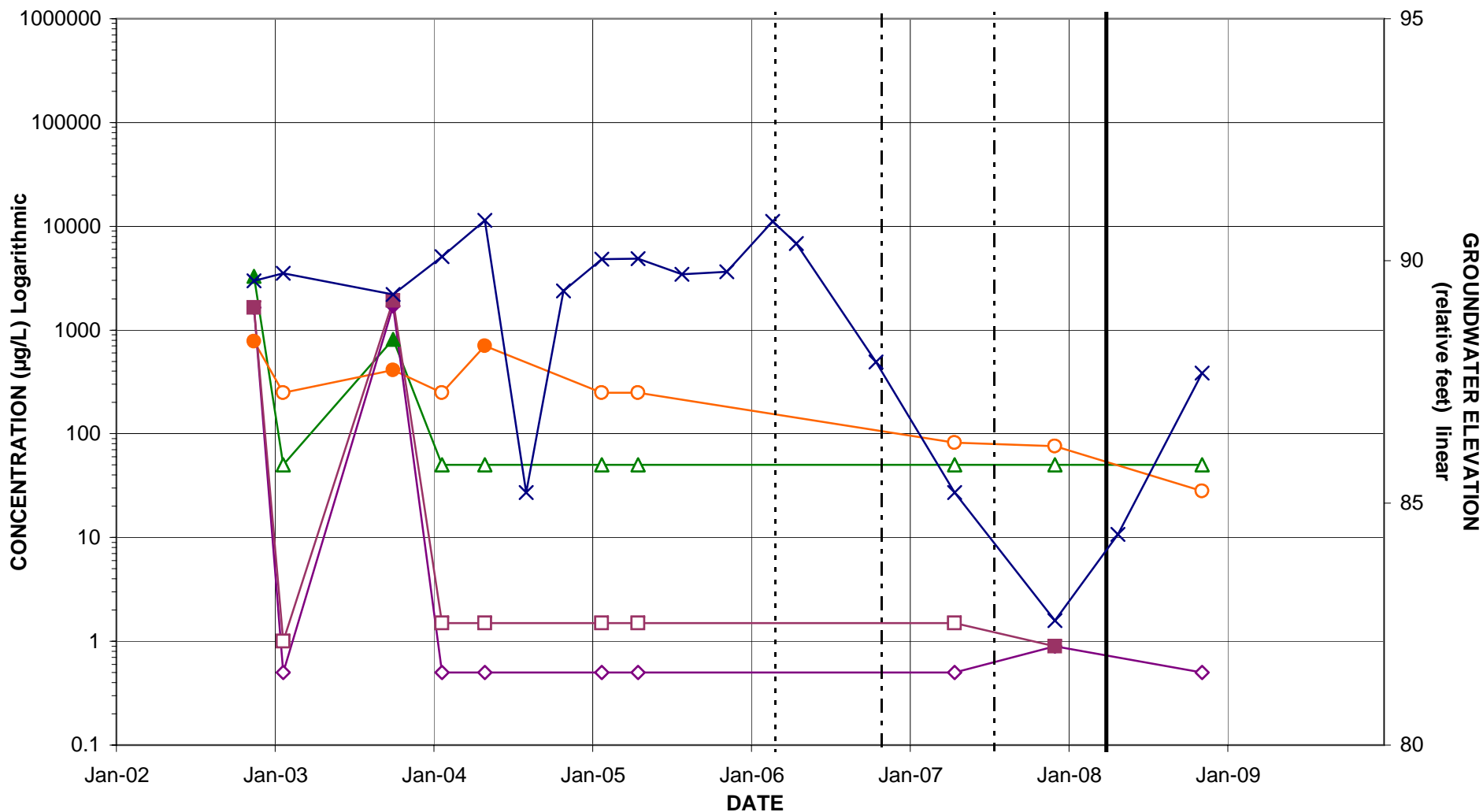
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-14

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



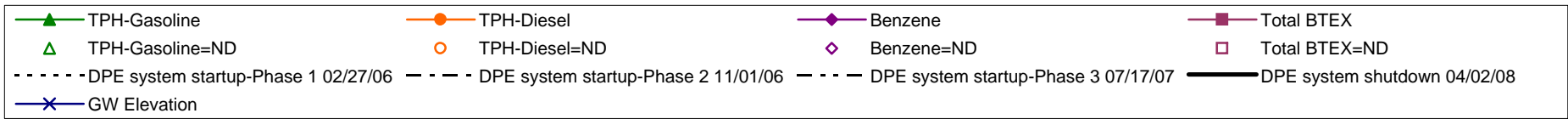
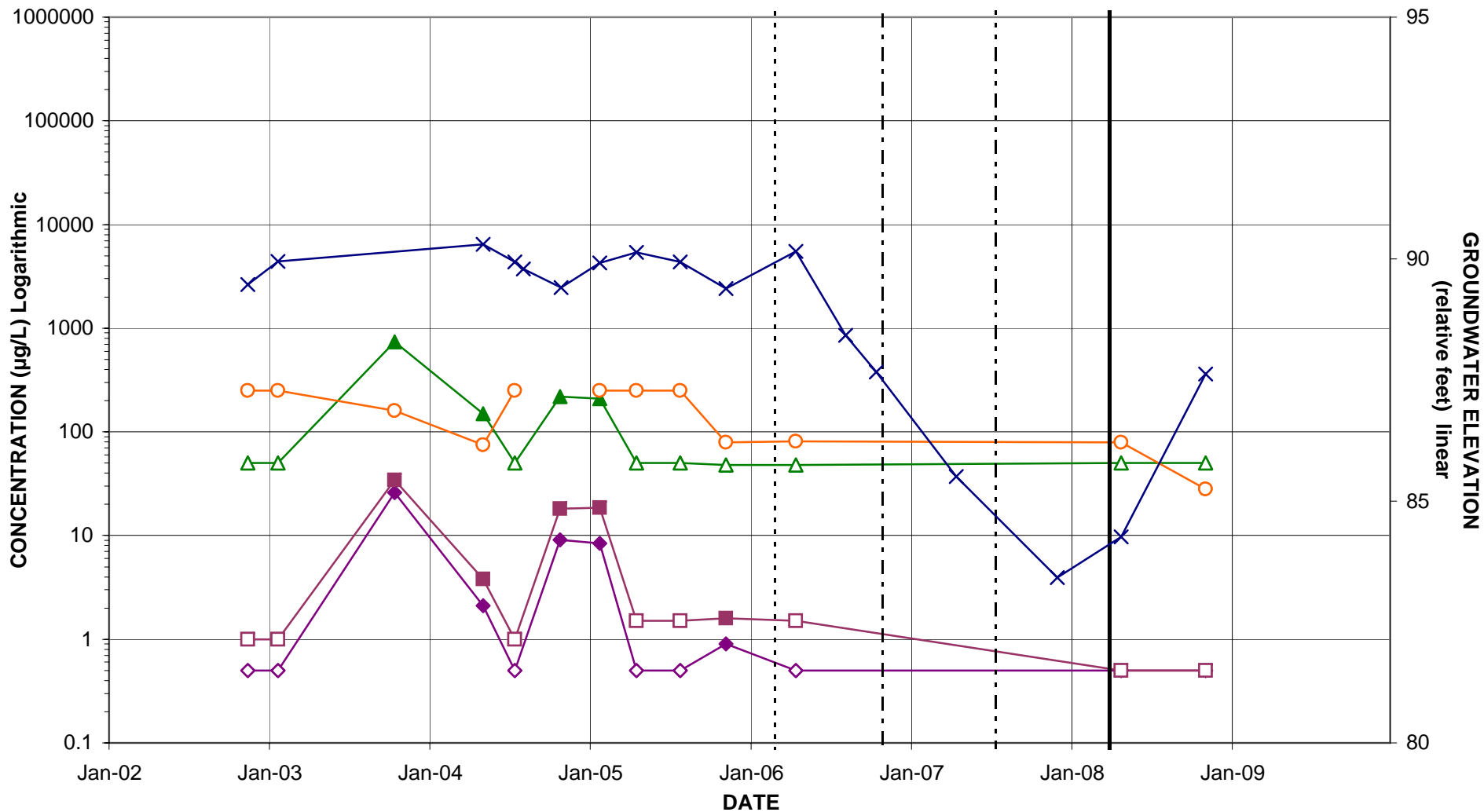
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-15

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



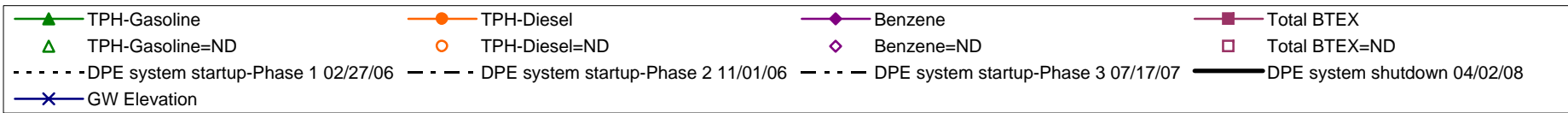
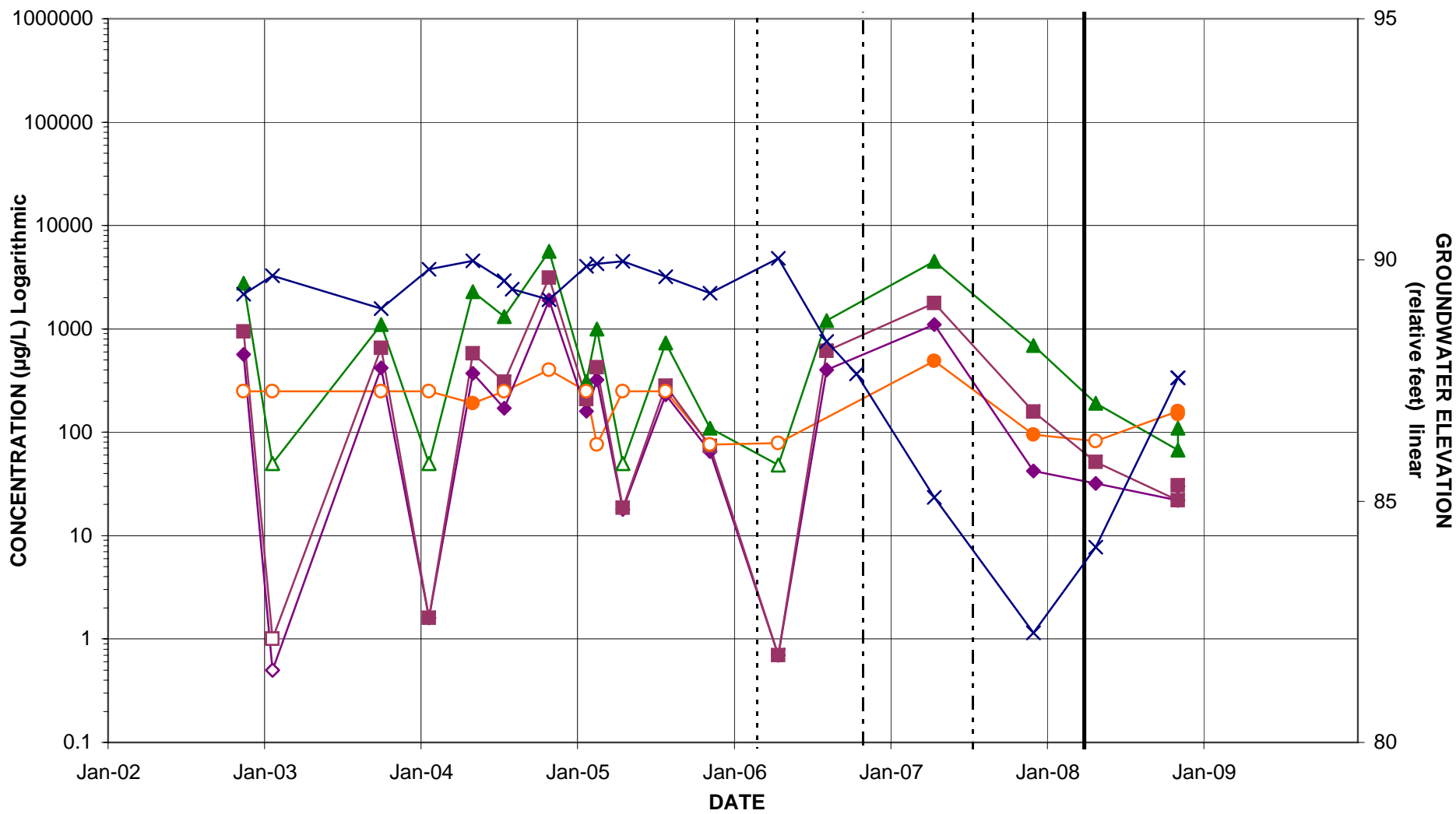
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-16

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



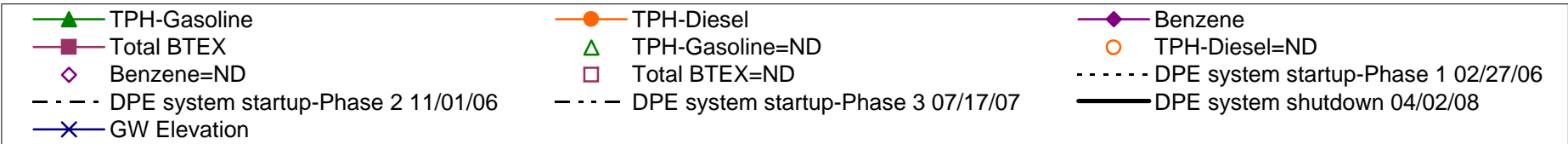
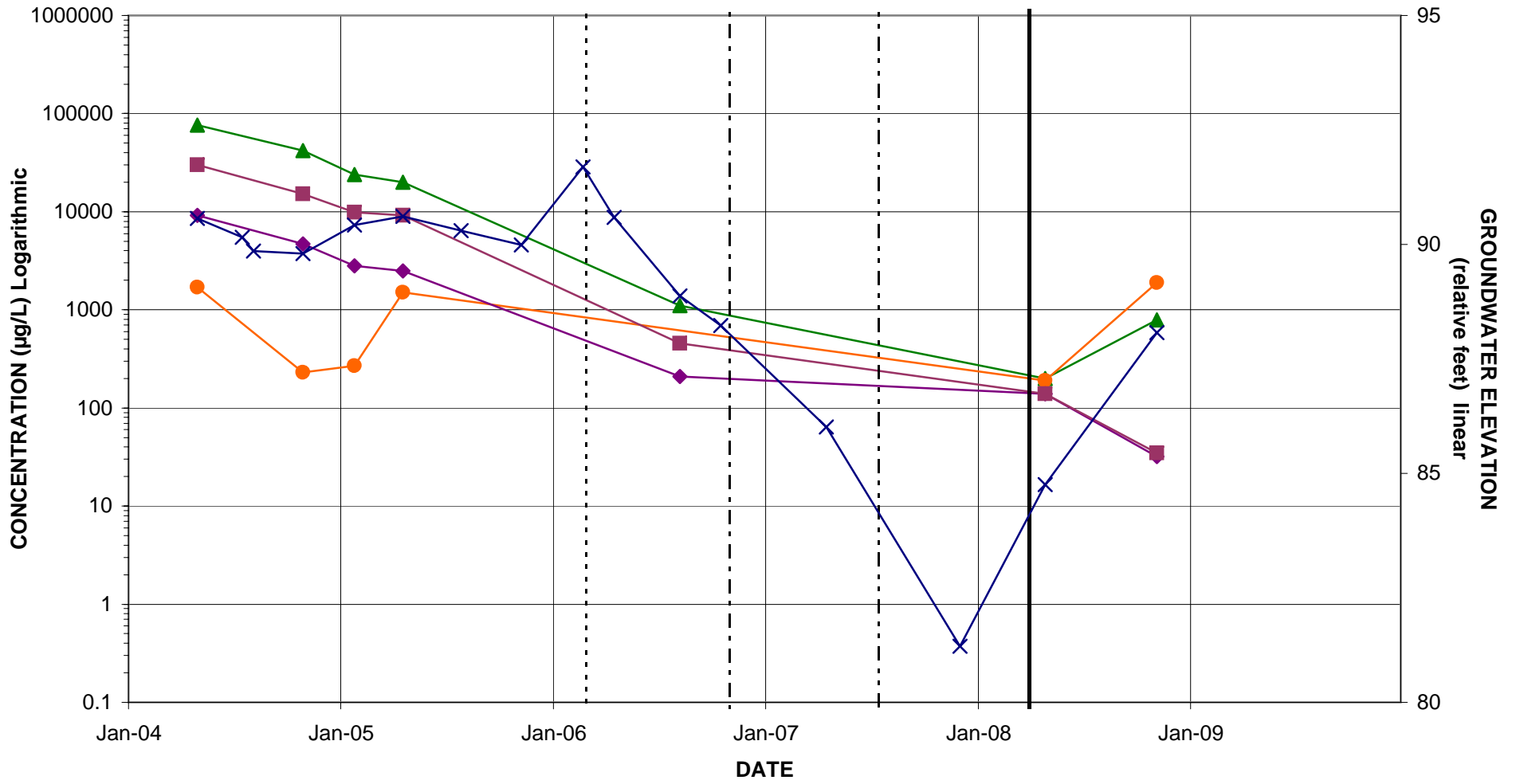
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-17

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



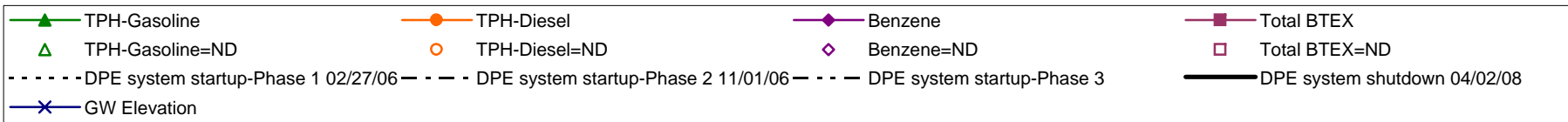
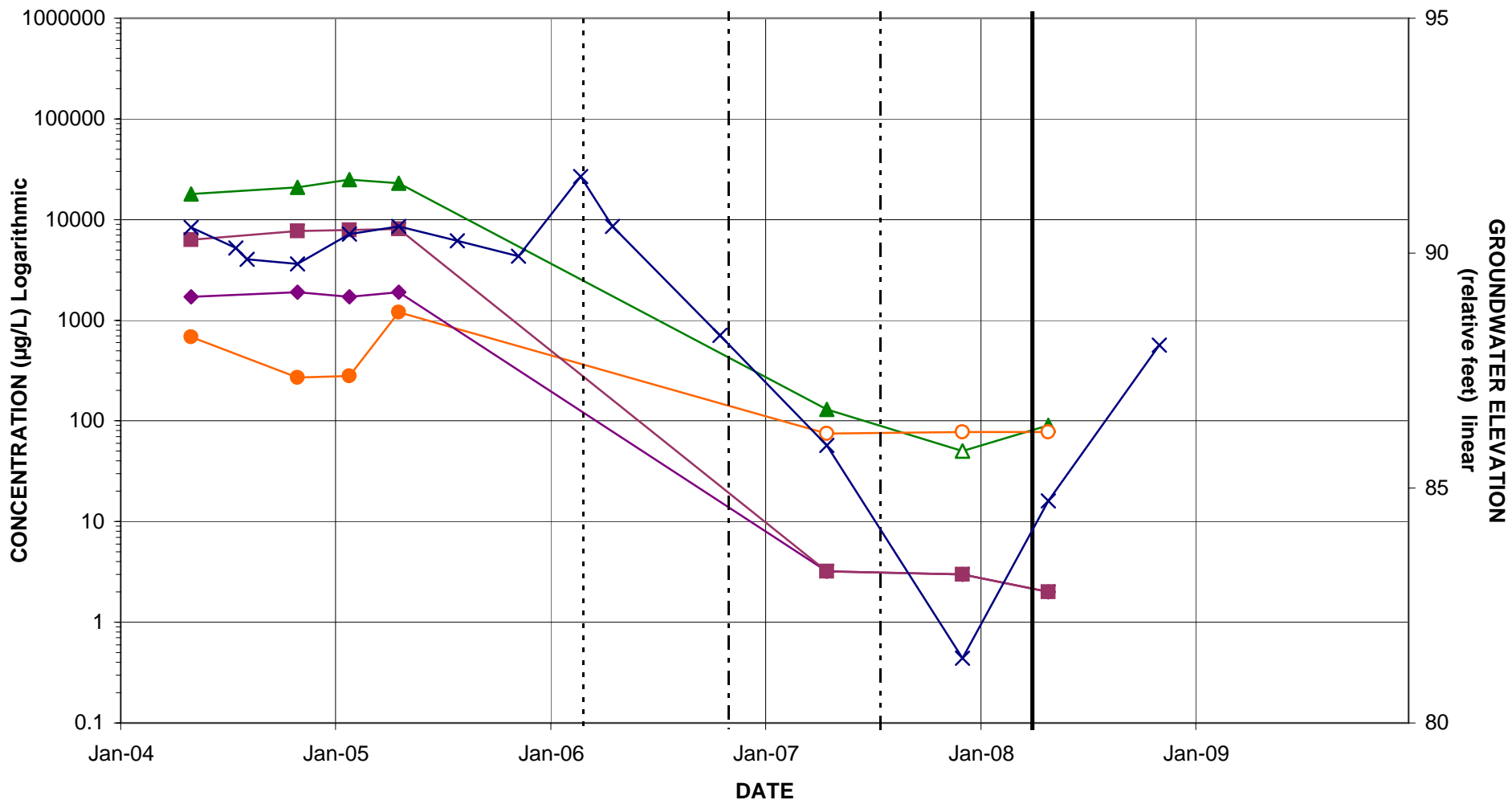
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-18

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



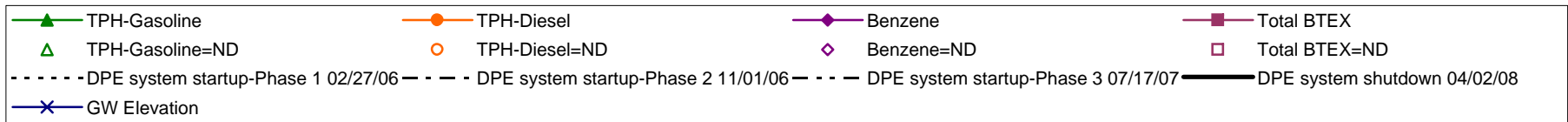
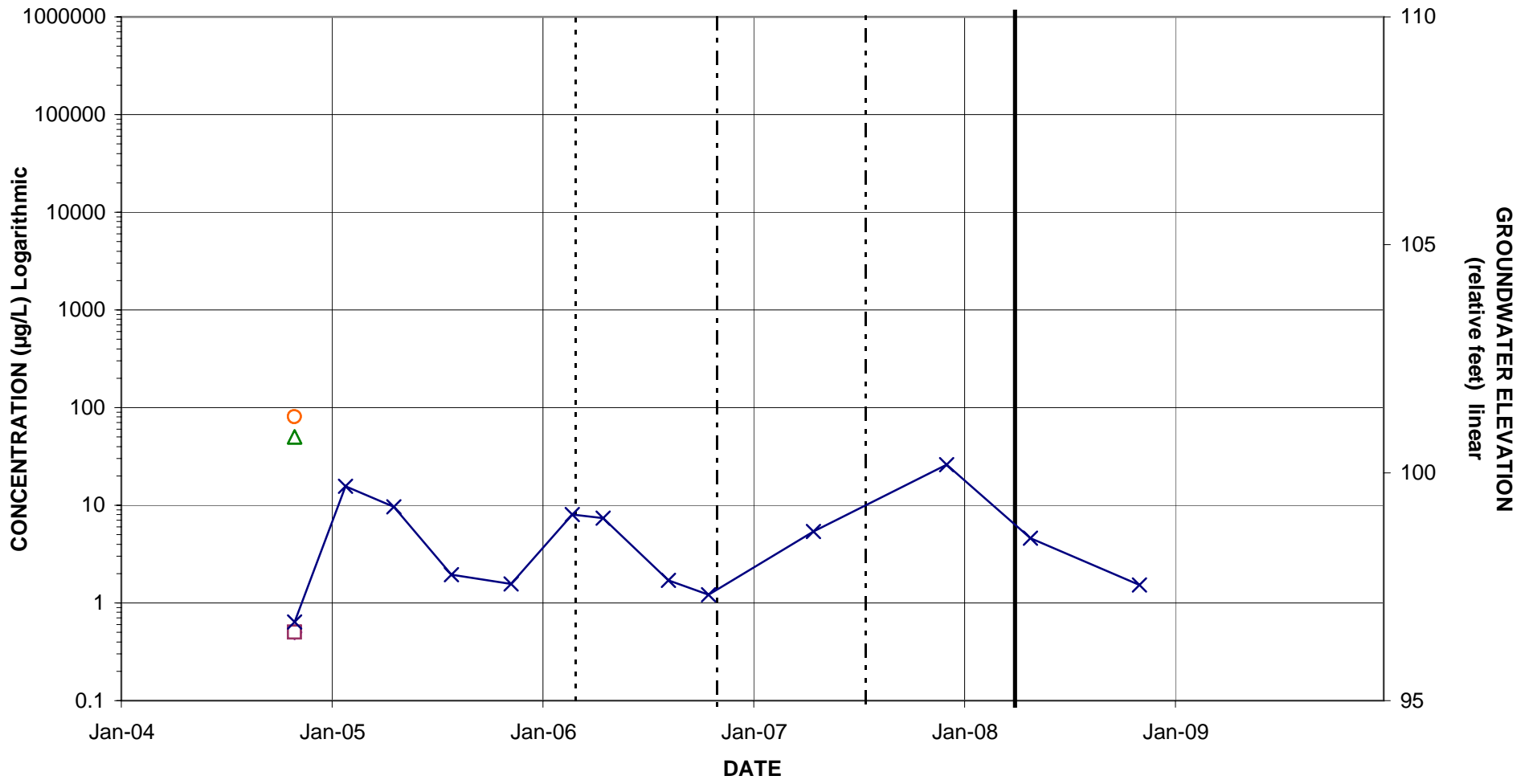
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-19

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



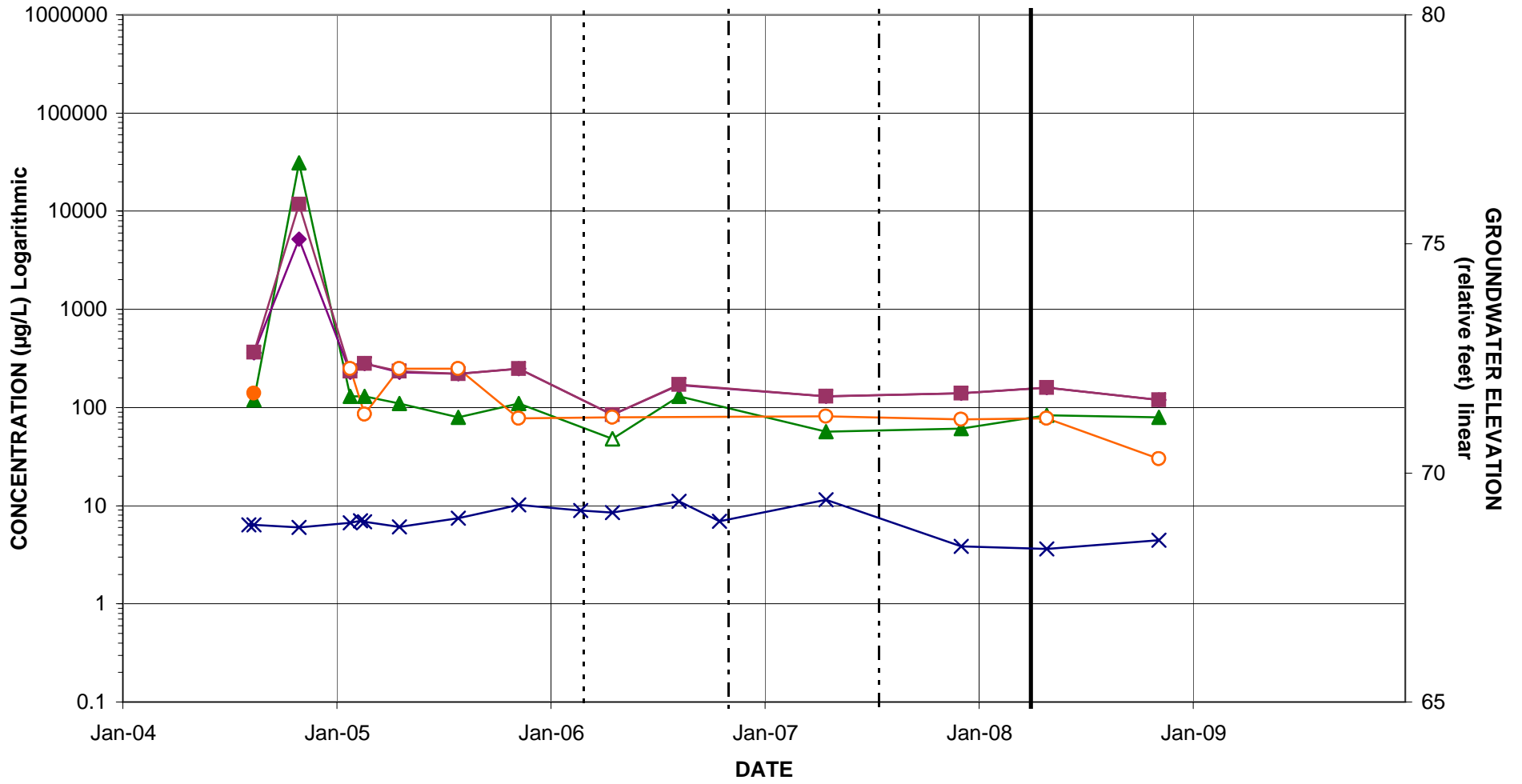
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-20

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



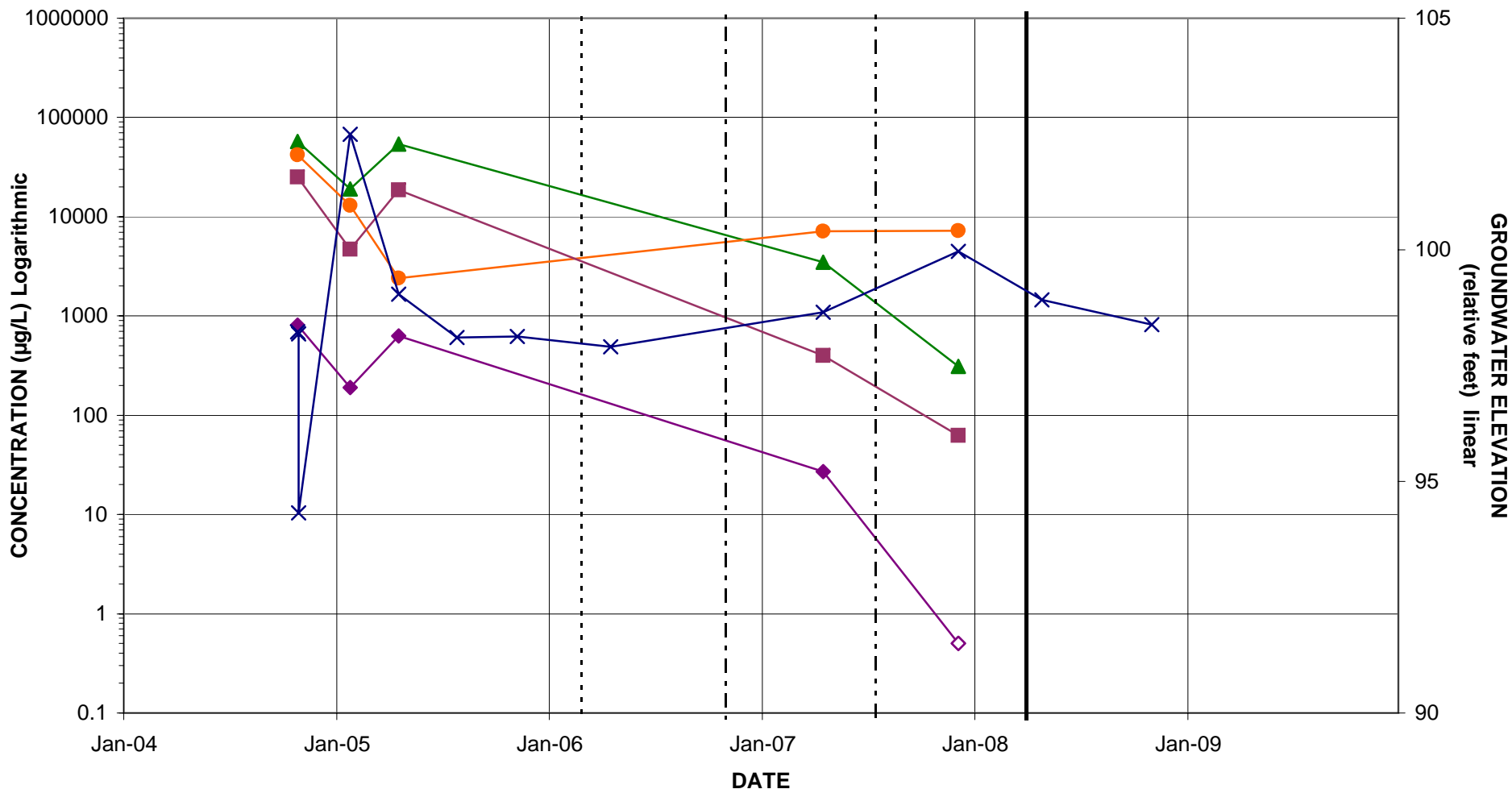
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-21

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



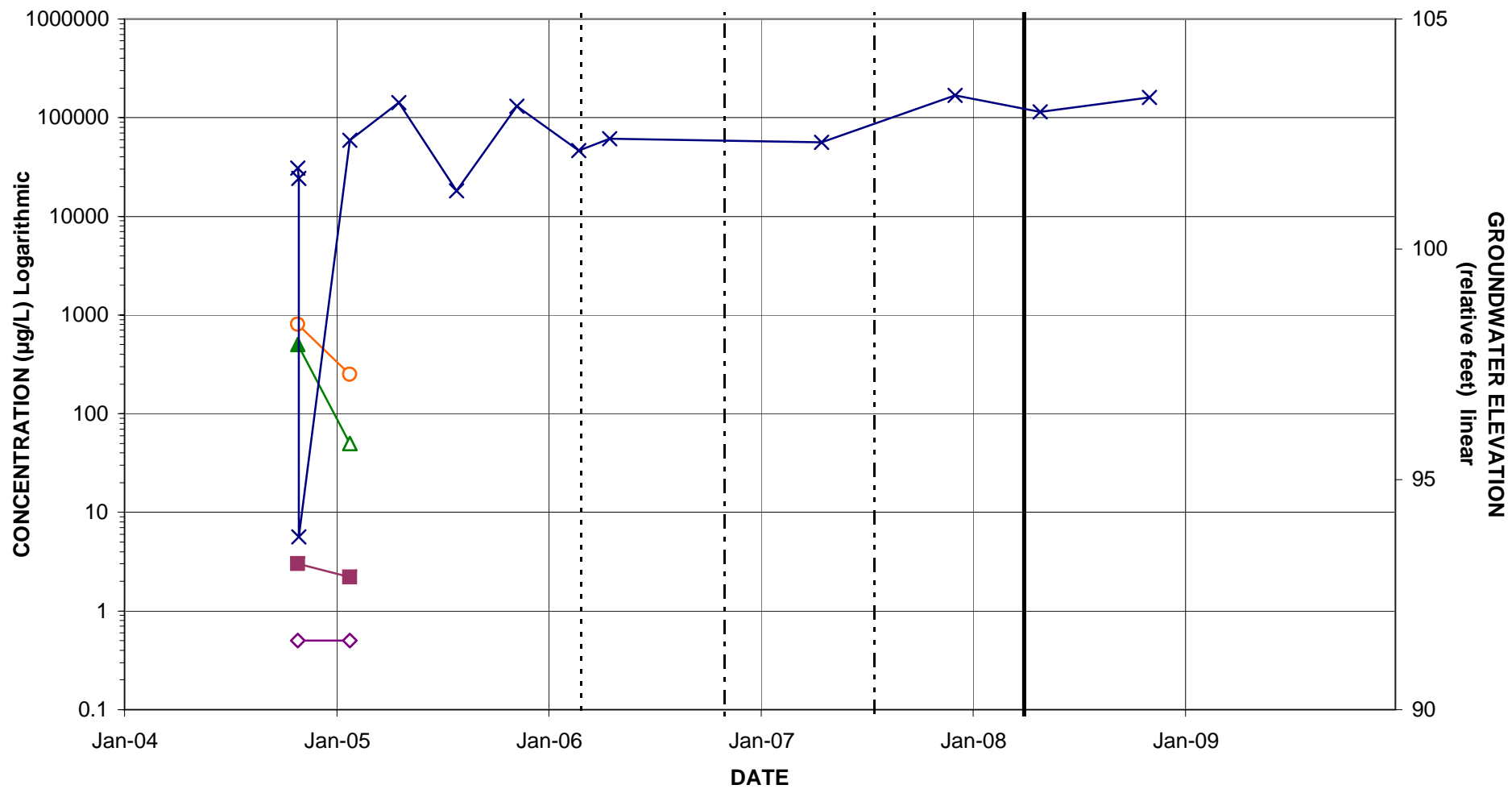
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-23 (Perched Well)

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



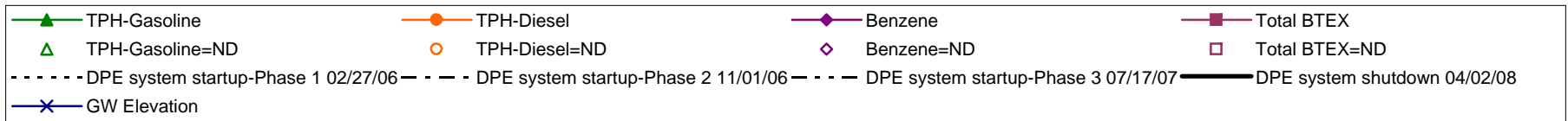
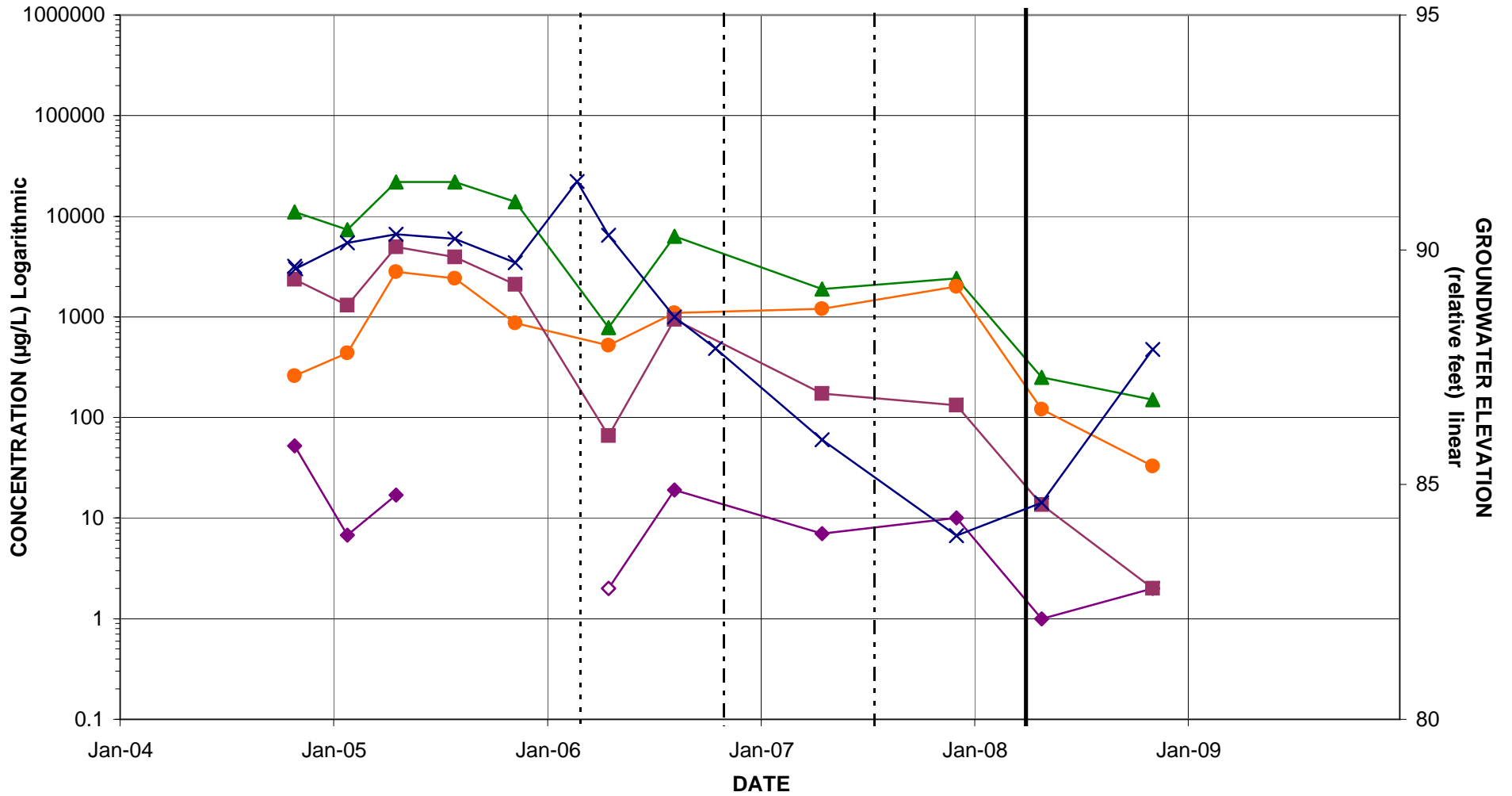
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-24 (Perched Well)

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



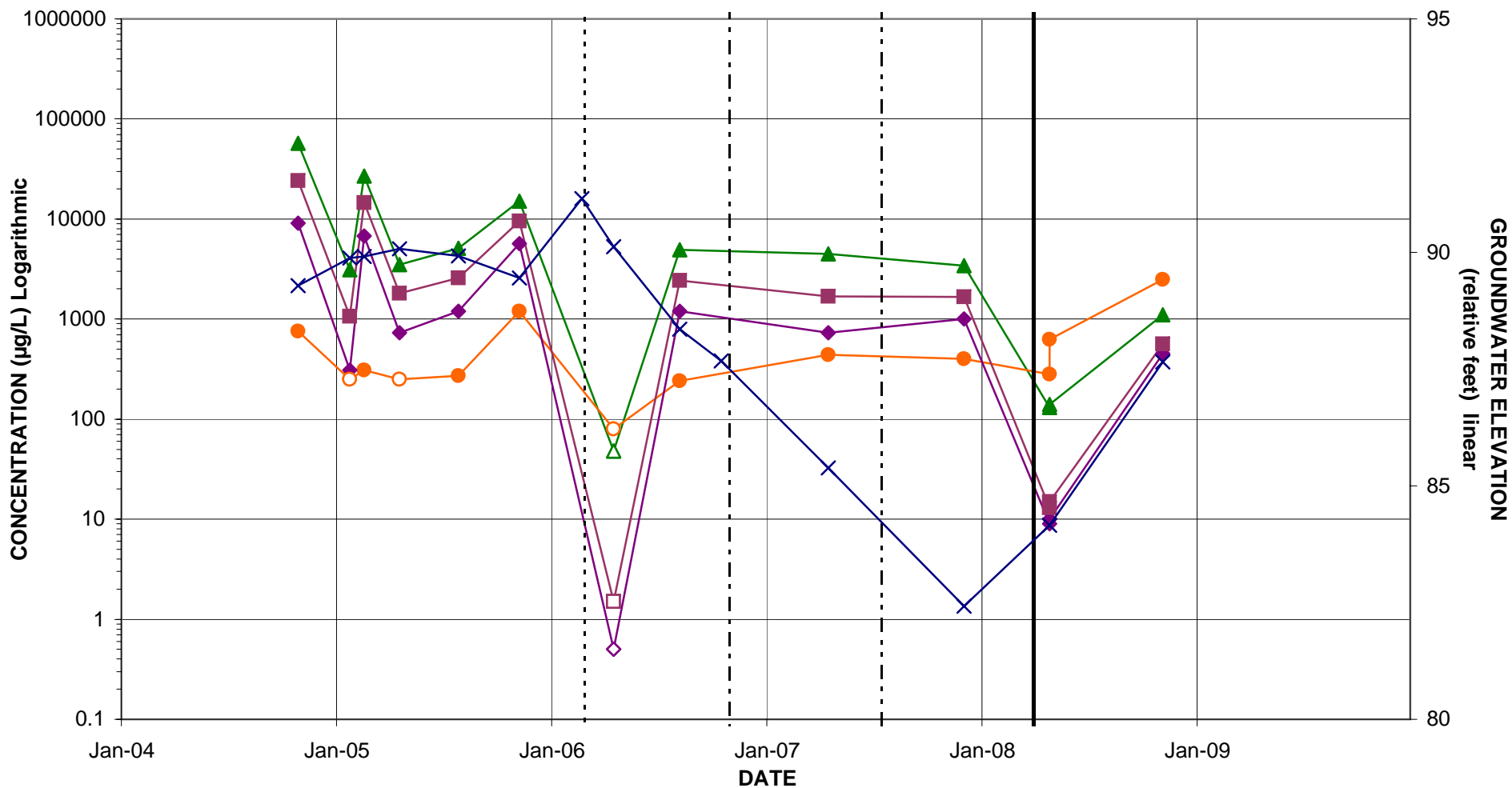
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-25

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



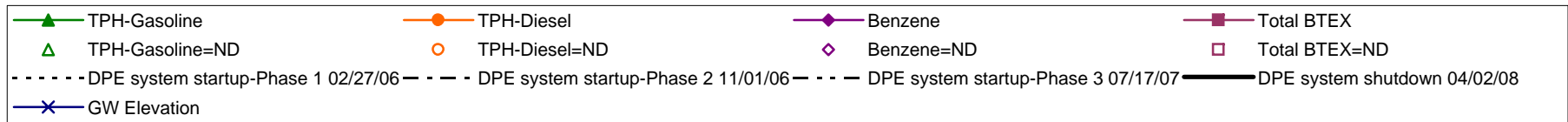
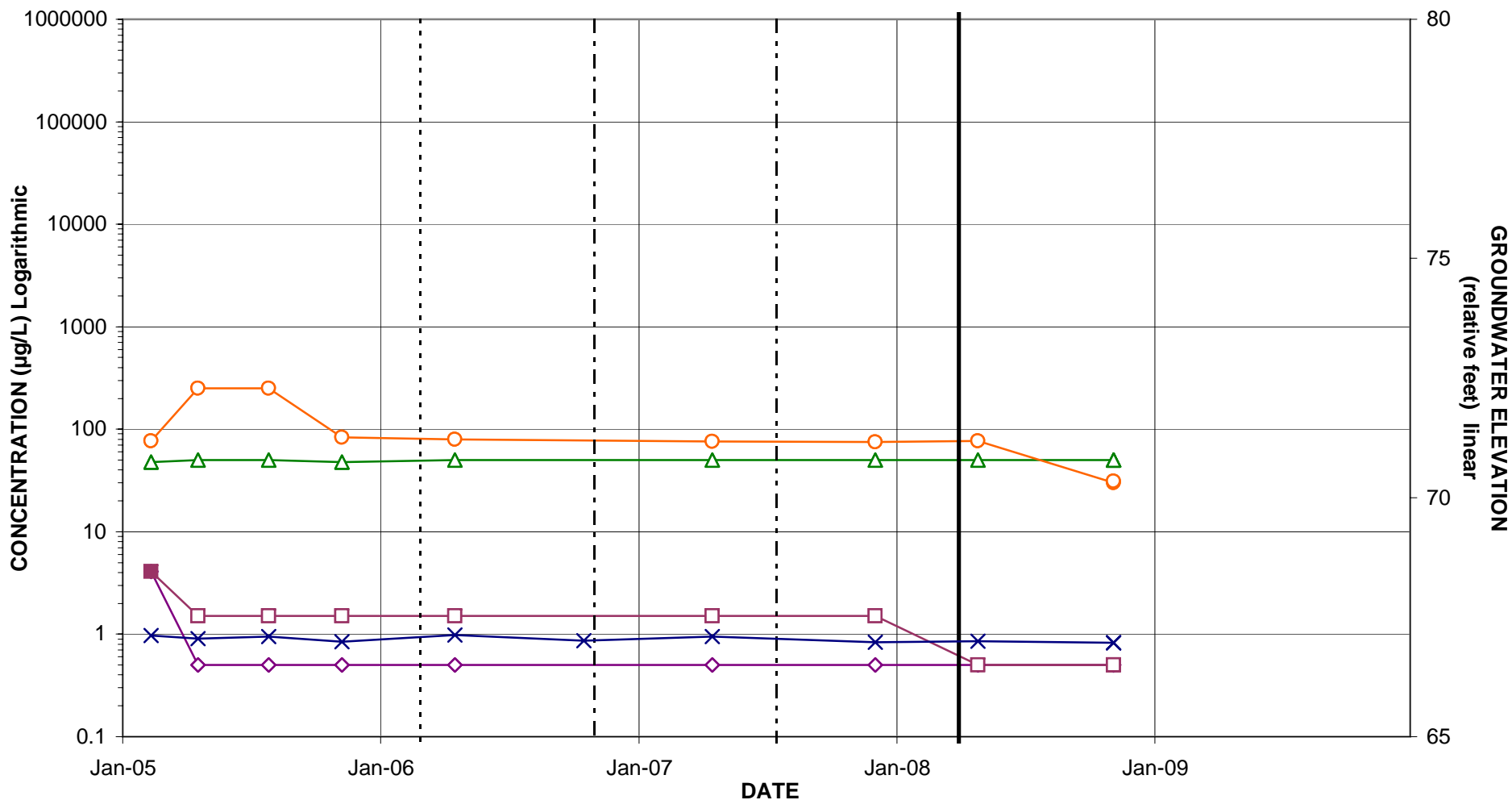
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-26

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



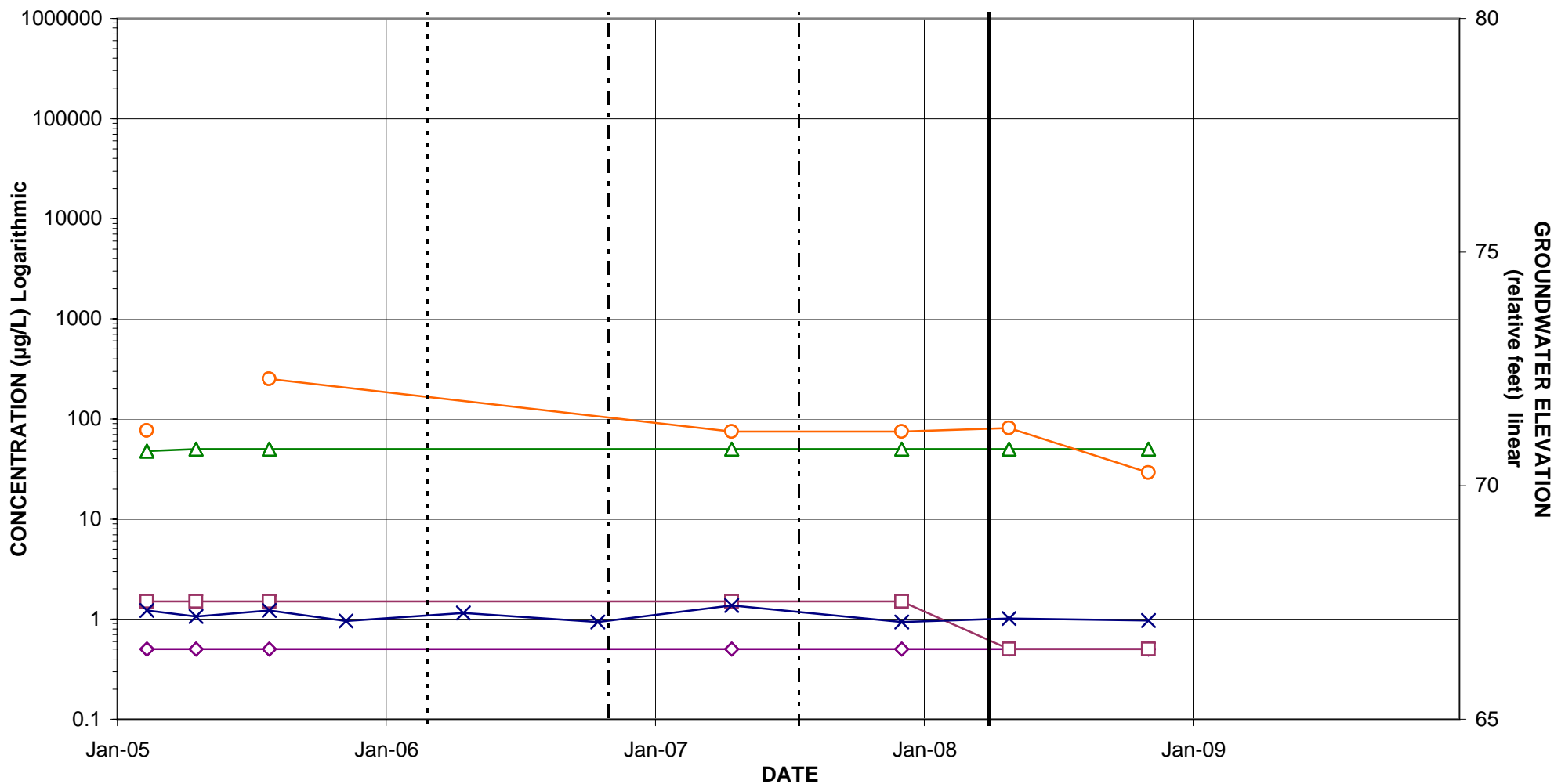
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-30

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



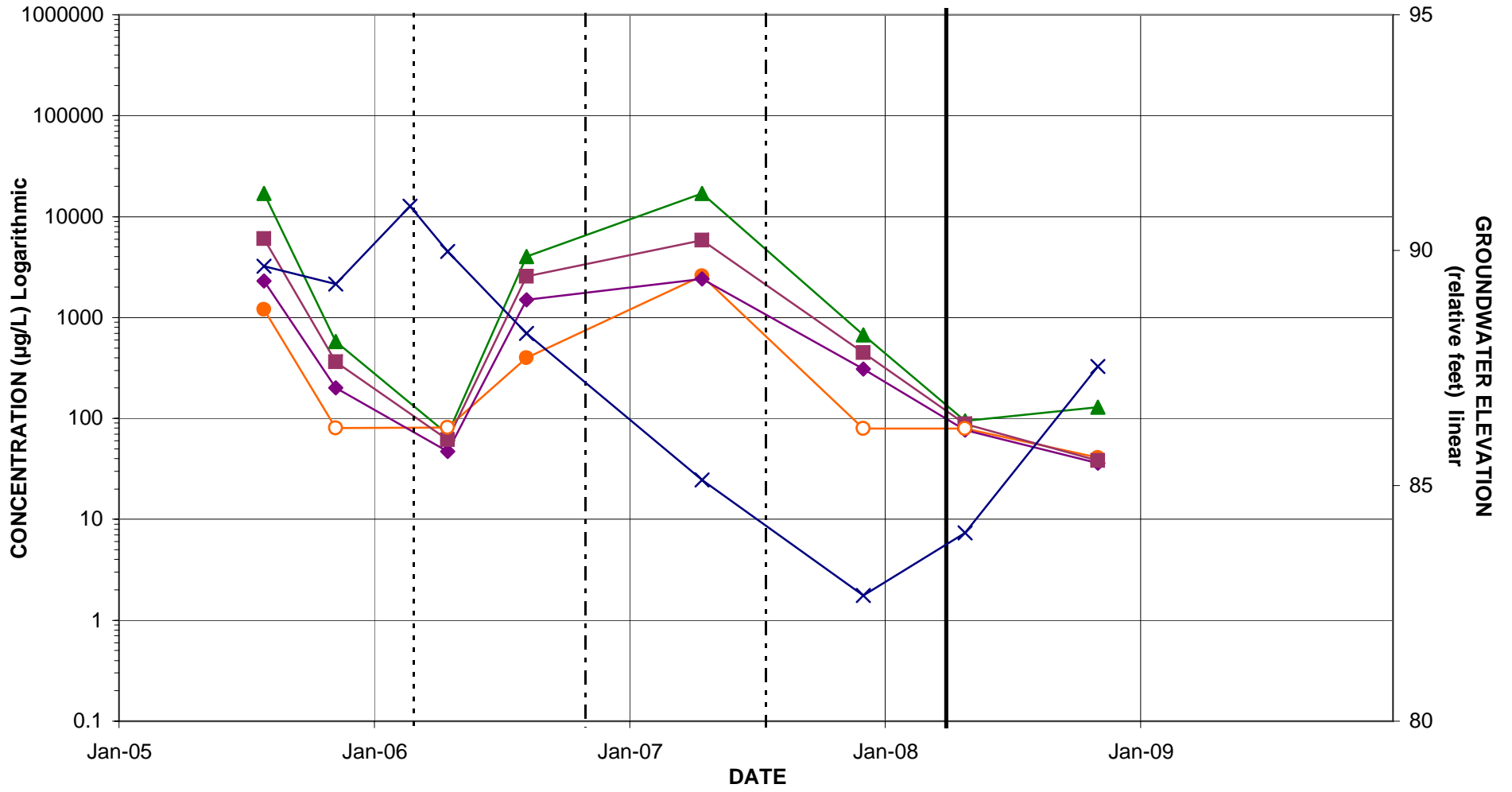
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-31

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



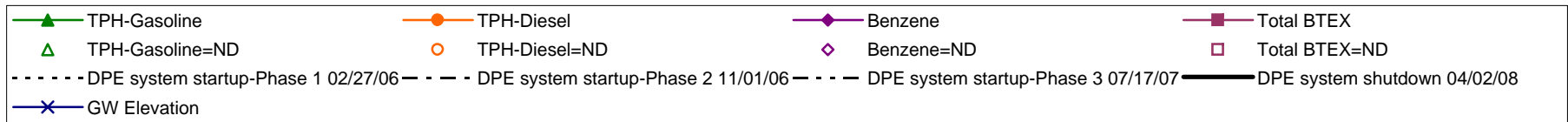
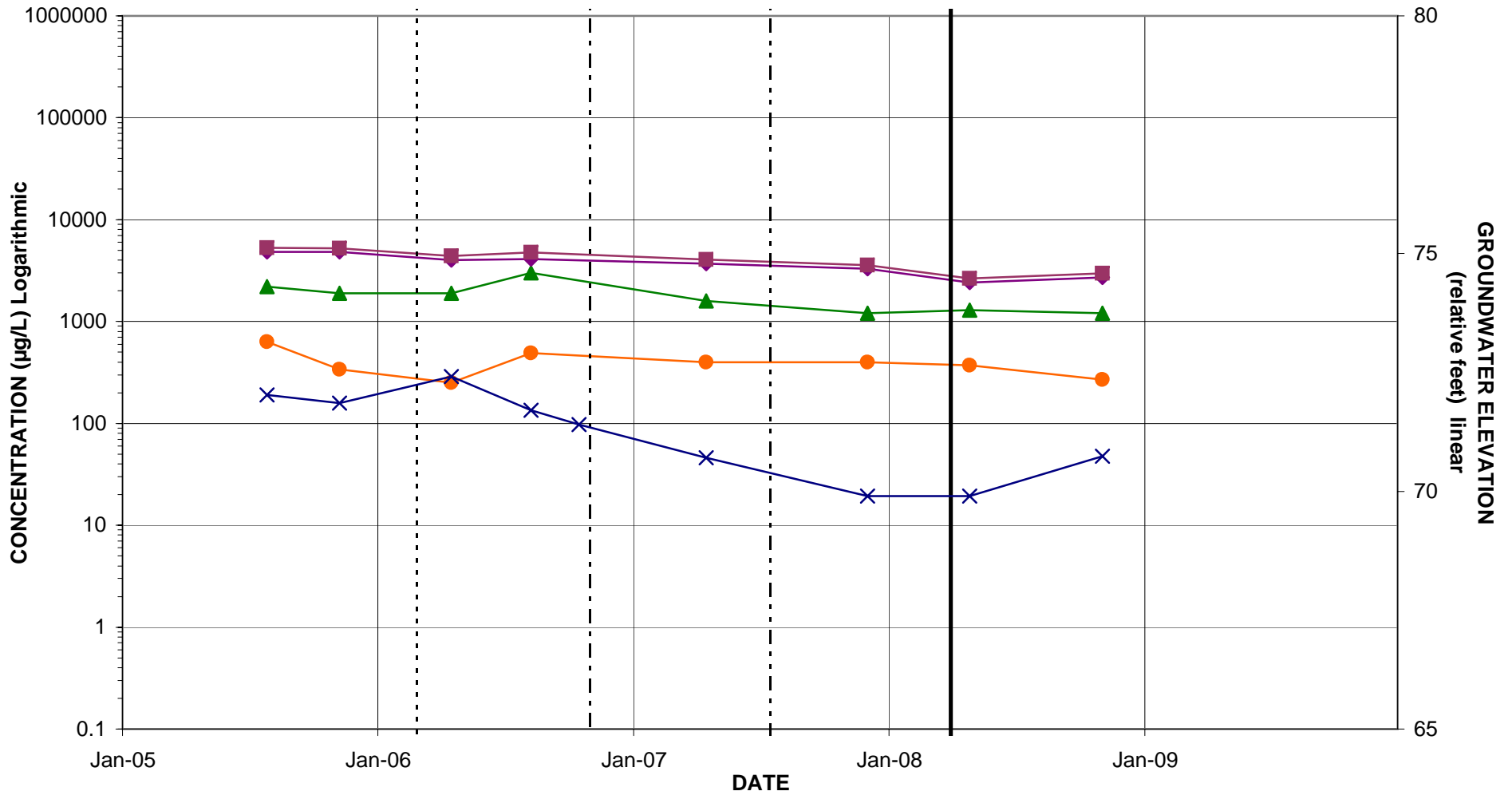
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 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-32

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



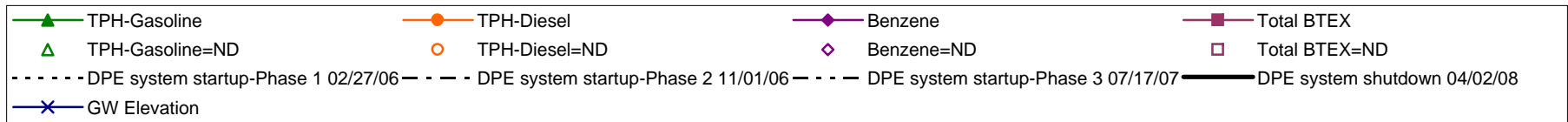
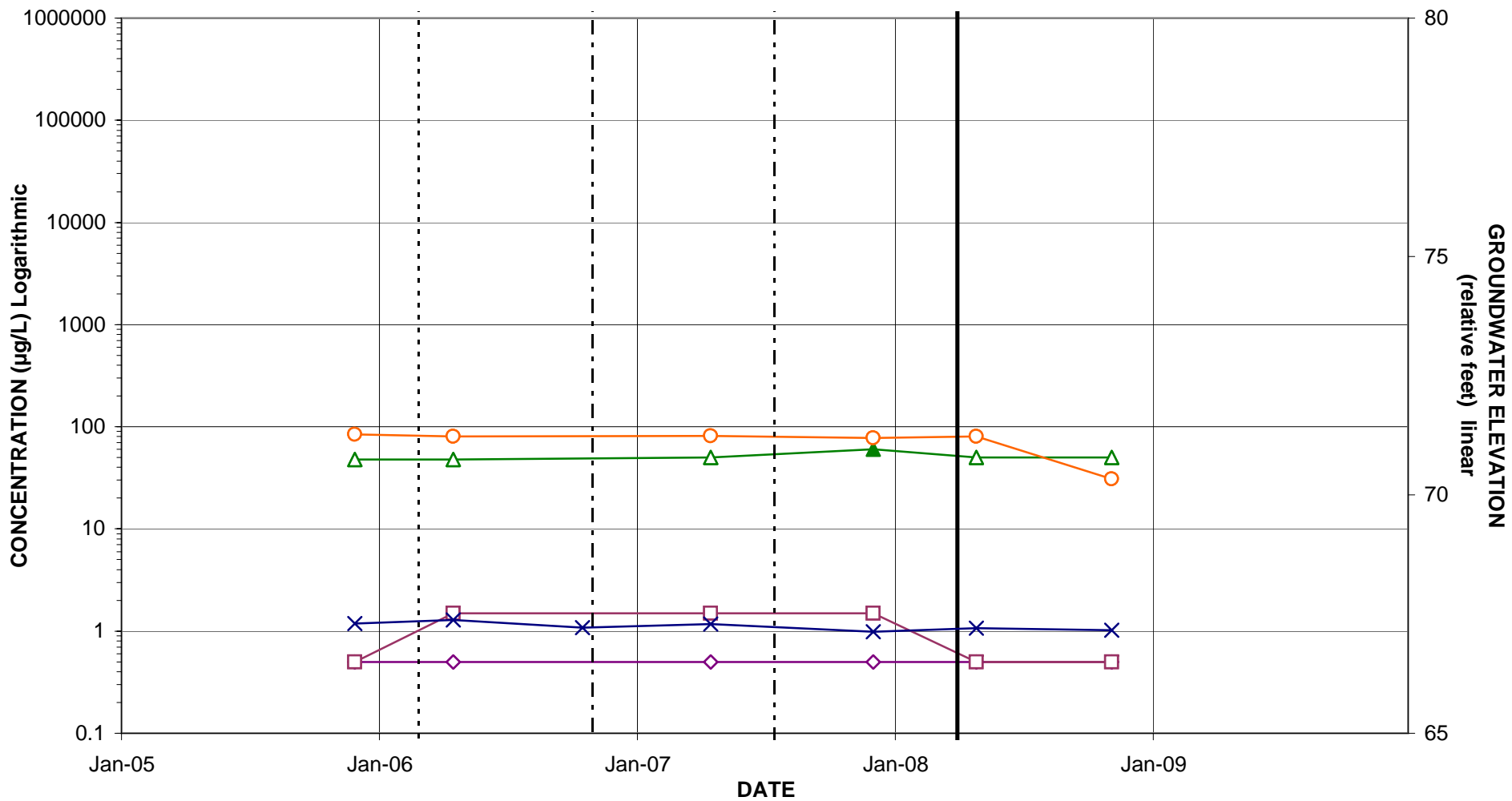
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 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-33

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



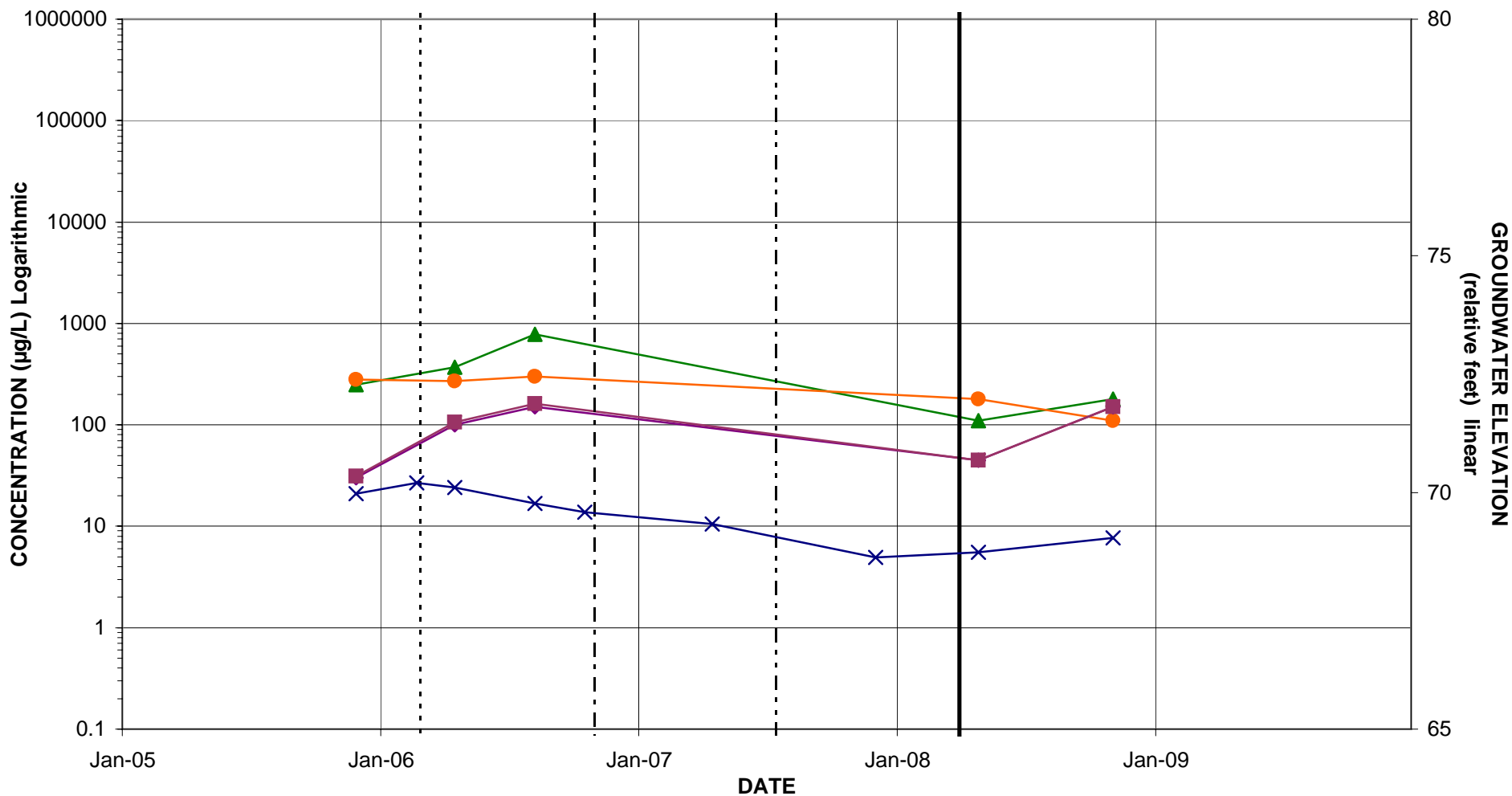
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-34

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



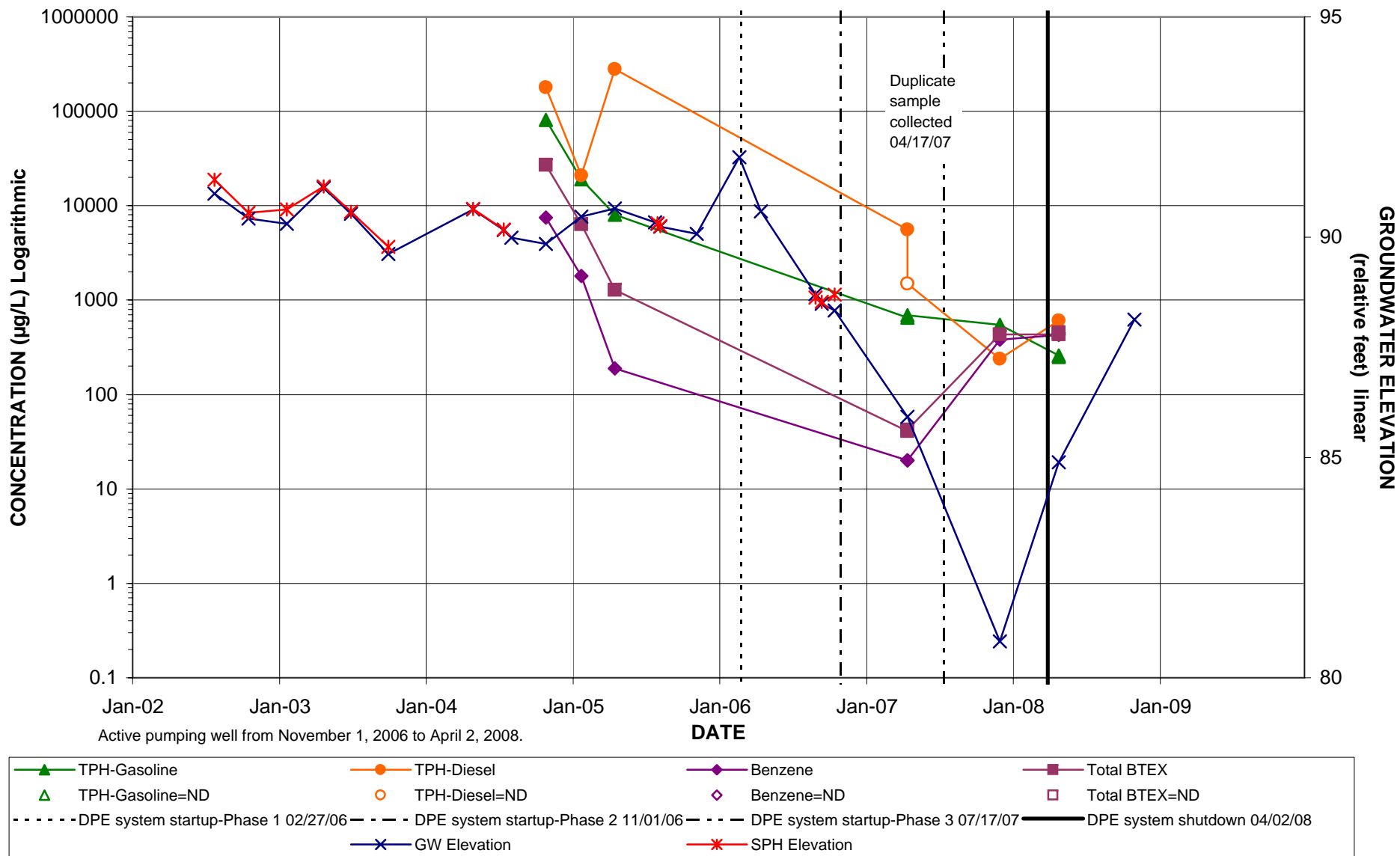
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well MW-35

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



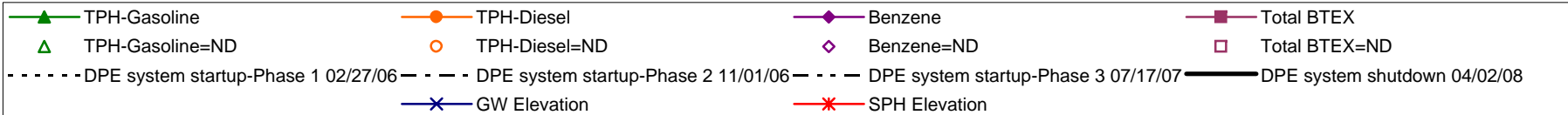
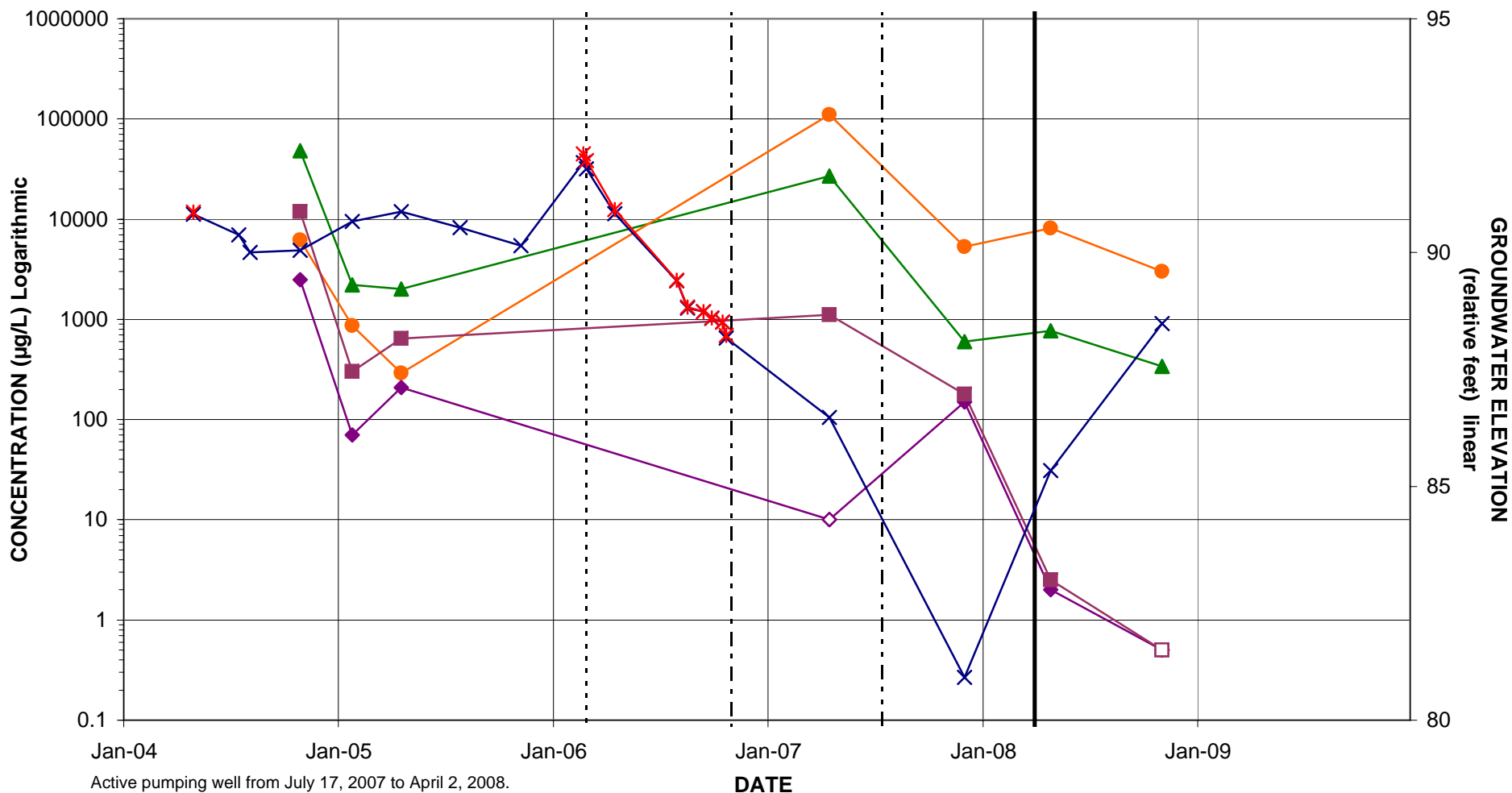
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well DPE-1(VP-6)

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



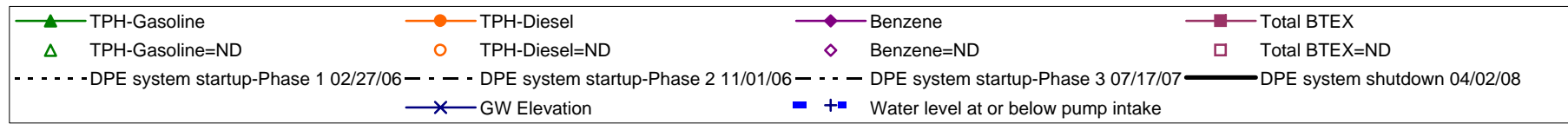
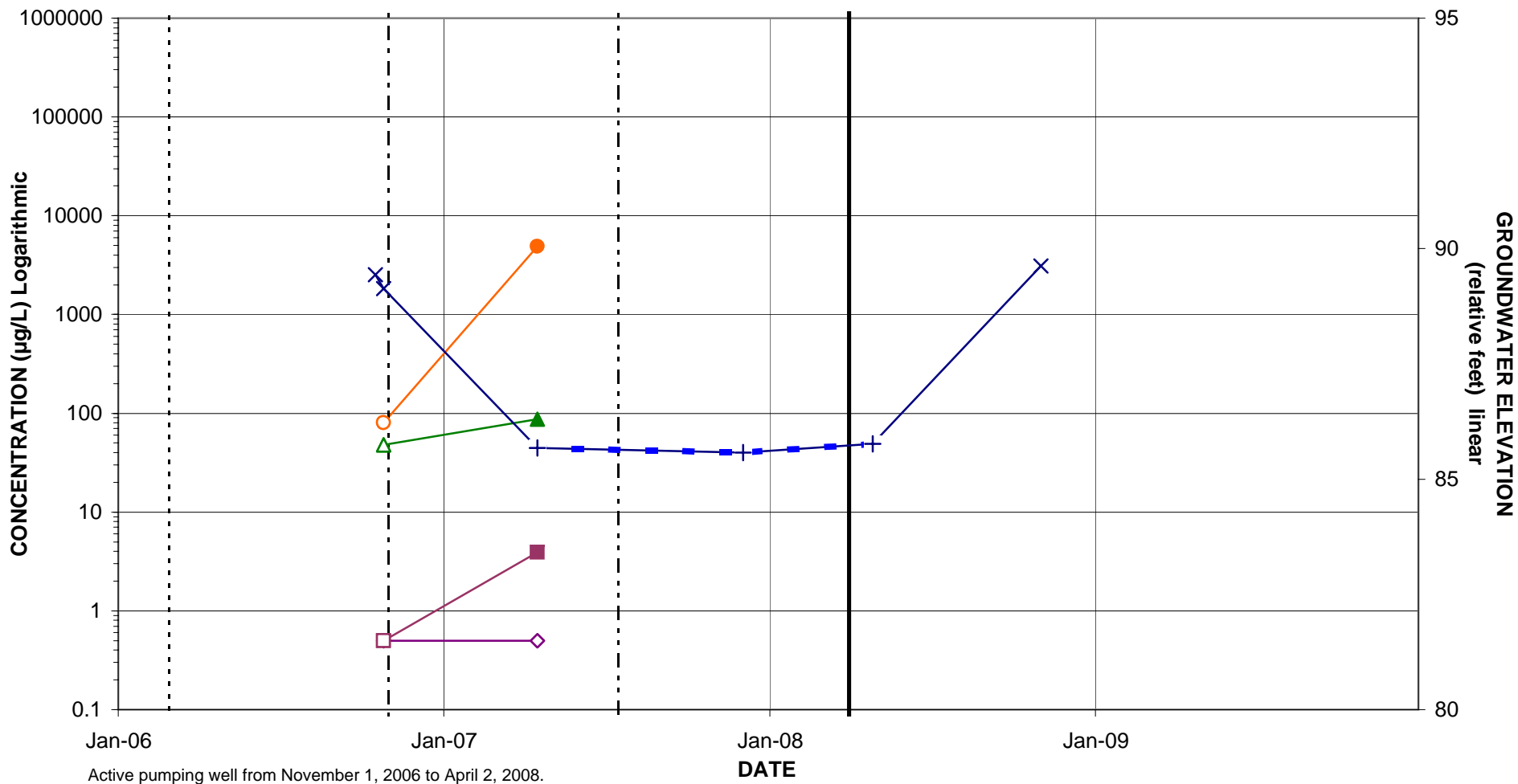
**Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington
Monitoring Well DPE-2**

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



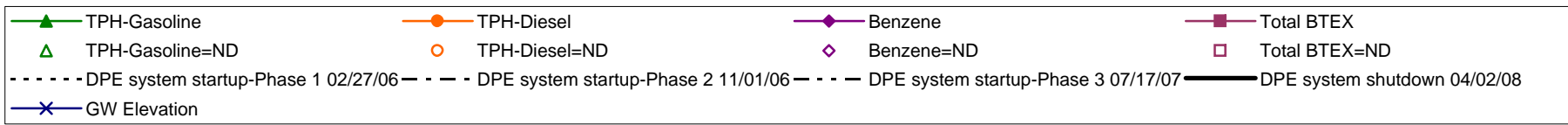
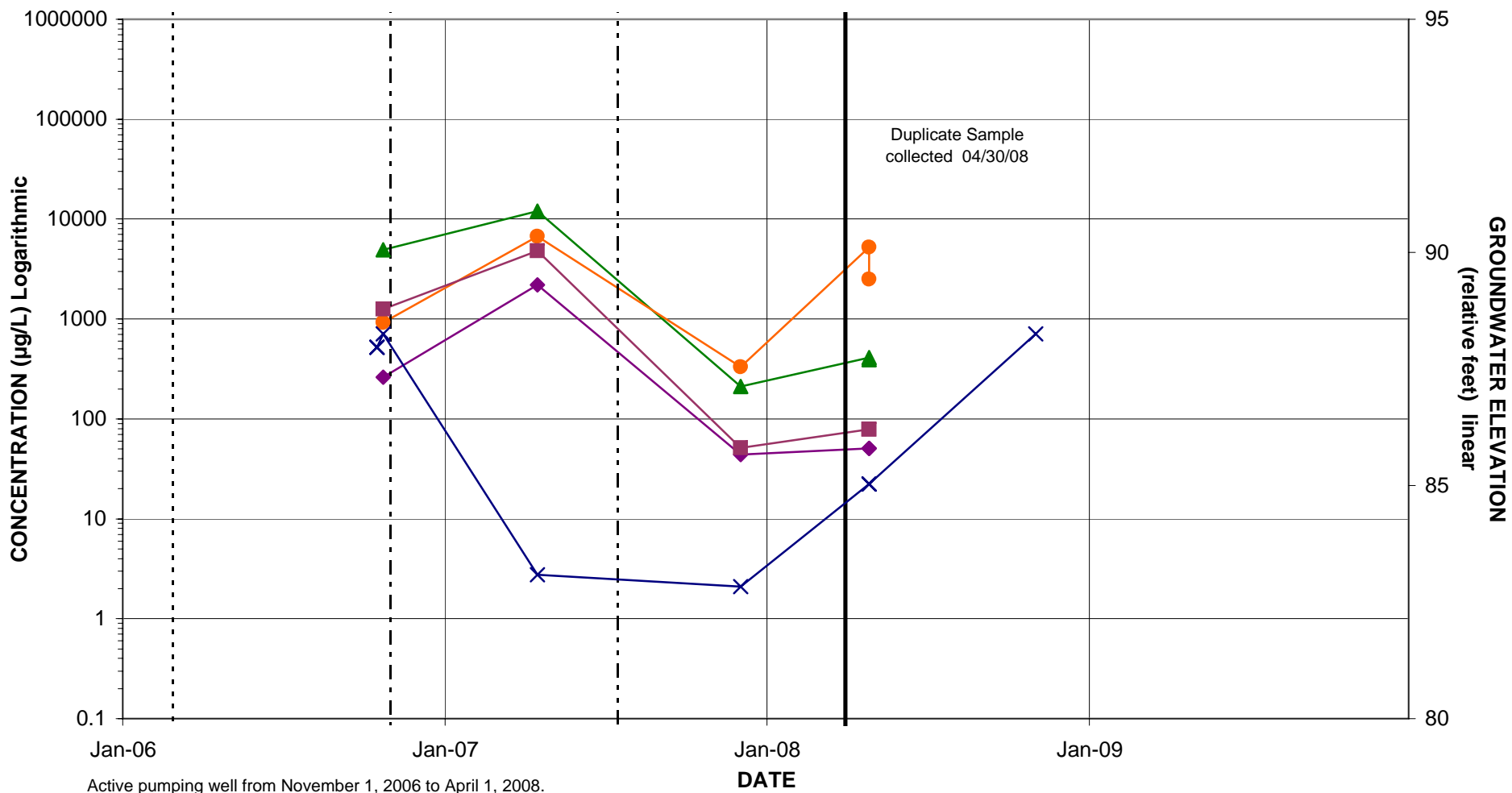
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well DPE-3

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



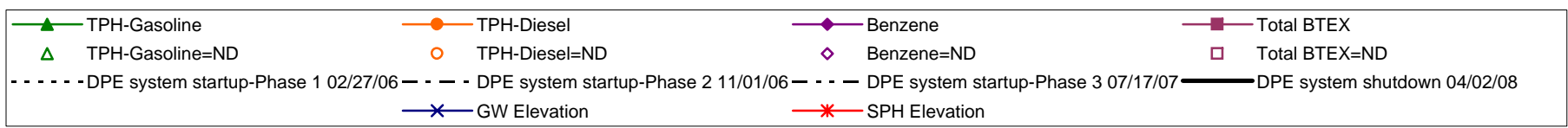
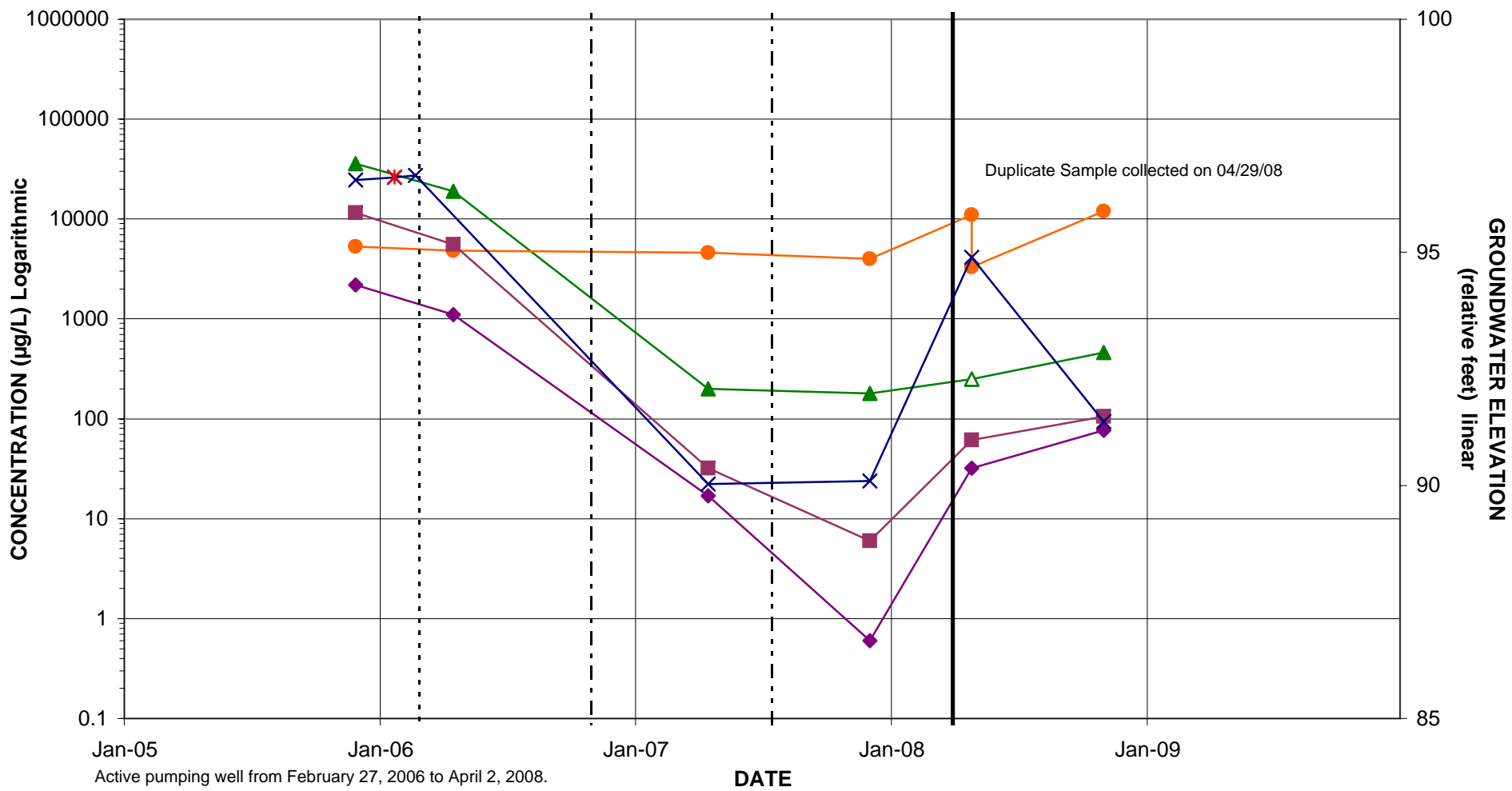
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well DPE-4

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



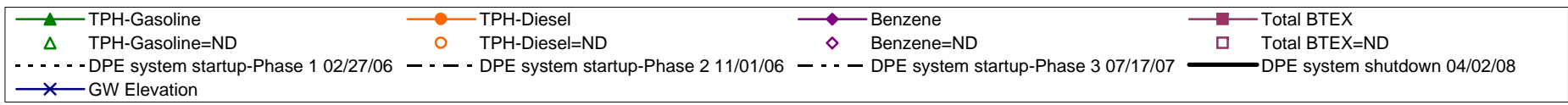
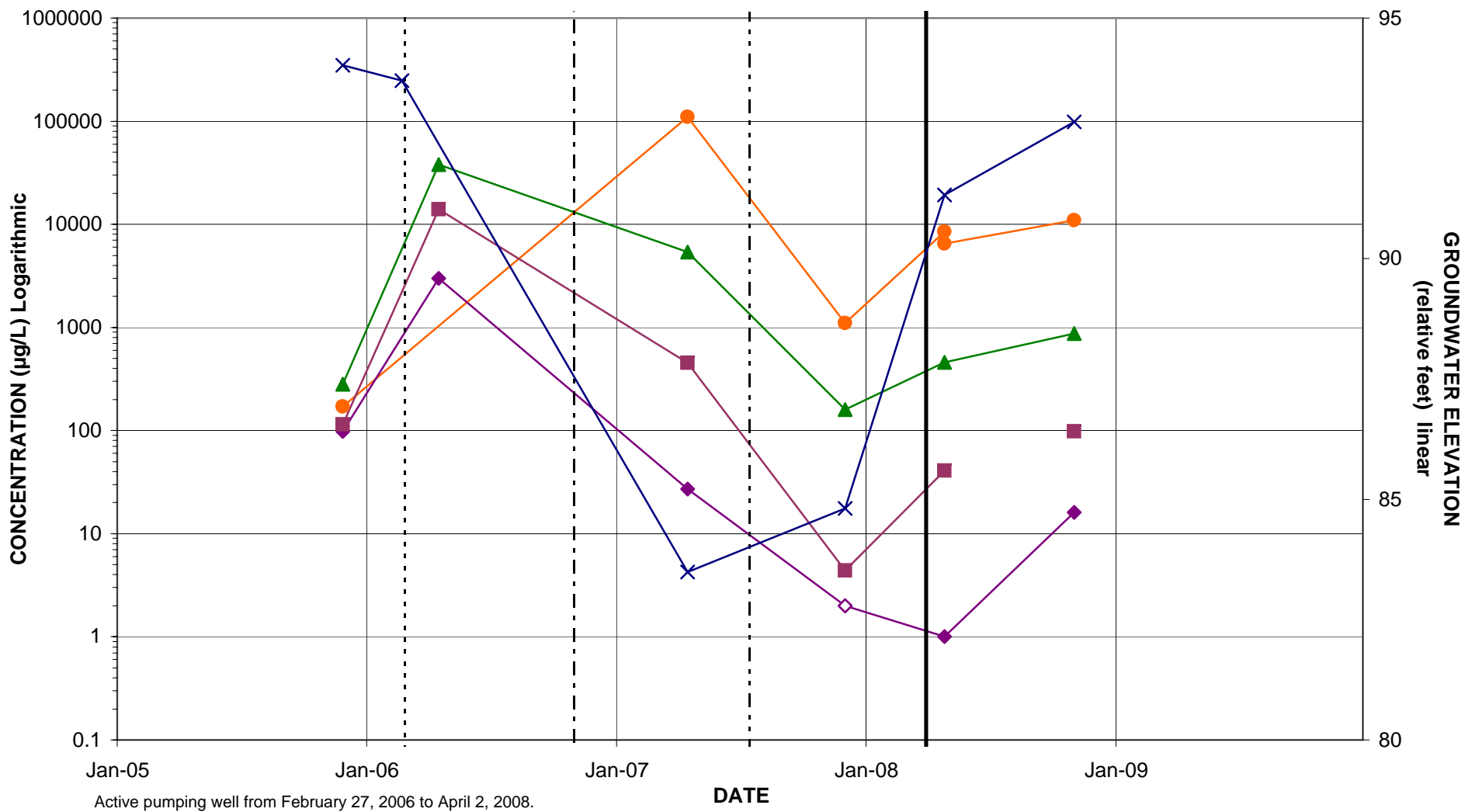
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well DPE-5 (Perched Well)

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



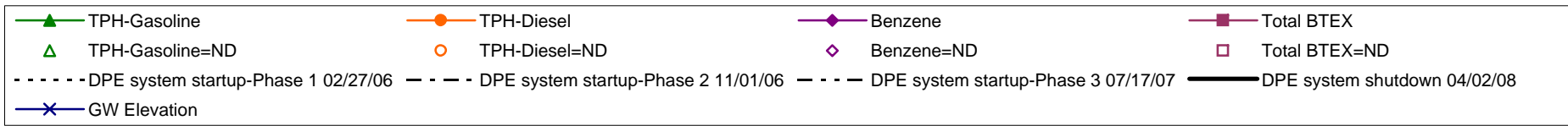
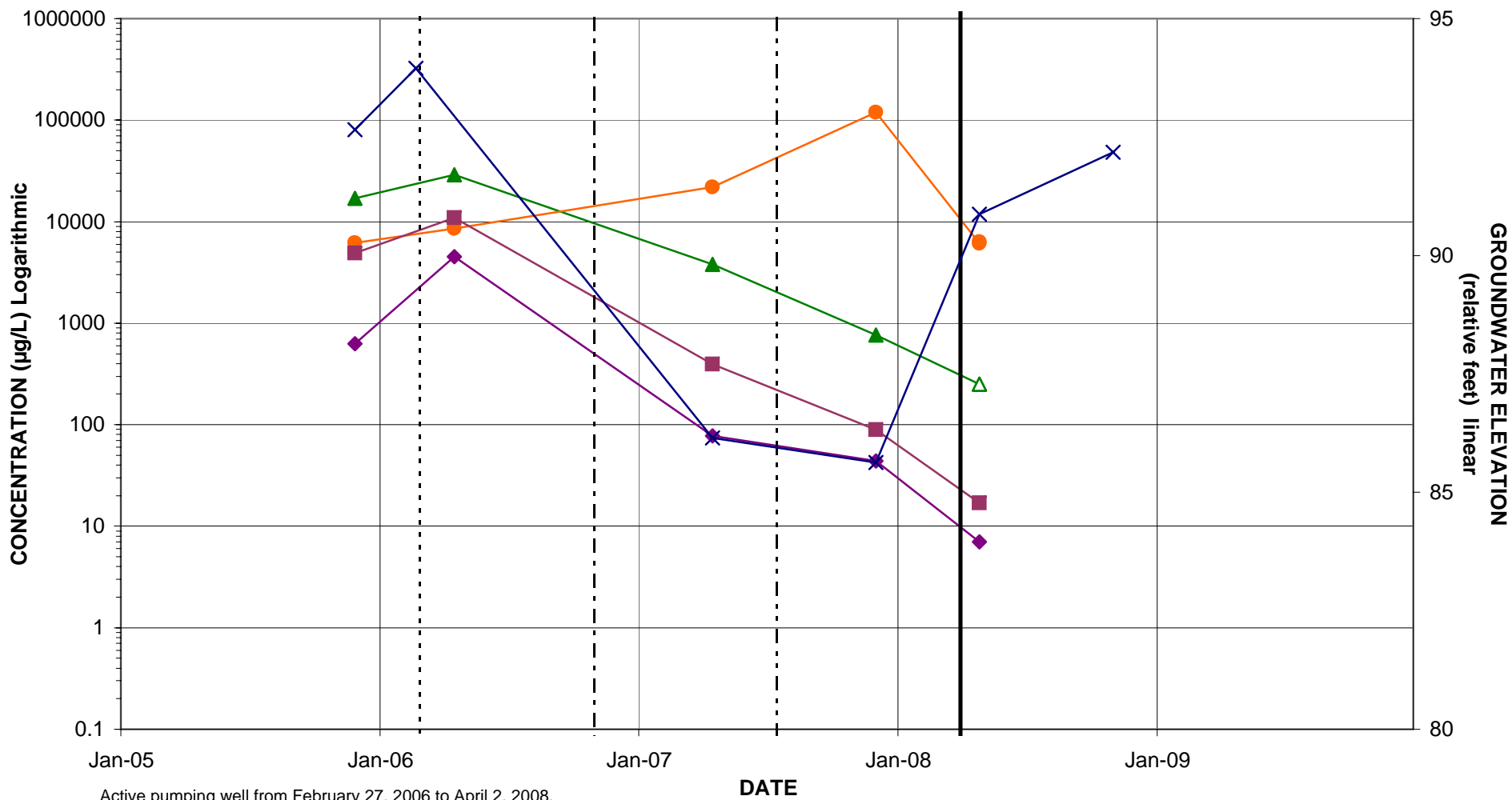
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well DPE-6

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



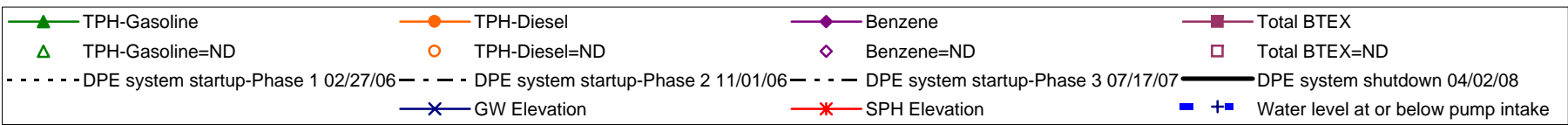
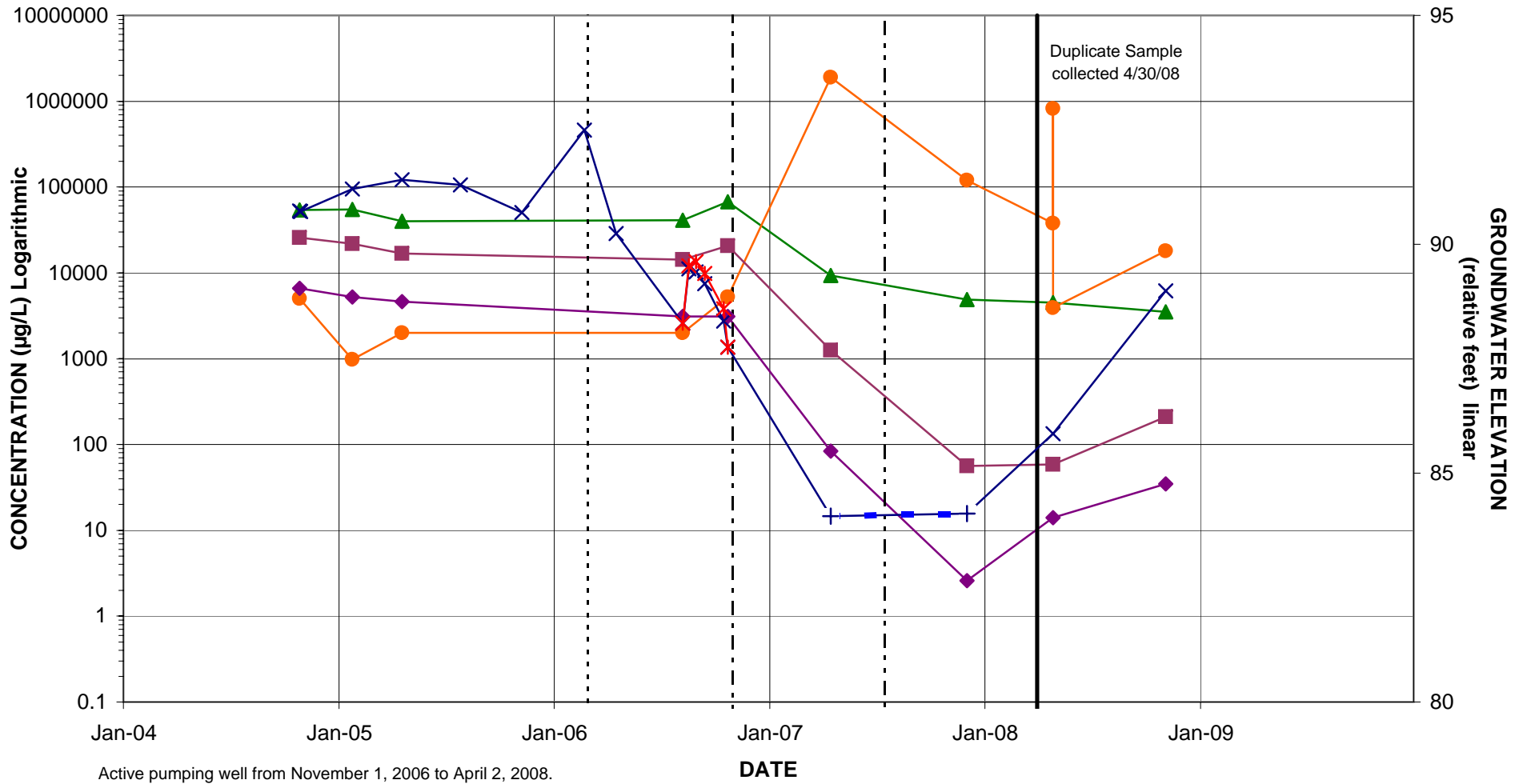
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well DPE-7

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



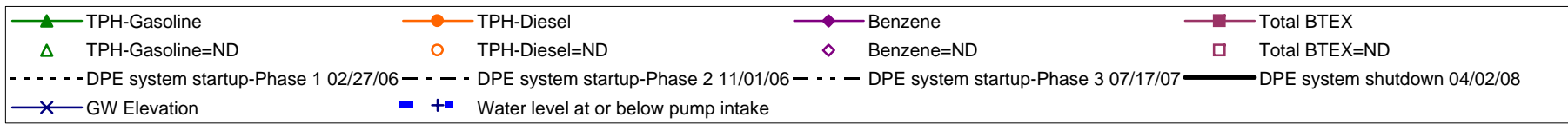
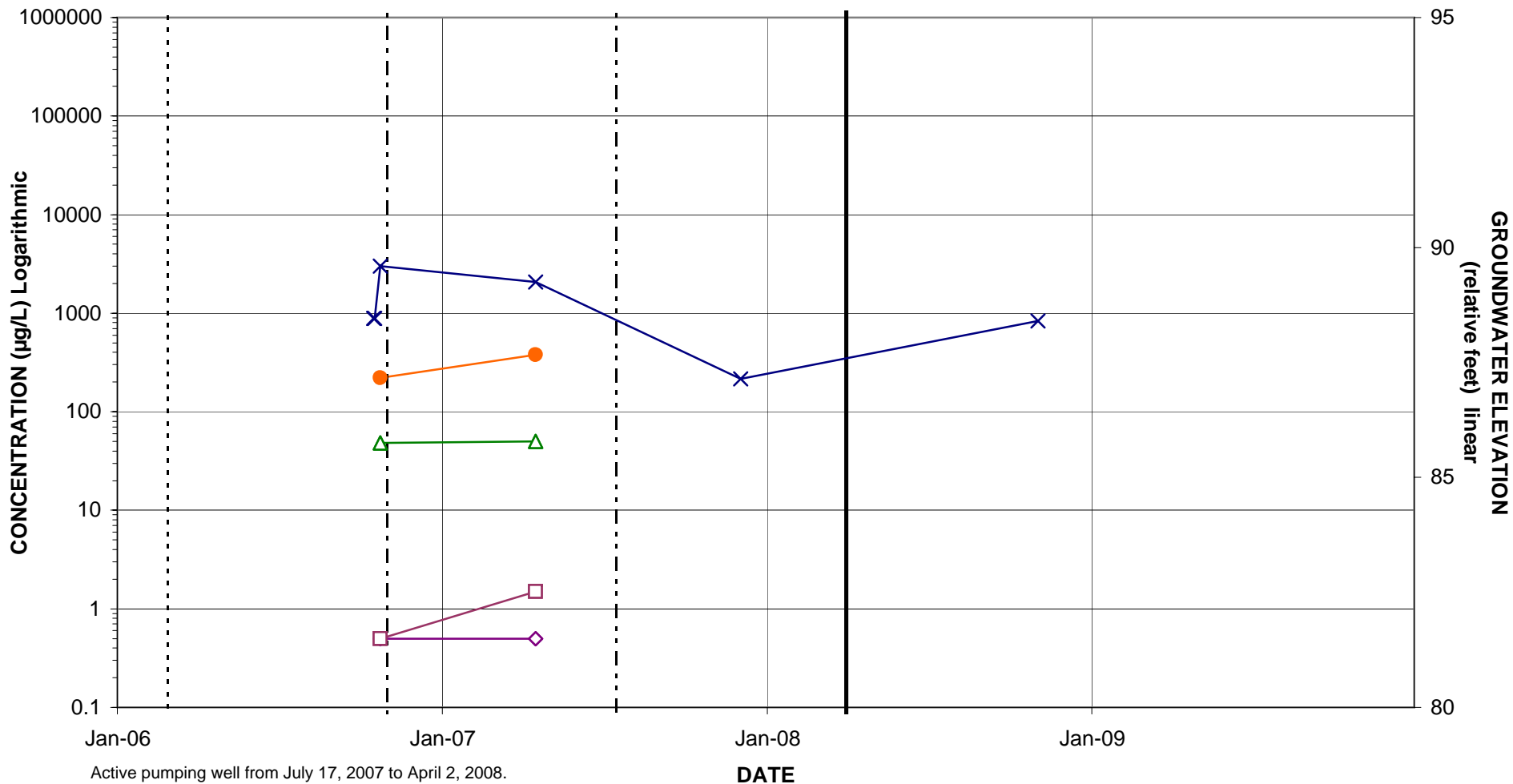
**Former Texaco Service Station / Chevron Site No. 211577
631 Queen Anne Avenue North, Seattle, Washington
Monitoring Well DPE-8(MW-22)**

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



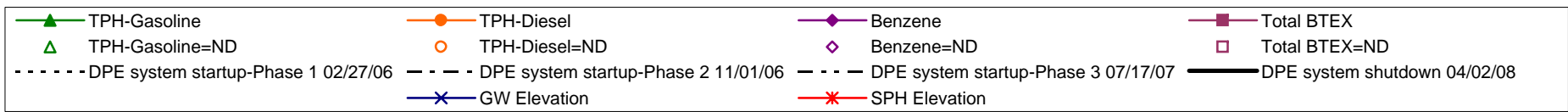
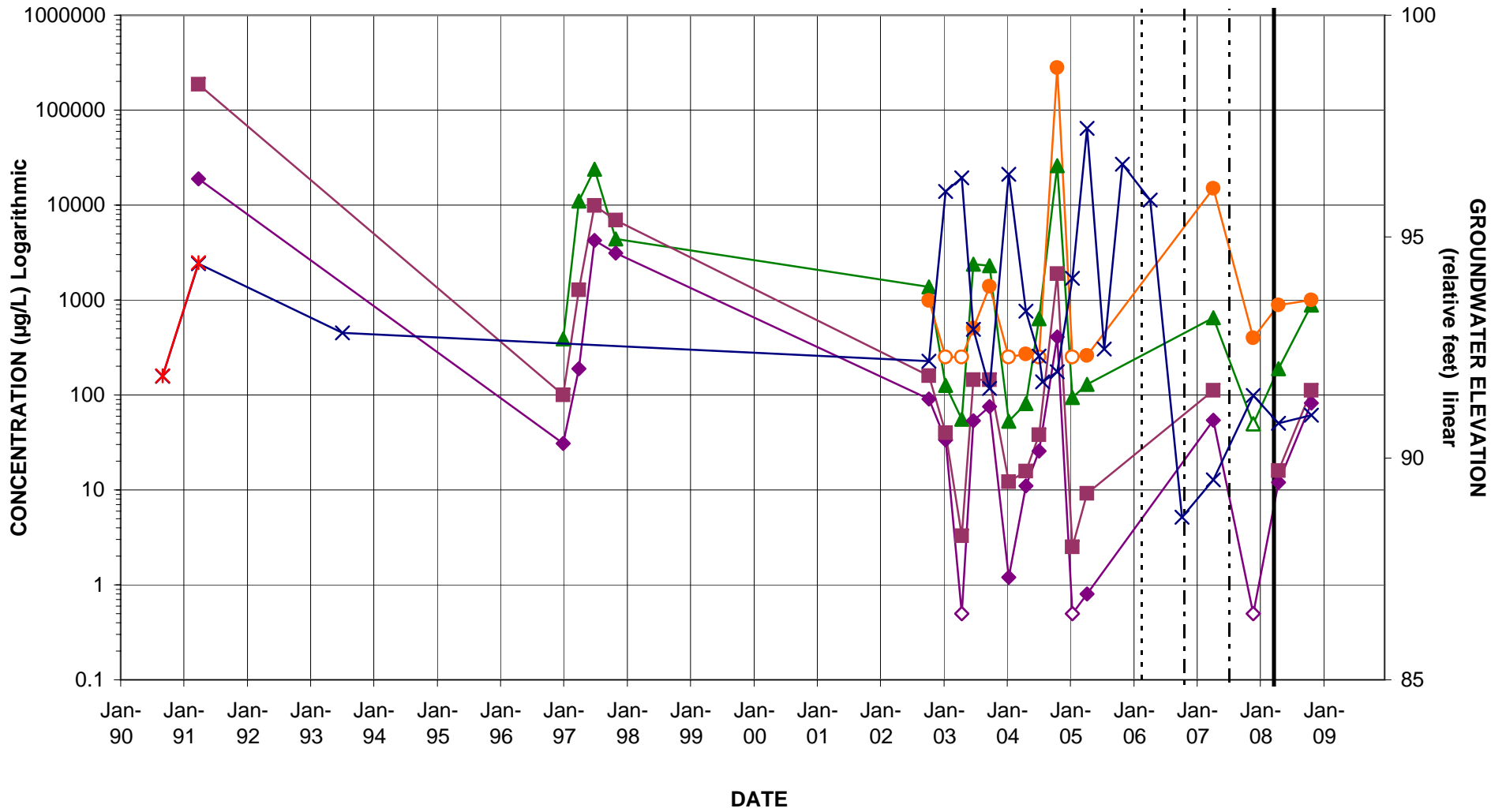
Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well DPE-9

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



Former Texaco Service Station / Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington
 Monitoring Well RW-2 (Perched Well)

CONCENTRATIONS OF CHEMICALS OF CONCERN AND GROUNDWATER ELEVATION VS. TIME



Attachment B:
Groundwater Gauging and Sampling Field Data Sheets April/May2008

April 2008 Sampling Event Well Matrix
 Former Texaco/Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington

Well I.D.	DTW Measurements					Samples Collected			
	Date	Time (24 Hr)	Head space (ppm)	DTW (feet)	Measured By	Date	Time (24 Hr)	Sampler	Parameters
VP-2	4/28/08	1131	0.0	14.63 DTW 14.90 TD	JNW				
VP-4	4/28/08	1141	0.04	DRY@1406	TMK				
MW-3	4/28/08	1207	0.0	DRY@12.53	TMK	X	X	X	TPH-G, TPH-D, TPH-O, BTEX
MW-4	4/28/08	1100	0.0	DRY@17.18	TMK	insufficient water			TPH-G, TPH-D, TPH-O, BTEX, MNA *
MW-5	04/28/08	1116	0.0	DRY	JNW	X	X	X	TPH-G, TPH-D, TPH-O, BTEX
MW-6	4/28/08	1221	0.0	22.28	JNW	05/01/08	1308	MBG	TPH-G, TPH-D, TPH-O, BTEX, MNA *
MW-7	4/28/08	1121	0.0	15.21 DTW 17.94 TD	JNW	04/29/08	1232	TMK	TPH-G, TPH-D, TPH-O, BTEX
MW-9	05/01/08	0755	0.0	22.62	GS	Filled with mud			TPH-G, TPH-D, TPH-O, BTEX, MNA *
MW-10	04/28/08	1231	0.0	12.68	TMK	05/01/08	1445	GC	TPH-G, TPH-D, TPH-O, BTEX, MNA *
MW-11	04/28/08	1107	0.0	obstructed 10.99 at	JNW				
MW-12	04/28/08	1715	0.0	12.02	JNW				
MW-13	4/28/08	1228	0.0	19.22	TMK				
MW-14	4/28/08	1052	3.02	16.89	TMK	04/28/08	1600	TMK	TPH-G, TPH-D, TPH-O, BTEX, FB
MW-15	4/28/08	1210	0.0	14.65	TMK	Car parked over well			TPH-G, TPH-D, TPH-O, BTEX, MNA *
MW-16	4/28/08	1044	0.06	17.46	TMK	05/02/08	0740	GC	TPH-G, TPH-D, TPH-O, BTEX, MNA *
MW-17	4/28/08	1217	0.0	15.21 16.73	TMK	05/01/08	1015 1100	SAD	TPH-G, TPH-D, TPH-O, BTEX, MNA *
MW-18	4/28/08	1205	0.0	16.72 16.42	TMK	04/29/08	1210	TMK	TPH-G, TPH-D, TPH-O, BTEX
MW-19	4/28/08	1200	0.0	16.42	TMK	04/29/08	1355	TMK	TPH-G, TPH-D, TPH-O, BTEX
MW-20	04/28/08	1059	0.0	7.05	JNW				
MW-21	04/28/08	1052	0.0	26.40	JNW	05/01/08	1145	SAD	TPH-G, TPH-D, TPH-O, BTEX, MNA *
MW-23	4/29/08	1527	0.0	8.87	TMK				
MW-24	04/28/08	1137	0.0	4.94	JNW				
MW-25	4/28/08	1055	0.0	17.31	TMK	4/28/08	1655	TMK	TPH-G, TPH-D, TPH-O, BTEX

April 2008 Sampling Event Well Matrix
 Former Texaco/Chevron Site No. 211577
 631 Queen Anne Avenue North, Seattle, Washington

Well I.D.	DTW Measurements					Samples Collected			
	Date	Time (24 Hr)	Head space (ppm)	DTW (feet)	Measured By	Date	Time (24 Hr)	Sampler	Parameters
MW-26	4/28/08	1048	0.0	16.28	TMK	05/01/08	0915	MBG	TPH-G, TPH-D, TPH-O, BTEX, MNA
MW-30	4/28/08	0958	0.0			04/30/08	1300	JNW	TPH-G, TPH-D, TPH-O, BTEX, MNA
MW-31	4/28/08	1010	0.0			04/30/08	0910	SAD	TPH-G, TPH-D, TPH-O, BTEX
MW-32	4/29/08	1620	0.0	17.06	SAD	04/29/08	1620	SAD	TPH-G, TPH-D, TPH-O, BTEX, FB
MW-33	04/28/08	1032	0.0	30.44	JNW	04/28/08	1455	TMK	TPH-G, TPH-D, TPH-O, BTEX
MW-34	04/28/08	0942	0.0			04/30/08	1455	JNW	TPH-G, TPH-D, TPH-O, BTEX, MNA
MW-35	04/28/08	1045	0.0	31.76	JNW	05/01/08	0830	MBG	TPH-G, TPH-D, TPH-O, BTEX, MNA
DPE-1, IP	4/28/08	1156	0.0	16.74	TMK	04/29/08	1303	MBG	TPH-G, TPH-D, TPH-O, BTEX
DPE-2, IP	4/28/08	1145	156	17.20	TMK	04/29/08	1207	JNW	TPH-G, TPH-D, TPH-O, BTEX
DPE-3	4/28/08	1137	4.1	18.25	TMK	insufficient water			TPH-G, TPH-D, TPH-O, BTEX
DPE-4	4/28/08	1101	0.0	17.36	TMK	04/30/08	1135	TMK	TPH-G, TPH-D, TPH-O, BTEX
DPE-5	04/28/08	1236	0.0	18.93	JNW	4/29/08	1000	TMK	TPH-G, TPH-D, TPH-O, BTEX
DPE-6, IP	04/28/08	1225	0.6	22.81	JNW	4/29/08	0845	TMK	TPH-G, TPH-D X 2, TPH-O, BTEX
DPE-7, IP	04/28/08	1213	2.4	22.26	JNW	4/29/08	0912	JNW	TPH-G, TPH-D X 2, TPH-O, BTEX
DPE-8, IP	4/28/08	1114	0.0	18.63	TMK	4/29/08	1640	JNW	TPH-G, TPH-D X 2, TPH-O, BTEX, FB
DPE-9	4/28/08	1105	0.0	obstructed at 16.67	TMK	insufficient water			TPH-G, TPH-D, TPH-O, BTEX
RW-2	04/28/08	1140	0.0	15.82	JNW	4/29/08	1455	SAD	TPH-G, TPH-D, TPH-O, BTEX

IP = Interface Probe
 FB = Field Blank

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: MW-4

WELL NUMBER: MW-4

DATE/TIME: 05/01/08

WEATHER: _____

ANALYSIS:

WELL PURGING DATA

Initial depth to water: NA

Depth of well: _____

Screened Interval: _____

Volume of water in well: _____

Method of purging: -LOW FLOW

Purge Rate: _____

Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)

Well Dry
05/01/08
MWS

Comments: Well Dry no sample collected

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled

SAMPLE METHOD: Pump Bailer Other _____

FILTERED? Yes No

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: x Iced _____ Other (describe): _____

Signature: Morgan Gay

Date/Time: 05/01/08 / 1200

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: MW-6

WELL NUMBER: MW-6

DATE/TIME: 05/01/08 1308

WEATHER: _____

ANALYSIS:

WELL PURGING DATA

Initial depth to water: 22.28

Depth of well: _____

Screened Interval: _____

Volume of water in well: _____

Method of purging: -LOW FLOW

Purge Rate: _____

Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1314		22.28	16.26	5.85	518	1.24	9.8	61.4
1316		22.28	16.22	5.80	508	1.25	16.8	45.5
1318		22.35	16.19	5.76	491	1.17	22.6	39.5
1320		22.32	16.19	5.77	481	1.20	22.9	28.8
1322		22.34	16.19	5.78	478	1.04	21.3	21.7
1324		22.35	16.18	5.82	480	1.10	17.4	20.2
<i>Megan Day</i> <i>05/01/08</i>								

Comments: sampled at 1340

SAMPLE CONTAINER DATA:

SAMPLE METHOD: Pump Bailer Other _____

FILTERED? Yes No

Type	Pres.	Volume	No. Required	No. Filled
VOA	HCl	40ml	6	6
Amber	HCl	1L	2	2
Poly	NA	500ml	3	3
Poly	HNO ₃	500ml	1	1
Filtered Poly	NA	500ml	1	1
Glass	NaOH ZnAc	500ml	1	1

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: x Iced _____ Other (describe): _____

Signature: Megan Day

Date/Time: 05/01/08 1344

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: MW-7
 DATE/TIME: 4/29/08 1232
 ANALYSIS: BETX/6, DX

WELL NUMBER: MW-7
 WEATHER: Sunny, warm, light breeze

WELL PURGING DATA

Initial depth to water: 15.12 Depth of well:
 Screened Interval: Volume of water in well:
 Method of purging: -LOW FLOW Purge Rate:
 Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1246	0	16.21	16.82	6.70	538/454	37.8	110.3	48.2
1248		16.34	16.89	6.66	538/455	37.0	114.0	54.1
1250	12 oz	16.42	16.64	6.64	342/455	37.5	41.9	61.8
1252		16.44	15.93	6.61	345/431	36.2	34.6	59.8
1254	16 oz	16.46	15.87	6.62	344/449	35.1	23.8	50.0
<i>Jana King</i>								

Comments: Collect MW-7 @ 1255

SAMPLE CONTAINER DATA: SAMPLE METHOD: Pump Bailer Other

FILTERED? Yes No

Type	Pres.	Volume	No. Required	No. Filled
Voa	HCL	40ml	6	6
Amber	HCL	1.0	2	2

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: x Iced Other (describe):

Signature: Jana King Date/Time: 4/29/08/1255

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: MW-9

WELL NUMBER: _____

DATE/TIME: 05/01/08 1211

WEATHER: _____

ANALYSIS:

WELL PURGING DATA

Initial depth to water: 22.62

Depth of well: _____

Screened Interval: _____

Volume of water in well: _____

Method of purging: -LOW FLOW

Purge Rate: _____

Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
<i>Filled with mud</i>								
<i>Megan Gay</i>								
<i>05/01/08</i>								
<i>0508</i>								

Comments: _____

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled

SAMPLE METHOD: Pump Bailer Other _____

FILTERED? Yes No

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: Iced _____ Other (describe): _____

Signature: Megan Gay

Date/Time: 05/01/08 1215

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: mw-10

WELL NUMBER: mw-10

DATE/TIME: 5/1/08

WEATHER: Overcast

ANALYSIS:

WELL PURGING DATA

Initial depth to water: 13.60^{9c} 12.60

Depth of well:

Screened Interval:

Volume of water in well:

Method of purging: -LOW FLOW

Purge Rate:

Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1425	1L	12.80	16.68	6.62	426	0.51	-68.9	828
1428	1.1L	12.90	16.69	6.54	425	0.54	-63.3	686.0
1430	1.2L	12.92	16.85	6.55	419	0.54	-53.8	731.8
1433	1.3L	12.92	17.12	6.47	423	0.52	-44.4	616.2
1436	1.4L	12.91	17.37	6.48	428	0.53	-45.9	568.2
1439	1.5L	12.95	17.72	6.52	430	0.64	-52.4	342.6
1442	1.55L	13.00	17.92	6.51	433	0.81	-55.9	159.7
1445	1.60L	13.01	18.09	6.45	434	0.73	-48.9	122.7
1448	1.65L	13.06	18.02	6.38	435	1.02	-46.1	84.6
1451	1.70L	13.11	18.07	6.35	434	1.20	-30.5	63.0
1453	1.75L	13.12	18.14	6.32	435	1.20	-24.8	51.0
1455	1.80	13.15	18.20	6.27	436	1.26	-13.4	50.3
<i>Regan King</i> 5/1/08								

Comments:

SAMPLE CONTAINER DATA:

SAMPLE METHOD: (Pump) Bailer Other

FILTERED? (Yes) No

Type	Pres.	Volume	No. Required	No. Filled
VOA	HCl	40ml	6	6
Amber	HCl	1L	2	2
Poly	NA	500ml	3	3
Poly	HNO ₃	500ml	1	1
Poly	NA	500ml	1	1
Glass	NaOH ZnAc	500ml	1	1

1 poly

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: x Iced Other (describe):

Signature: *[Signature]*

Date/Time: 5/1/08 1445

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: MW-14

WELL NUMBER: MW-14

DATE/TIME: 4/28/08

WEATHER: Sunny + Cool

ANALYSIS: BETX, G, DX

WELL PURGING DATA

Initial depth to water: 16.89

Depth of well: /

Screened Interval: /

Volume of water in well: /

Method of purging: -LOW FLOW

Purge Rate: /

Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	µs/cm EC/µs/cm (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1537	0	17.05	17.08	6.96	570/485	42.5	-144.9	2032
1539	1 qt	17.05	17.15	6.86	570/485	40.3	-137.2	2031.8
1541	/	17.05	16.98	6.90	573/485	40.2	-129.6	1984.0
1543	/	17.05	16.81	6.86	510/514	49.7	-124.9	1770.9
1545	1/2 gal	17.07	16.80	6.87	623/526	45.1	-124.6	448.7
1547	/	17.08	16.94	6.86	627/531	44.1	-124.6	88.7
1549	/	17.08	16.95	6.86	633/536	57.7	-125.4	47.6
1551	1/2 gal	17.07	16.80	6.83	635/535	57.3	-125.4	29.1
1553	/	17.08	16.95	6.80	636/538	66.8	-127.9	23.1
1555	1.75 gal	17.08	16.81	6.77	644/543	68.5	-127.7	24.9
1557	2.0 gal	17.08	16.76	6.53	642/541	57.4	-127.4	24.3
Juno								

Comments: MW-14 sampled @ 1600
 FB-1-042808 collected @ 1601

SAMPLE CONTAINER DATA:

SAMPLE METHOD: Pump Bailer Other

FILTERED? Yes No

Type	Pres.	Volume	No. Required	No. Filled
MW-14 VOA	HCL	40ml	6	6
MW-14 Dioxin	HCL	1 AMB	2	2
FB VOA	HCL	40ml	6	6

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: Iced Other (describe):

Signature: Juno King

Date/Time: 4/28/08 1600

DI water for FB provided by Lancaster in gallon-sized amber bottle

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: MW-10

WELL NUMBER: MW-16

DATE/TIME: 5/2/08 0740

WEATHER: Overcast, cool

ANALYSIS:

WELL PURGING DATA

Initial depth to water: 17.50 w/pump

Depth of well:

Screened Interval:

Volume of water in well:

Method of purging: -LOW FLOW

Purge Rate:

Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
0744	0	17.50	14.60	7.12	439	2.60	216.5	2798.5
0746		17.51	14.66	7.10	436	2.49	220.0	2756.0
0748		17.52	14.69	7.09	432	2.28	220.4	2002.0
0750		17.51	14.73	7.08	424	2.26	220.4	961.0
0752		17.52	14.74	7.09	417	2.06	219.5	624.0
0754		17.53	14.83	7.09	407	2.30	218.0	287.5
0756		17.53	14.86	7.10	402	2.24	217.0	194.2
0758		17.55	14.87	7.10	391	2.13	215.3	133.2
0800		17.56	14.88	7.10	377	2.14	212.3	89.6
0802		17.59	14.90	7.10	368	2.02	211.1	72.3
0804		17.56	14.91	7.10	360	2.01	209.4	68.0
0806		17.56	14.93	7.10	353	1.90	207.2	54.8
0808	1 gallon	17.56	14.93	7.10	345	1.86	206.0	49.5
0810		17.56	14.95	7.10	339	2.03	204.6	47.5
0812		17.56	14.95	7.10	330	2.14	204.6	45.2

Comments: Collect MW-16 @ 0815

SAMPLE CONTAINER DATA:

SAMPLE METHOD: Pump Bailer Other

FILTERED? Yes No

1 poly

Type	Pres.	Volume	No. Required	No. Filled
Voa	HCl	40ml	6	6
Amber	HCl	1L	2	2
Poly	NA	500ml	1	1
Poly	HNO ₃	500ml	1	1
Poly	NA	500ml	1	1
Glass	ZINC NaOH	500ml	1	1
Poly	NA	500ml	1	1
Filtered Poly	NA	500ml	1	1

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: x Iced Other (describe):

Signature: Megan Say

Date/Time: 0820

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: MW-17

WELL NUMBER: MW-17

DATE/TIME: 5/1/08 1015

WEATHER: _____

ANALYSIS:

WELL PURGING DATA

Initial depth to water: 15.11 w/pump in well

Depth of well: _____

Screened Interval: _____

Volume of water in well: _____

Method of purging: -LOW FLOW

Purge Rate: _____

Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1022	0	15.20	15.34	7.00	245	4.46	-76.3	63.1
1024		15.21	15.40	6.94	247	2.34	-72.1	53.5
1026		15.21	15.48	6.92	248	1.37	-70.6	41.1
1028		15.21	15.50	6.90	252	1.19	-73.1	33.4
1030		15.20	15.61	6.90	257	1.17	-74.6	32.0
1032		15.21	15.67	6.91	259	1.25	-74.6	27.1
1034		15.22	15.70	6.90	255	1.26	-76.5	25.7
1036		15.22	15.70	6.91	260	1.19	-78.6	27.4
1038		15.22	15.70	6.90	262	1.09	-79.4	26.3
SAF 5/1/08								

Comments: Colient MW-17 @ 1100

SAMPLE CONTAINER DATA:

SAMPLE METHOD: Pump Bailer Other _____

FILTERED? Yes No

Type	Pres.	Volume	No. Required	No. Filled
Voa	HCl	40ml	2	2
Amber	HCl	1L	2	2
Poly	NA	500ml	3	3
Poly	HNO3	500ml	1	1
Poly	HNO3	500ml	1	1
Poly	NA	500ml	1	1

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: x Iced _____ Other (describe): _____

Signature: [Signature]

Date/Time: 05/01/08 1100

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: MW-18
 DATE/TIME: 4/29/08 1145
 ANALYSIS:

WELL NUMBER: MW-18
 WEATHER: Partly cloudy, cool

WELL PURGING DATA

Initial depth to water: 16.67 Depth of well:
 Screened Interval: Volume of water in well:
 Method of purging: -LOW FLOW Purge Rate:
 Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1154	0	16.74	15.85	6.92	610/502	52.0	111.8	115.4
1156	60g	16.74	15.62	6.78	602/495	49.8	106.6	89.7
1158	120g	16.73	15.72	6.76	602/494	51.3	60.4	50.6
1200	160g	16.73	15.80	6.76	596/491	53.8	48.0	31.2
1202	250g	16.73	15.74	6.76	590/486	57.1	40.5	33.1
1204	250g	16.73	15.82	6.75	586/484	59.2	39.9	21.6
1206	300g	16.73	15.87	6.75	583/482	60.1	33.8	19.6
<i>Inna King</i>								

Comments: Collected MW-18 @ 1210

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
Voa	HCL	40 ml	6	6
Amber	HCL	1L	2	2

SAMPLE METHOD: Pump Bailer Other

FILTERED? Yes No

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: x Iced Other (describe):

Signature: Inna King Date/Time: 4/29/08

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: 11W-19
 DATE/TIME: 4/29/08 1323
 ANALYSIS: BETX, G, Dy

WELL NUMBER: 11W-19
 WEATHER: Raining

WELL PURGING DATA

Initial depth to water: 10.38 Depth of well:
 Screened Interval: Volume of water in well:
 Method of purging: -LOW FLOW Purge Rate:
 Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1340	0.2	10.52	12.79	6.68	379/291	20.2	59.4	188.1
1343	0.2	10.52	12.71	6.58	378/289	11.0	58.8	83.0
1344		10.51	12.70	6.58	377/288	10.3	54.3	64.3
1346		10.51	12.68	6.51	377/288	8.9	56.3	59.7
1348	1/2 gal	10.50	12.76	6.57	376/288	8.3	56.6	42.6
1350		10.50	12.85	6.56	377/288	8.2	51.6	28.2
1352	1 gal	10.51	12.99	6.55	373/287	7.7	35.6	28.3

Comments: sample at 1355

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
Voc	HL	40ml	6	6
Non-Voc	HL	1L	2	2

SAMPLE METHOD: Pump Bailer Other

FILTERED? Yes No

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: Iced Other (describe):

Signature: Ina Kim

Date/Time: 4/29/08 1355

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: MW-21

WELL NUMBER: MW-21

DATE/TIME: 05/01/08/1109

WEATHER: _____

ANALYSIS:

WELL PURGING DATA

Initial depth to water: 26.41

Depth of well: _____

Screened Interval: _____

Volume of water in well: _____

Method of purging: -LOW FLOW

Purge Rate: _____

Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1115	8	26.50	16.54	6.81	507	3.02	-82.1	34.1
1117		26.52	16.51	6.80	515	1.36	-84.8	54.9
1119		26.56	16.54	6.78	515	1.05	-84.1	27.7
1121		26.57	16.60	6.78	515	0.95	-84.0	31.1
1123		26.58	16.66	6.77	517	0.85	-84.6	15.4
1125		26.59	16.66	6.76	518	0.80	-84.9	38.6
END 5/1/08								

Comments: Collect MW-21 1145

SAMPLE CONTAINER DATA:

SAMPLE METHOD: Pump Bailer Other _____

FILTERED? Yes No

1 Poly

Type	Pres.	Volume	No. Required	No. Filled
Voa	HCl	40ml	6	6
Amber	HCl	1L	2	2
Poly	NA	500ml	3	3
Poly	HNO3	500ml	1	1
Class	NaOH ZnAc	500ml	1	1
Poly	NA	500ml	1	1

Filtered

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: Iced _____ Other (describe): _____

Signature: *[Signature]*

Date/Time: 05/01/08 1145

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: MW-25
 DATE/TIME: 4/28/08/1434
 ANALYSIS: BETX/G, DX

WELL NUMBER: MW-25
 WEATHER: Sunny + Cool

WELL PURGING DATA

Initial depth to water: 17.31 Depth of well:
 Screened Interval: Volume of water in well:
 Method of purging: -LOW FLOW Purge Rate:
 Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1638	0	17.59	16.35	7.06	645/539	177.7	-97.4	80.0
1640		17.64	16.42	7.06	644/538	161.4	-100.3	80.6
1642	1/4 gal	17.69	16.34	7.05	645/538	188.9	-100.8	42.3
1644		17.70	16.22	7.05	645/537	192.6	-101.5	23.7
1646		17.73	16.22	7.06	645/537	200.4	-101.6	9.8
1648		17.76	16.24	7.05	645/537	204.6	-98.9	10.3
1650	1/2 gal	17.78	16.26	7.06	645/537	204.3	-100.2	9.1
<i>Jma King</i>								

Comments: MW-25 collected @ 1655

SAMPLE CONTAINER DATA:

SAMPLE METHOD: Pump Bailer Other
 FILTERED? Yes No

Type	Pres.	Volume	No. Required	No. Filled
VOC	HCL	40 ml	6	6
Amber	HCL	1 l.	2	2

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: Iced Other (describe):

Signature: Jma King Date/Time: 4/28/08/1655

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: MW-26
 DATE/TIME: 05/01/2008 0911

WELL NUMBER: MW-26
 WEATHER: _____

ANALYSIS:

WELL PURGING DATA

Initial depth to water: 16.18 w/ pump in well Depth of well: _____
 Screened Interval: _____ Volume of water in well: _____
 Method of purging: -LOW FLOW Purge Rate: _____
 Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
0914		16.32	14.79	6.92	508	2.29	7.2	204.2
0916		16.33	14.76	6.85	502	1.19	-3.6	164.0
0918		16.31	14.74	6.86	499	9.3	-12.1	162.3
0920		16.33	14.70	6.86	494	0.77	-21.9	129.0
0922		16.24	14.73	6.86	493	0.80	-26.7	116.5
0924		16.37	14.69	6.86	490	0.75	-31.5	99.1
0926		16.35	14.70	6.86	488	0.80	-34.3	90.8
0928		16.29	14.73	6.86	486	0.68	-35.1	90.8 90.0
<i>Megan Jay 05/01/08</i>								

Comments: Sampled at 0945
DUP-7-050108 collected

SAMPLE CONTAINER DATA:

SAMPLE METHOD: Pump Bailer Other _____

FILTERED? Yes No
2 polys

Type	Pres.	Volume	No. Required	No. Filled
VQA	HCl	40ml	12	12
Amber	HCl	1 L	4	4
Poly	NA	500mL	6	6
Poly	HNO3	500mL	2	2
Glass	NaOH ZnAc	500mL	2	2
Poly	NA	500mL	2	2

Filtered

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: x Iced _____ Other (describe): _____

Signature: Megan Jay

Date/Time: 05/01/08 0915

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: MW-30

WELL NUMBER: MW-30

DATE/TIME: 04/30/08

WEATHER: _____

ANALYSIS:

WELL PURGING DATA

Initial depth to water: 24.83

Depth of well: _____

Screened Interval: _____

Volume of water in well: _____

Method of purging: -LOW FLOW

Purge Rate: _____

Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING 90 / mg/L

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (µS/cm)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1229	1.2 L	24.80	18.02	6.55	577/501	22.4	163.8	64.1
1231	1.6 L	24.81	17.84	6.56	577/498	14.4	166.1	71.4
1233	2.75 L	24.82	17.62	6.55	576/494	15.9	169.2	32.5
1235	2.0 L	24.81	16.49	6.52	556/464	18.3	171.5	26.0
1237	2.25 L	24.81	16.40	6.52	541/452	16.3	173.9	17.0
1239	2.5 L	24.81	16.24	6.53	537/448	20.3	173.2	14.3
1241	2.75 L	24.81	16.40	6.54	535/448	20.3/1.94	173.3	10.5
1243	2.85 L	24.81	16.42	6.54	535/447	19.5/1.96	173.2	10.3
1245	2.95 L	24.82	16.35	6.54	537/447	18.7/1.88	172.0	8.6
1247	3.05 L	24.82	16.21	6.56	535/445	18.5/1.82	171.2	3.7
1249	3.25 L	24.82	16.24	6.55	532/443	19.1/1.85	169.8	1.8
1251	3.35 L	24.82	16.18	6.56	522/442	17.7/1.74	168.3	1.2
1253	3.45 L	24.83	16.18	6.57	524/444	17.3/1.70	164.4	0.6
1255	3.55 L	24.83	16.15	6.57	526/445	17.0/1.69	162.4	-0.6

Comments: Sample collected at 1300

SAMPLE CONTAINER DATA:

SAMPLE METHOD: Pump Bailer Other low flow

FILTERED?

Yes No

→ 1 poly w/no pres.

Type	Pres.	Volume	No. Required	No. Filled
<u>COA</u>	<u>HCL</u>	<u>40ml</u>	<u>6</u>	<u>6</u>
<u>Amber</u>	<u>HCL</u>	<u>1L</u>	<u>2</u>	<u>3</u>
<u>Poly</u>	<u>NA</u>	<u>500ml</u>	<u>3</u>	<u>2</u>
<u>Poly</u>	<u>H2O3</u>	<u>500ml</u>	<u>1</u>	<u>1</u>
<u>Poly</u>	<u>NA</u>	<u>500ml</u>	<u>1</u>	<u>1</u>
<u>glass</u>	<u>WASH</u>	<u>500</u>	<u>1</u>	<u>1</u>

filtered

NO HS

30 4/30/08

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: x Iced _____ Other (describe): _____

Signature: [Signature]

Date/Time: 4/30/08 1300

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: MW-31 start sid
 DATE/TIME: 4/30/08 0840/0855
 ANALYSIS: BTEX/6, Dv start = 0900

WELL NUMBER: MW-31
 WEATHER: Partly cloudy, cool

WELL PURGING DATA

Initial depth to water: 20.13 PID = 0.0 ppm Depth of well:
 Screened Interval: Volume of water in well:
 Method of purging: -LOW FLOW Purge Rate:
 Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
0903	0	20.24	13.43	6.67	595/464	18.3	185.7	430.9
0905		20.21	13.21	6.68	593/459	19.4	185.5	402.1
0907		20.21	13.49	6.68	588/459	20.3	185.1	399.9
0909		20.21	13.74	6.68	581/459	21.1	184.6	360.5

Comments: Collect MW-31 @ 0910

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
Voc	HCl	40mL	6	6
Amber	HCl	1L	2	2

SAMPLE METHOD: Pump Bailer Other

FILTERED? Yes No

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: x Iced Other (describe): HCl

Signature: JPL Date/Time: 4/30/08 0910

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: MW-32
 DATE/TIME: 4/29/08 1620
 ANALYSIS: BETX/6, Dx

WELL NUMBER: MW-32
 WEATHER: Raining

WELL PURGING DATA

Initial depth to water: 17.06 Depth of well:
 Screened Interval: Volume of water in well:
 Method of purging: -LOW FLOW Purge Rate:
 Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1634	4	17.36	12.66	7.07	312/229	39.7	145.6	146.1
1636	803	17.40	12.73	7.21	314/241	32.7	156.4	102.8
1638	1202	17.43	12.90	7.02	316/243	19.7	140.6	78.4
1640	74 gal	17.44	13.15	7.00	316/244	16.4	109.4	54.1
1642		17.46	13.17	6.99	316/245	15.3	76.3	37.9
1644		17.44	13.16	6.99	318/246	17.3	44.7	28.2
1646	34 gal	17.43	13.18	6.98	318/246	15.9	39.0	28.6
1648	1 gal	17.43	13.22	6.98	318/247	14.9	14.6	20.8
					END			
						4/29/08		

Comments: Collect MW-32 @ 1650 FB-3-012908 @ 1650

SAMPLE CONTAINER DATA:

SAMPLE METHOD: Pump Bailer Other
 FILTERED? Yes No

Type	Pres.	Volume	No. Required	No. Filled
Ven	HCl	40ml	6	6
Amber	HCl	1L	2	2

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: x Iced Other (describe): HCl

Signature: [Signature] Date/Time: 4/29/08 1650

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: MW-33
 DATE/TIME: 4/28/08 / 1430
 ANALYSIS: BETX, G, DX

WELL NUMBER: MW-33
 WEATHER: Sunny & Cool

WELL PURGING DATA

Initial depth to water: 30.44 Depth of well:
 Screened Interval: Volume of water in well:
 Method of purging: -LOW FLOW Purge Rate:
 Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1444		30.65	14.70	6.68	974/782	87.5	-25.7	4.4
1446	1 T	30.67	14.71	6.68	972/781	80.0	-36.2	4.6
1448	2 T	30.69	14.78	6.70	972/781	87.0	-35.6	6.8
1450	1/2 C	30.70	14.71	6.69	969/779	93.7	-46.6	6.3
1452	3/4 C	30.71	14.69	6.69	968/777	81.2	-49.3	4.6

Comments: Sampled MW-33 @ 1455

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
VOA	HCL	40 ml	6	6
Amber	HCL	1 L	2	2

SAMPLE METHOD: Pump Bailer Other
 FILTERED? Yes No

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: x Iced Other (describe):

Signature: Ima King Date/Time: 4/28/08 / 1452

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: MW-34

WELL NUMBER: MW-34

DATE/TIME: 4/30/08 1420

WEATHER: _____

ANALYSIS:

WELL PURGING DATA

Initial depth to water: 27.15 w/pump down Depth of well: _____
 Screened Interval: _____ well

Method of purging: -LOW FLOW Purge Rate: _____

Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING %/mg/L

Time	Volume Purged	Depth to Water	Temp (°C)	pH	uS/cm EC (mS)	uS/cm	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1429	1 L	27.16	17.35	6.63	418/357	57.5/5.8	112.7	87.7	
1431	1.20L	27.16	17.12	6.50	416/353	54.8/5.21	140.5	110.5	
1433	1.40L	27.17	16.96	6.34	415/351	51.0/4.99	162.2	125.6	
1435	1.60L	27.18	16.76	6.20	416/351	48.7/4.79	179.7	88.5	
1437	1.80L	27.19	16.71	6.16	418/351	47.3/4.57	186.3	81.3	
1439	2.00L	27.18	16.64	6.11	418/352	45.4/4.44	193.9	78.4	
1441	2.20L	27.18	16.60	6.08	420/352	43.4/4.21	199.6	83.2	
1443	2.40L	27.16	16.66	6.02	420/353	41.5/4.01	205.4	51.8	
1445	2.50L	27.19	16.63	6.02	421/353	40.9/3.98	207.0	27.7	
1447	2.70L	27.19	16.59	5.99	422/354	39.2/3.77	212.9	56.2	
1449		27.18	16.59	5.99	422/354	37.9/3.70	214.2	52.1	

Comments: sampled at 1455

SAMPLE CONTAINER DATA:

SAMPLE METHOD: Pump Bailer Other low flow

FILTERED? Yes No
 → 1 poly

Type	Pres.	Volume	No. Required	No. Filled
UOA	HCL	40ml	6	
Ambic	fill	1L	2	
Poly	NA	500ml	3	
Poly	H2O2	500ml	1	
Poly	NA	500ml	1	
glass	Evac wash	500ml	1	

Sample Entered on C.O.C.?

Filtered No HS

SAMPLE PRESERVATION METHOD: x Iced _____ Other (describe): _____

Signature: [Signature] Date/Time: 4/30/08 1510

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: MW-35

WELL NUMBER: _____

DATE/TIME: 05/01/08

WEATHER: _____

ANALYSIS:

WELL PURGING DATA

Initial depth to water: 31.82

Depth of well: _____

Screened Interval: _____

Volume of water in well: _____

Method of purging: -LOW FLOW

Purge Rate: _____

Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
0802		31.95	13.99	6.68	722	2.86	-41.0	158.7
0804		31.85	14.05	6.66	706	1.99	-42.9	149.3
0806		31.86	14.05	6.66	704	1.81	-43.8	126.0
0808		31.86	13.97	6.64	701	1.81	-44.6	44.0
0810		31.84	13.97	6.67	702	1.63	-45.1	40.8
0812		31.85	13.93	6.68	702	1.55	-46.4	46.0
0815		31.86	13.99	6.69	701	1.47	-46.8	37.7
0818		31.86	14.02	6.67	700	1.46	-48.0	37.0
0820		31.86	14.09	6.67	700	1.53	-48.7	29.0
0822		31.86	14.15	6.66	699	1.39	-49.0	22.3
0824		31.86	14.20	6.68	699	1.36	-49.3	37.5
0826		31.86	14.26	6.66	699	1.39	-48.8	29.9
<i>Megan Day</i>								

Comments: sampled at 0830

SAMPLE CONTAINER DATA:

SAMPLE METHOD: Pump Bailer Other _____

FILTERED? Yes No

1 Poly

Type	Pres.	Volume	No. Required	No. Filled
VOA	HCl	40ml	6	6
Amber	HCl	1L	2	2
Poly	NA	500ml	3	3
Poly	HNO ₃	500ml	1	1
Glass	NaOH ZnAc	500ml	1	1
Filtered Poly	NA	500ml	1	1

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: x Iced Other (describe): _____

Signature: Megan Day

Date/Time: 05/01/08 / 0822

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: DPE-1

WELL NUMBER: _____

DATE/TIME: 04/29/08

WEATHER: _____

ANALYSIS:

WELL PURGING DATA

Initial depth to water: 16.74

Depth of well: 23.70

Screened Interval: _____

Volume of water in well: _____

Method of purging: -LOW FLOW

Purge Rate: _____

Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. % (mg/L)	Redox (mVolts)	Turbidity (NTU)
1249	0	16.64	17.09	6.72	416/352	12.0	-10.4	240.2
1251		16.66	16.23	6.61	511/426	5.5	-9.7	61.7
1253		16.65	16.10	6.60	531/442	5.1	1.7	133.0
1255		16.65	16.12	6.60	540/449	4.7	3.0	211.0
1257		16.65	16.03	6.60	553/458	4.0	5.6	409.3
1259		16.65	15.89	6.61	556/459	3.7	1.2	380.1
1301	2.5	16.65	15.80	6.60	556/458	4.0	10.4	369.4
<i>Megan Stoy</i>								

Comments: Sampled at 1303
DUP-4-042908

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
40ml VOA HCL			6	
Amber HCL		1 L	2	
VOA HCL		40ml	6	
Amber HCL		1 L	2	

SAMPLE METHOD: Pump Bailer Other low flow

FILTERED? Yes No

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: Iced _____ Other (describe): _____

Signature: Megan Stoy

Date/Time: 04/29/08 / 1304

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: DPE-2

WELL NUMBER: DPE-2

DATE/TIME: 04/29/08

WEATHER: clear + sunny

ANALYSIS:

WELL PURGING DATA Pump removed

Initial depth to water: 17.10 from TOC

Depth of well: 24.50

Screened Interval: -

Volume of water in well: -

Method of purging: -LOW FLOW

Purge Rate: -

Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	µs/cm EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1148	∅	17.17	16.62	6.71	415/457	38.7	21.3	2.0
1150		17.18	16.60	6.67	412/454	18.0	6.4	1.1
1152		17.19	16.58	6.66	531/448	13.2	4.9	-0.3
1154		17.19	16.59	6.66	535/449	11.1	7.1	-1.2
1156		17.19	16.61	6.66	534/449	10.3	9.4	-1.8
1158		17.19	16.51	6.66	536/450	10.0	7.9	-1.8
1200		17.19	16.49	6.66	535/448	9.1	7.5	-2.1
1202		17.19	16.67	6.66	534/449	8.5	4.8	-2.6
1204	1.5 gal	17.19	16.71	6.65	533/449	8.1	8.1	-3.9

Comments: Sampled at 1207

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
Amber HCL		12	2	
UDA HCL		40ml	6	

SAMPLE METHOD: Pump Bailer Other low flow

FILTERED? Yes No

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: x Iced - Other (describe): -

Signature: [Signature]

Date/Time: 4/29/08 1200

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: DPE-3

WELL NUMBER: DPE-3

DATE/TIME: 4/29/08

WEATHER: Rain + cold

ANALYSIS:

WELL PURGING DATA

Initial depth to water: 20.29

Depth of well:

Screened Interval:

Volume of water in well:

Method of purging: -LOW FLOW

Purge Rate:

Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

Total Depth 20.30

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	µS/cm	EC (mS/cm)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1403	0	20.78	14.96	7.02	567/458		21.0	15.8	39.3
1405		20.89	14.98	7.03	567/459		19.0	8.2	29.6
1407		20.96	14.95	7.04	569/459		18.3	4.6	31.0
Well went dry. Waited for recharge until 1453 + still no water, unable to sample									

Comments: _____

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled

SAMPLE METHOD: Pump Bailer Other _____

FILTERED? Yes No

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: x Iced _____ Other (describe): _____

Signature: [Signature]

Date/Time: _____

2

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: DPE-4
 DATE/TIME: 4/30/08 / pumping 1114
 ANALYSIS: BETX/G, DX

WELL NUMBER: DPE-4
 WEATHER: Sunny + cool

WELL PURGING DATA

Initial depth to water: 19.02 Depth of well: 23.5'
 Screened Interval: Volume of water in well: 4'
 Method of purging: -LOW FLOW Purge Rate:
 Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1120	0	19.48	14.74	7.53	1032/830	6.2	-225.0	580.5
1124	 	18.65	14.70	7.55	1026/832	5.1	-227.6	565.0
1130	 	18.75	14.70	7.55	1030/832	5.1	-227.6	5105.0
1128	<u>1/4 gal</u>	<u>18.77</u>	<u>15.00</u>	<u>7.62</u>	<u>1033/837</u>	<u>4.3</u>	<u>-237.0</u>	<u>377.3</u>
1130	<u>1/4 gal</u>	<u>18.95</u>	<u>15.15</u>	<u>7.62</u>	<u>1031/841</u>	<u>3.8</u>	<u>-238.2</u>	<u>451.3</u>
<u>1132</u>	<u>1/4 gal</u>	<u>19.08</u>	<u>15.25</u>	<u>7.63</u>	<u>1030/843</u>	<u>3.1</u>	<u>-241.3</u>	<u>400.8</u>
<i>Mark King</i>								

Comments: Puller pump & manual DIW from JOC = 19.02'
Collect DPE-4 @ 1135, DUP-5-043008

SAMPLE CONTAINER DATA: SAMPLE METHOD: Pump Bailer Other

FILTERED? Yes No

Type	Pres.	Volume	No. Required	No. Filled
<u>100 mL</u>	<u>HCL</u>	<u>40 mL</u>	<u>6</u>	<u>6</u>
<u>100 mL</u>	<u>HCL</u>	<u>1 L</u>	<u>2</u>	<u>2</u>
<u>100 mL</u>	<u>HCL</u>	<u>40 mL</u>	<u>6</u>	<u>6</u>
<u>100 mL</u>	<u>HCL</u>	<u>1 L</u>	<u>2</u>	<u>2</u>

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: x Iced Other (describe):

Signature: Mark King Date/Time: 4/30/08 / 1135

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: DPE-5
 DATE/TIME: 4/29/08/0943
 ANALYSIS: BETA/GI/DX

WELL NUMBER: DPE-5
 WEATHER: Cloudy + Cold

WELL PURGING DATA

Initial depth to water: 20.30 Depth of well:
 Screened Interval: Volume of water in well:
 Method of purging: -LOW FLOW Purge Rate:
 Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged (GAL)	Depth to Water	Temp (°C)	pH	EC $\mu S/cm$ / $\mu S/cm$	D.O. % (mg/L)	Redox (mVolts)	Turbidity (NTU)
0947	0	20.80	14.22	7.05	774/614	125.4	-109.2	1975.2
0949	0.25	22.96	14.37	7.01	765/609	129.8	-112.4	1980.1
0951	0.30	21.13	14.38	7.00	763/608	132.5	-114.1	1978.0
0953	0.35	21.32	14.40	7.00	760/606	136.4	-116.0	1980.7
0955	0.45	21.97	14.38	7.00	758/604	139.5	-118.8	1957.7
0957	0.50	21.61	14.37	7.00	756/603	140.9	-119.7	1975.3

~~DATA~~ 4/29/08

Comments: Collect DPE-5 @ 1000

DPE-DUP-3-DXF-042908

SAMPLE CONTAINER DATA:

SAMPLE METHOD: Pump Bailer Other

FILTERED? Yes No

Type	Pres.	Volume	No. Required	No. Filled
Vials	HCL	40 ml	6	6
Amber	HCL	1 L	2	2
Amber	HCL	1 L	2	2

-Diesel Dup

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: x Iced Other (describe): HCL

Signature: Imke King

Date/Time: 4/29/08/1000

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: DPE-6 WELL NUMBER: DPE-60
 DATE/TIME: 4/24/08 / 0825 ^{start pumping} WEATHER: Cloudy, Cool
 ANALYSIS: _____

WELL PURGING DATA

Initial depth to water: 23.73 Depth of well: _____
 Screened Interval: _____ Volume of water in well: _____
 Method of purging: -LOW FLOW Purge Rate: _____
 Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
0831	1/4 gal	23.05	16.61	6.85	1461	188.2	-153.4	32.8
0833		23.14	16.76	6.86	1755/1482	220.5	-160.4	22.0
0835		23.16	16.80	6.87	1761/1485	201.5	-160.2	18.5
0837		23.23	16.85	6.87	1751/1484	205.1	-158.4	18.0
0839	1/2 gal	23.26	16.89	6.81	1754/1482	216.5	-157.1	16.4
0841		23.29	16.98	6.79	1748/1480	227.4	-135.6	15.0
0843		23.31	17.04	6.77	1744/1479	234.9	-154.7	15.7

Comments: Collected DPE-6 @ 0845
DUP-1-DXF-072408 collected @ 0845

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
VOAG	HCL	40ml	6	6
Ambr	HCL	1L	4	4

SAMPLE METHOD: Pump Bailer Other _____

FILTERED? Yes No

Sample Entered on C.O.C.?

2-1 liter subsamples are filtered

SAMPLE PRESERVATION METHOD: Iced _____ Other (describe): _____

Signature: Ima King Date/Time: 4/24/08 / 0845

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.:

WELL NUMBER: DPE-7

DATE/TIME: 4/29/08 0854

WEATHER: _____

ANALYSIS:

Needed to put pump from well. Tubing installed on second DTW meter. Tubing intake at 27" b.c.

WELL PURGING DATA

Initial depth to water: 22.62 (Top of well cap)

Depth of well: _____

Screened Interval: _____

Volume of water in well: _____

Method of purging: -LOW FLOW

Purge Rate: _____

Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

Total 30.14

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water TOC	Temp (°C)	pH	EC (mS/cm)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
0858	0	22.50	15.49	6.62	924/756	24.5	16.8	137.9
0858	-	22.52	15.55	6.62	921/756	16.0	11.4	120.2
0900	-	22.53	15.55	6.62	927/760	13.8	7.5	112.9
0902	1/4 gal	22.54	15.56	6.62	929/762	12.0	5.8	115.7
0904	-	22.55	15.57	6.63	930/763	8.8	4.7	104.5
0906	-	22.56	15.59	6.62	930/763	8.0	3.7	102.2
0908	1/2 gal	22.57	15.65	6.61	927/762	7.7	6.0	97.8

Comments: Sampled at 0912

SAMPLE CONTAINER DATA:

SAMPLE METHOD: Pump Bailer Other low flow

Type	Pres.	Volume	No. Required	No. Filled
Amber	Hel	1L	2	2
Amber	Hel	1L	2	2
COA	Hel	40ml	6	6

FILTERED?

Yes No

Sample Entered on C.O.C.?

DTW measurements collected today were from TOC not Top of well cap.

SAMPLE PRESERVATION METHOD: x Iced _____ Other (describe): _____

Signature: [Signature]

Date/Time: 4/29/08 0943

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: DPE-8

WELL NUMBER: DPE-8

DATE/TIME: 4/29/08 1314

WEATHER: overcast w/ rain

ANALYSIS:

WELL PURGING DATA

Initial depth to water: 23.41 20.68

Depth of well:

Screened Interval:

Volume of water in well:

Method of purging: -LOW FLOW

Purge Rate:

Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

Total Depth 23.41

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (µS/cm)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1522		21.15	14.07	7.19	1050/835	2.7	-166.9	98.0
1529		21.30	14.05	7.17	1058/837	5.3	-160.9	93.6
1531		21.42	14.02	7.16	1058/836	2.9	-168.5	93.4
1533		21.48	13.91	7.15	1051/828	2.6	-174.0	91.7
1535		21.56	13.85	7.14	1041/819	2.5	-174.3	92.0
1537		21.65	13.79	7.14	1032/811	2.4	-175.7	93.2
1539		21.73	13.75	7.13	1014/796	2.1	-170.3	87.9
1541		21.82	13.75	7.11	1008/791	2.3	-167.4	87.4
1543		21.91	13.69	7.09	998/783	2.6	-165.9	86.8
1545		21.99	13.69	7.06	973/763	4.7	-144.9	81.7
1547	<u>Yield</u>	22.01	13.70	7.03	953/747	7.0	-117.2	80.1

black

Comments: Brown product looking film on end of probe, Field Blank collected Medium stream/moderate, black sludge in tube
 SAMPLE CONTAINER DATA: SAMPLE METHOD: Pump Bailer Other FB-2 at this well

Sampled @ 1640

FILTERED? Yes No

2 Ambers

Filtered DI H₂O

Type	Pres.	Volume	No. Required	No. Filled
Amber HD	IL	1L	2	0.25
Amber HD	IL	1L	2	0
10A	IL	40ml	6	6
10A	IL	40ml	6	6

Sample Entered on C.O.C.?

Well pumped dry at 1548 wanted to recharge. Able to get some water to fill up to part of Ambers, NO recharge if second tube

SAMPLE PRESERVATION METHOD: x Iced Other (describe):

Signature: [Signature]

Date/Time: 4/29/08 1712

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: DPE-9 start

WELL NUMBER: DPE-9

DATE/TIME: 4/30/08 / 1234

WEATHER: Sunny + cool

ANALYSIS: BTEX/6, DX

WELL PURGING DATA

Initial depth to water: 18.96

Depth of well: 21.5 19.12

Screened Interval: _____

Volume of water in well: _____

Method of purging: -LOW FLOW

Purge Rate: _____

Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Table with 9 columns: Time, Volume Purged, Depth to Water, Temp (°C), pH, EC (mS), D.O. (mg/L), Redox (mVolts), Turbidity (NTU). The table is mostly empty with a diagonal line and handwritten text 'pump dry before readings'.

Comments: pulled pump & measured DIW from casing top dumped

SAMPLE CONTAINER DATA:

SAMPLE METHOD: Pump Bailer Other

FILTERED? Yes No

Table with 5 columns: Type, Pres., Volume, No. Required, No. Filled. The table is mostly empty with a diagonal line.

Sample Entered on C.O.C.? []

SAMPLE PRESERVATION METHOD: x Iced Other (describe): _____

Signature: Jma King

Date/Time: 4/30/08

GROUNDWATER SAMPLE COLLECTION DATA FORM*

SAMPLE ID NO.: RW-2
 DATE/TIME: 4/29/08 1422
 ANALYSIS:

WELL NUMBER: RW-2
 WEATHER: cloudy, cool

WELL PURGING DATA

Initial depth to water: 17.29 Depth of well:
 Screened Interval: Volume of water in well:
 Method of purging: -LOW FLOW Purge Rate:
 Method of decontaminating: Liquinox Solution wash-tap rinse-ASTM Type II rinse-isopropanol rinse

WATER QUALITY OBSERVATIONS DURING PURGING

Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1445	0	17.39	13.64	6.55	281/220	17.4	23.0	65.0
1447	44gal	17.42	13.90	6.55	281/221	10.2	11.0	61.0
1449		17.45	13.95	6.55	280/221	7.3	4.1	57.9
1451	42gal	17.49	14.09	6.55	280/222	5.7	-0.5	53.1
1453	3/4gal	17.52	14.05	6.55	280/222	4.7	-2.7	52.7
<i>SD 4/29/08</i>								

Comments: Collect RW-2 @ 1455

SAMPLE CONTAINER DATA:

SAMPLE METHOD: Pump Bailer Other

FILTERED? Yes No

Type	Pres.	Volume	No. Required	No. Filled
<u>W</u>	<u>HCl</u>	<u>40ml</u>	<u>6</u>	<u>6</u>
<u>Amb</u>	<u>HCl</u>	<u>1L</u>	<u>2</u>	<u>2</u>

Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: x Iced Other (describe): HCl

Signature: [Signature]

Date/Time: 4/29/08/1455

Attachment C:
Groundwater Gauging and Sampling Field Data Sheets November 2008

November 2008 Monitoring and Sampling Form
 Former Texaco/Chevron Site No. 211577
 631 Queen Anne Ave North, Seattle, WA

Water level Indicator #1 - white used on 11/3/08 for all DTW measurements and 11/21/08

*105.11
 (new casing elevation)

Well ID	DTW Measurements							Samples Collected					Notes
	Casing Rim Elev. (feet)	Date Measured	Time (24 hr)	DTP	DTW	GW Elev (feet)	Water Level Indicator #	Date Measured	Time (24 hr)	DTW	Water Level Indicator #	Parameters	
VP-2	104.72	11/3/08		—	14.70	90.35	1						
VP-4	103.35	11/3/08		—			1					TPH-G, TPH-D, TPH-O, BTEX	If this well is dry, sample DPE-2 ✓ Dry @ 13.92 ft
VP-9	112.35	11/3/08		—	12.49		2						Dry to 12.49 ft, PID=φ
MW-3	100.48	11/3/08		—			1						Dry to 12.40 ft
MW-4	102.08 101.95	11/3/08		—	13.85	88.10	1	11/10/08	1340	13.80		TPH-G, TPH-D, TPH-O, BTEX, MNA	
MW-5	102.63	11/3/08		—	14.30	88.33	1	11/4/08	1139	14.34	2	TPH-G, TPH-D, TPH-O, BTEX	
MW-6	113.32 113.12	11/3/08		—	20.93	92.19	2	11/10/08	1155	20.73		TPH-G, TPH-D, TPH-O, BTEX, MNA (DUP, FB)	PID=φ
MW-7	104.88	11/3/08		—	13.98	90.90	1	11/7/08	1305	14.02		TPH-G, TPH-D, TPH-O, BTEX, MNA	
MW-9	114.65 114.27	11/3/08		—	21.29	92.98	2	11/10/08	1151	21.12		TPH-G, TPH-D, TPH-O, BTEX, MNA	PID=57.φ
MW-10	115.75 115.28	11/3/08		—	12.66	102.62	2	11/10/08	1030	12.14		TPH-G, TPH-D, TPH-O, BTEX, MNA	PID=φ
MW-11	97.32	11/3/08		—			1						distraction @ 11 ft
MW-12	113.36	11/3/08		—	12.16	101.20	2						PID=φ
MW-13	114.8	11/3/08		—	19.08	95.72	2						PID=φ
MW-14	101.56	11/3/08		—	13.60	87.90	1	11/4/08	0930	13.69	1	TPH-G, TPH-D, TPH-O, BTEX	
MW-15	99.03	11/3/08		—	11.35	87.68	1	11/7/08	1445	11.20		TPH-G, TPH-D, TPH-O, BTEX, MNA	
MW-16	101.85 101.75	11/3/08		—	14.13	87.62	1	11/6/08	0915	14.16		TPH-G, TPH-D, TPH-O, BTEX, MNA	
MW-17	99.29	11/3/08		—	11.73	87.56	1	11/6/08	1120	11.78		TPH-G, TPH-D, TPH-O, BTEX, MNA (DUP, FB)	
MW-18	101.52	11/3/08		—	13.45	88.07	1	11/7/08	1345	13.45		TPH-G, TPH-D, TPH-O, BTEX, MNA	
MW-19	101.18	11/3/08		—	13.14	88.04	1						
MW-20	105.64	11/3/08		—	3.10	97.54	1						

bc
 or
 1
 GC

November 2008 Monitoring and Sampling Form
 Former Texaco/Chevron Site No. 211577
 631 Queen Anne Ave North, Seattle, WA

Well ID	DTW Measurements							Samples Collected					Notes
	Casing Rim Elev. (feet)	Date Measured	Time (24 hr)	DTP	DTW	GW Elev (feet)	Water Level Indicator #	Date Measured	Time (24 hr)	DTW	Water Level Indicator #	Parameters	
MW-21	94.76	11/3/08		-	26.23	168.53	1	11/6/08	0950	26.28		TPH-G, TPH-D, TPH-O, BTEX, MNA	
MW-23	107.82	11/3/08		-	9.44	98.38	2						PID=φ, DTW from 2" casing, not 1"
MW-24	107.95	11/3/08		-	7.15	107.30	1						
MW-25	101.96	11/3/08		-	14.08	87.88	1	11/4/08	0830	14.20	1	TPH-G, TPH-D, TPH-O, BTEX	
MW-26	100.47	11/3/08		-	12.82	87.65	1	11/6/08	1115	12.83		TPH-G, TPH-D, TPH-O, BTEX, MNA	
MW-30	80.88 91.81			-	24.85	66.96	1	11/6/08	1300	24.88		TPH-G, TPH-D, TPH-O, BTEX, MNA, <u>FB</u>	
MW-31	87.22			-	20.11	67.11	1	11/4/08	1215	20.20	1	TPH-G, TPH-D, TPH-O, BTEX	
MW-32	101.09			-	13.56	87.85	1	11/4/08	1015	13.60	1	TPH-G, TPH-D, TPH-O, BTEX	
MW-33	100.36			-	29.62	70.74	1	11/4/08	1100	29.81	1	TPH-G, TPH-D, TPH-O, BTEX	
MW-34	94.35			-	27.19	67.16	1	11/6/08	1440	27.24		TPH-G, TPH-D, TPH-O, BTEX, MNA	
MW-35	100.52			-	31.48	69.04	1	11/5/08	1115	31.56		TPH-G, TPH-D, TPH-O, BTEX, MNA	
DPE-1, IP	101.9	11/3/08		-	13.50	88.13	1						Top of Cap
DPE-2, IP	102.17 102.51 104.02	11/3/08		-	14.06	88.48	1	11/4/08	1115	14.12	2	TPH-G, TPH-D, TPH-O, BTEX	Sample if VP-4 is dry Top of casing
DPE-3	103.93	11/3/08		-	14.30	89.63	1						
DPE-4	102.96	11/3/08		-	14.14	88.25	1						
DPE-5	113.82	11/3/08		-	22.45	91.37	2	11/3/08	1555	22.46	-	TPH-G, TPH-D, TPH-O, BTEX	PID=φ
DPE-6, IP	113.32 114.14	11/3/08		-	21.30	92.84	2	11/4/08	0840 1000	21.30	2	TPH-G, TPH-D, TPH-O, BTEX	PID=139.3, DTW from cap
DPE-7, IP	113.153	11/3/08		2095	20.96	92.18	2						DTW from cap, PID=21.3
DPE-8, IP	104.83 104.49	11/3/08		-	15.51	88.98	1	11/6/08	1255	15.51		TPH-G, TPH-D, TPH-O, BTEX, MNA	
DPE-9	103.38	11/3/08		-	15.06	88.40	1						

103.46

November 2008 Monitoring and Sampling Form
 Former Texaco/Chevron Site No. 211577
 631 Queen Anne Ave North, Seattle, WA

Well ID	DTW Measurements							Samples Collected					Notes
	Casing Rim Elev. (feet)	Date Measured	Time (24 hr)	DTP	DTW	GW Elev (feet)	Water Level Indicator #	Date Measured	Time (24 hr)	DTW	Water Level Indicator #	Parameters	
RW-2	106.63	11/3/08		—	15.66	90.97	1	11/4/08	1005	15.73	2	TPH-G, TPH-D, TPH-O, BTEX	

IP = Interface Probe

FB = Field Blank: Sample for BETX, NWTPH-G and NWTPH-Dx (including heavy oil) with silica gel cleanup

DUP = Duplicate: Sample for BTEX, NWTPH-G, NWTPH-Dx (inclu heavy oil) with silica gel cleanup.

MNA = Sample for Sulfate, alkalinity, total iron and Manganese, Sulfide, Nitrate, nitrite and Ferrous iron (Nitrate, Nitrite and Ferrous Iron go to Test America)

Trip Blanks = Sample for BTEX and NWTPH-G

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: MW-5
 DATE/TIME: 11/4/08 / 1139
 ANALYSIS: BTEX/G, DX

WELL NUMBER: MW-5
 WEATHER: Cool + Cloudy

WELL PURGING DATA

Initial depth to water: 14.34
 Screened Interval: _____
 Method of purging: Peristaltic Pump
 Method of decontaminating: Liquinox + DI Water

Depth of well: 16.5
 Volume of water in well: 0.37 (2")
 Purge Rate: _____

WATER QUALITY OBSERVATIONS DURING PURGING

Date/Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1141 - 11/4/08	<1.5 gal	14.45	15.8	5.61	54.0	0.61	129	70.9
1143		14.47	15.9	5.16	49.9	0.00	178	36.9
1145		14.47	16.0	5.04	50.2	0.00	202	29.0
1147		14.47	16.0	4.94	50.9	0.00	203	21.6
1149		14.47	16.0	4.91	51.9	0.00	194	33.0
1151		14.49	16.0	4.92	52.8	0.00	178	30.2
1153		14.49	16.0	4.93	52.2	0.00	170	30.3
1155		14.49	16.0	4.95	52.5	0.00	157	38.7
		14.49	16.0	4.97	53.0	0.00	150	38.5
	1.5 gal							

Comments: DO malfunctioning on Hobo

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
VOA HCl		40ml	0	0
Amber HCl		1L	2	2

SAMPLE METHOD: Peristaltic Pump Bailer Other _____

FILTERED? Yes No

Photograph Taken? yes on 11/3/08
 Sample Entered on C.O.C.? Yes

SAMPLE PRESERVATION METHOD: Iced _____ Other (describe): Sample time

Signature: Jana King

Date/Time: 11/4/08 1205

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: MW-6
 DATE/TIME: 11/10/08 / 1138
 ANALYSIS: Biex/G, D+, MNA

WELL NUMBER: MW-6
 WEATHER: Partly Cloudy + Cool

WELL PURGING DATA

Initial depth to water: 20.73
 Screened Interval:
 Method of purging: peristaltic pump
 Method of decontaminating: Liquimax + DF water

Depth of well: 28.32
 Volume of water in well: 7.59 m 1.29 (2")
 Purge Rate:

Drop down DO meter 11/10
 = 1.06 mg/L

WATER QUALITY OBSERVATIONS DURING PURGING

1140
1142
1444
1446
1448
1450

Date/Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
11/10/08	23/432	20.85	16.12	5.38	1664	2.32	144.6	2.0
		20.86	16.04	5.35	1386	2.34	144.7	2.0
		20.86	16.02	5.34	1387	1.50	149.2	1.9
		20.86	16.01	5.33	1388	2.19	146.2	1.6
		20.87	15.97	5.33	1388	2.16	139.2	1.6
		20.87	15.97	5.33	1389	2.10	132.5	1.1
<u>3/4 gal</u>								

Comments: DUP-1-11008 + MW-6-FB obtained

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
Vials	HCL	40ml	16	16
Amber	HCL	1L	2	2
Green	NO3	500ml	1	1
Blue	NO3	500ml	3	3
DUP	NO3	500ml	1	1

x2 for DUP
+6 Vials FB

1225 Peristaltic
 SAMPLE METHOD: Pump Bailer Other

FILTERED? Yes No
Ferric Iron Sample Field Filtered

Photograph Taken? yes on 11/3/08
 Sample Entered on C.O.C.? yes

SAMPLE PRESERVATION METHOD: Iced Other (describe):

Signature: JMA King

Date/Time: 11/10/08 / 1155 Sample Sealed

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: MW-7
 DATE/TIME: 11/7/08 1225
 ANALYSIS: BTEX/G Dx, MNA

WELL NUMBER: MW-7
 WEATHER: Cloudy, cool


WELL PURGING DATA

Initial depth to water: 14.02
 Screened Interval:
 Method of purging: Peristaltic Pump
 Method of decontaminating: Liquinox + DI Water

Depth of well: 17.9
 Volume of water in well: 3.58 m³ (126 gal)
 Purge Rate:

Down Hole DO Meter 11/7/08
DO = 1.79 mg/l

WATER QUALITY OBSERVATIONS DURING PURGING

11/7/08


Date/Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)/cm	D.O. (mg/L)	Redox ORP (mVolts)	Turbidity (NTU)
1252	0.1L	14.05	16.10	6.87	512	1.18	88.7	3.9
1254	0.2L	14.01	16.09	6.55	516	1.35	80.1	2.9
1256	0.3L	14.01	16.07	6.55	513	1.28	75.4	1.5
1258	0.4L	14.00	16.04	6.54	506	1.53	69.4	2.8
1300	0.6L	14.03	16.01	6.53	505	1.63	67.0	2.4
1302	0.8L	14.68	16.07	6.53	501	1.59	64.1	1.8
1304	1.0L	14.69	16.03	6.52	501	1.64	62.8	1.8

Comments:

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
Polu	-	500ml	3	3
Polu	HNO ₃	500ml	1	1
Polu	H ₂ SO ₄	500ml	1	1
Polu	NaOH	500ml	1	1
VOA	HCl	400ml	1	1

Amber Hol 1L 2 2

SAMPLE METHOD: Peristaltic Pump Bailer Other

FILTERED? Yes No
Ferrus: Iron Sample field filtered

Photograph Taken? Yes 11/7/08
 Sample Entered on C.O.C.? Yes

SAMPLE PRESERVATION METHOD: Iced Other (describe):

Signature: [Signature]

Date/Time: 11/7/08 1305 Sample time

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: MW-9

WELL NUMBER: MW-9

DATE/TIME: 11/10/2008 115

WEATHER: Cloudy

ANALYSIS: BTEX/g, Dx, MNA

WELL PURGING DATA

Initial depth to water: 21.12

Depth of well: 27.7

Screened Interval: -

Volume of water in well: 1.12 gal ± (2")

Method of purging: Peristaltic Pump

Purge Rate: 0.0084/min

Method of decontaminating: Liquinox + DI water

WATER QUALITY OBSERVATIONS DURING PURGING

11/10/08
↓

Date/Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1140	1.0	22.58	17.27	7.05	1032	1.48	-166.0	20.2
1142	1.1	22.63	17.21	7.05	1034	1.36	-163	24.2
1144	1.2	22.67	17.22	7.05	1033	1.46	-161.5	20.3
1146	1.23	22.65	17.13	7.05	1033	1.54	-163	15.4
1148	1.25	22.68	17.08	7.04	1032	1.43	-161.2	16.7
1150	1.27	22.71	17.09	7.03	1033	1.46	-165.2	15.2

Comments: Unable to obtain down hole DO meter readings - probe blocked from sample depth by silt or obstruction

SAMPLE CONTAINER DATA:

SAMPLE METHOD: Peristaltic Pump Bailer Other _____

FILTERED? Yes No
Ferrus Iron Sample Field Filtered

Type	Pres.	Volume	No. Required	No. Filled
Voa	HCl	40ml	6	6
Ambr	HCl	16	2	2
Phy	H ₂ O	5L	1	1
Poly	-	5L	3	3
Glass	NaOH 2M	5L	1	1
Poly	HNO ₃	5L	1	1

Photograph Taken? Yes on 11/3/08

Sample Entered on C.O.C.? Yes

SAMPLE PRESERVATION METHOD: Iced Other (describe): _____

Signature: [Signature]

Date/Time: 11/10/08 1151 Sample time

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: MW-10
 DATE/TIME: 11/10/08 / 1000
 ANALYSIS: BTEX/G, Dx, MNA

WELL NUMBER: MW-10
 WEATHER: Cloudy + Cool

WELL PURGING DATA

Initial depth to water: 12.14
 Screened Interval: _____
 Method of purging: Peristaltic Pump
 Method of decontaminating: Liquorix + DI Water

Depth of well: 29.15
 Volume of water in well: + 7.0 ft³ @ 2.89 (2")
 Purge Rate: 7.5 gpm

Drop down DO meter 1100K
 DO = 1.19 mg/l

WATER QUALITY OBSERVATIONS DURING PURGING

1006
 1008
 1010
 1012
 1014
 1016

Date/Time	Volume Purged (gal)	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
11/10/08	242	12.45	17.88	6.86	3895	1.19	41.2	0.3
		12.53	17.92	6.87	400	.61	11.2	0.3
		12.57	18.06	6.87	404	.75	8.2	0.0
		12.59	18.06	6.86	406	.67	2.5	0.2
		12.64	17.98	6.89	405	.64	0.8	0.0
		12.68	18.09	6.83	405	.73	11.2	0.1

Comments: _____

SAMPLE CONTAINER DATA:

poly 500ml 1

Type	Pres.	Volume	No. Required	No. Filled
VOS	HCL	40 ml	6	6
Ambion	HCL	10	2	2
CSTOAS	MNA	500 ml	1	1
POM		500ml	3	3
POM		500 ml	1	1
poly		500 ml	1	1

SAMPLE METHOD: Peristaltic Pump Bailer Other _____

FILTERED? Yes No
 Ferris Iron Sample field filtered

Photograph Taken? yes 11/3/08
 Sample Entered on C.O.C.? yes

SAMPLE PRESERVATION METHOD: x Iced Other (describe): sample ju

Signature: Jma King

Date/Time: 11/10/08 / 1030

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: MW-14
 DATE/TIME: 11/4/08 0900

WELL NUMBER: MW-14
 WEATHER: Cloudy Rainy

ANALYSIS: DTEX/G, Dx

WELL PURGING DATA

Initial depth to water: 13.69
 Screened Interval:
 Method of purging: Lo Flo Peristaltic Pump
 Method of decontaminating: Liquinox + DI water

Depth of well: 20'
 Volume of water in well: 1.07 (2")
 Purge Rate: 0.03 gal/min

WATER QUALITY OBSERVATIONS DURING PURGING

11/4/08
↓

Date/Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
0910	1 L	13.74	15.6	6.64	725	—	49	0
0913	1.1L	13.75	15.9	6.63	728	—	65	1.8
0916	1.2L	13.75	16.0	6.60	728	—	74	0.0
0919	1.3L	13.75	15.9	6.60	729	—	82	0.0
0922	1.4L	13.75	15.9	6.58	730	—	88	0.0
0926	1.5L	13.75	16.0	6.58	731	—	93	0.0
#2								

Comments: DO on Hontbe malfunctioning

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
Amber	HCl	1L	2	2
Vs2	HCl	400ml	6	6

SAMPLE METHOD: Peristaltic Pump Bailer Other _____
 FILTERED? Yes No

Photograph Taken? Yes on 11/3/08
 Sample Entered on C.O.C.? Yes

SAMPLE PRESERVATION METHOD: Iced Other (describe): _____

Signature: [Signature]

Date/Time: 0930 11/4/08

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: MW-15
 DATE/TIME: 11/7/08 1415
 ANALYSIS: BTEX(G), Dx, MNA

WELL NUMBER: MW-15
 WEATHER: Rainy

WELL PURGING DATA

Initial depth to water: 11.20
 Screened Interval: 10'-25'
 Method of purging: Low Flow-Peristaltic Pump
 Method of decontaminating: Low X + DI water

Depth of well: 25' ~ 18' sample depth
 Volume of water in well: ~235 (2)
 Purge Rate: _____

WATER QUALITY OBSERVATIONS DURING PURGING

down hole DO meters 11'
 DO = 6.6 mg/L

11/7/08


Date/Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1424	~1.2	11.41	15.83	6.28	141	4.87	110.3	55.0
1426	~1.05	11.48	15.83	6.15	136 136	4.93	119.1	41.0
1428	~1.1	11.52	15.85	6.10	135	5.03	123.6	31.0
1430	~1.15	11.53	15.86	6.07	136 136	5.29	124	22.8
1432	~1.20	11.55	15.86	6.06	137	5.57	131	25.8
1434	~1.25	11.56	15.87	6.05	136	5.77	135.5	21.7
1436	~1.3	11.57	15.88	6.03	136	5.84	128.6	20.7
1438	~1.35	11.58	15.88	6.03	135	5.85	139.6	18.7

Comments: _____

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
Volt	HCl	0.4L	6	6
Amber	HCl	0.4L	2	2
Poly	HNO ₃	.5L	2	1
Poly	—	.5L	3	3
Glass	2NAD	.5L	1	1

SAMPLE METHOD: Peristaltic Pump Bailer Other _____

FILTERED? Yes No
 Ferris Iron Sample field filtered

Photograph Taken? yes on 11/7/08
 Sample Entered on C.O.C.? yes

SAMPLE PRESERVATION METHOD: Iced Other (describe): _____

Signature: 

Date/Time: 11/7/08 1445 Sample time

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: 11W-16
 DATE/TIME: 11/6/08 0840 Begin
 ANALYSIS: BTEX/G, DX, MNA

WELL NUMBER: 11W-16
 WEATHER: rainy + cool

WELL PURGING DATA

Initial depth to water: 14.16
 Screened Interval: _____
 Method of purging: peristaltic pump
 Method of decontaminating: LIQUOR + D.I. water

Depth of well: 21.7'
 Volume of water in well: 10.5m 1.79 (2")
 Purge Rate: _____

Down Hole DO Meter 11/7/08
DO = 5.0 mg/L

WATER QUALITY OBSERVATIONS DURING PURGING

0853
0857
0859
0901
0903
0905
0907

Date/Time	Volume Purged (gals)	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
11/6/08	<1	14.27	16.0	7.19	51.7	4.61	61	42.7
	<1	14.18	15.9	6.52	42.9	4.10	62	33.6
	<1	14.17	15.9	6.27	37.5	4.03	67	31.3
	<1	14.18	16.0	6.11	34.2	3.98	68	43.1
	<1	14.17	15.9	6.05	32.9	3.84	70	44.3
	<1	14.17	16.0	6.03	31.0	3.75	70	43.7
	<1	14.17	16.0	6.01	30.8	3.53	71	42.4

Comments: _____

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
1000	HCL	40ml	6	6
Amber	HCL	1L	2	2
poly		500ml	3	3
glass	W/HT	500ml	1	1
poly	H ₂ O ₂	500ml	1	1
poly	HNO ₃	500ml	1	1

SAMPLE METHOD: peristaltic Pump Bailer Other _____

FILTERED? Yes sample field filtered

Photograph Taken? Yes 11/3/08
 Sample Entered on C.O.C.? Yes

SAMPLE PRESERVATION METHOD: x Iced _____ Other (describe): Sample Vials

Signature: [Signature]

Date/Time: 11/6/08 / 0915

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: MW-17

WELL NUMBER: MW-17

DATE/TIME: 11/6/08 10:30

WEATHER: Raining

ANALYSIS: BTEX/G, Dx, MNA

WELL PURGING DATA

Initial depth to water: 11.78

Depth of well: 24.85

Screened Interval:

Volume of water in well: 2.22 (2")

Method of purging: Peristaltic Pump

Purge Rate:

Method of decontaminating: Liquinox + DI Water

Down Hole DO Meter 11/7/08
DO = 1.78 mg/L

WATER QUALITY OBSERVATIONS DURING PURGING

11/6/08
↓

Date/Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1037	1.1	11.81	16.6	6.27	337	587	-1	1.7
1106	1.7	11.81	16.7	6.36	336	—	137	7.3
1108	1.5	11.81	16.6	6.36	341	—	135	8.2
1110	1.7	11.82	16.5	6.36	343	—	133	6.6
1112	1.8	11.82	16.9	6.36	349	—	129	8.0
1114	2.0	11.82	16.9	6.37	354	—	127	8.2

Comments: Collect DUP-2-110608 (1530) and MW-17-FB 1535
DO malfunctioning on 10/12

SAMPLE CONTAINER DATA:

SAMPLE METHOD: Peristaltic Pump Bailer Other

FILTERED? Yes No
Ferric Iron Field Filtered

Type	Pres.	Volume	No. Required	No. Filled
Poly	—	750ml	3	3
Poly	HNO ₃	50ml	1	1
Poly	H ₂ SO ₄	50ml	1	1
VOP	HCl	40ml	6	6
Ambly	HCl	1L	2	2

x2 for DUP
+6 VOM, for FB

Photograph Taken? Yes on 11/3/08
Sample Entered on C.O.C.? ✓

Glass N₂O₄ 500ml 1 1
SAMPLE PRESERVATION METHOD: x Iced Other (describe):

Signature: [Signature]

Date/Time: 1120 11/6/08
Sample time

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: _____ WELL NUMBER: MW-21
 DATE/TIME: 11/11/08 12:1 WEATHER: Rainy
 ANALYSIS: 11/6/08 0830 BTEX/10, D_x, MNA

WELL PURGING DATA

Initial depth to water: 26.28 Depth of well: 35
 Screened Interval: - Volume of water in well: 1.48 (2")
 Method of purging: Peristaltic Pump Purge Rate: -
 Method of decontaminating: Liquinox + DI Water

Down Hole DO Meter 11/7/08
 DO = 1.37 mg/L

WATER QUALITY OBSERVATIONS DURING PURGING

11/6/08
 ↓

Date/Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
918	1	26.28	12.1	6.57	17.3	0	26	22
920	1.2	26.34	12.8	6.50	13.2	0	9	26.9
922	1.4	26.37	13.8	6.53	63.1	5.31	-1	51
924	1.6	26.41	14.1	6.55	60.1	4.73	-7	52
926	1.8	26.42	14.2	6.56	65	5.83	-1	28
928	2.0	26.43	14.2	6.56	64.1	5.62	-12	27
925	2.2	26.44	14.2	6.57	63	5.45	-16	24

Comments: _____

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
Poly	N ₂	500ml	3	3
VOA	HCl	500ml	10	10
Ammonia	HCl	1L	2	2
Glass	N ₂	500ml	1	1
Poly	HNO ₃	500ml	1	1
Poly	H ₂ O ₂	500ml	1	1

SAMPLE METHOD: Peristaltic Pump Bailer Other _____

FILTERED? Yes ~~No~~
Filtered for Ferric Iron

Photograph Taken? Yes on 11/3/08
 Sample Entered on C.O.C.? Yes

SAMPLE PRESERVATION METHOD: x Iced _____ Other (describe): _____

Signature: [Signature]

Date/Time: 11/6/08 0950 Sample time

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: MW-25
 DATE/TIME: 11/4/08 0800
 ANALYSIS: GD BTEX

WELL NUMBER: MW-74 25
 WEATHER: Rainy Cold

WELL PURGING DATA

Initial depth to water: 14.20
 Screened Interval: _____
 Method of purging: Peristaltic Pump
 Method of decontaminating: Liquinox + DI Water

Depth of well: 20'
 Volume of water in well: 3.83 (4")
 Purge Rate: _____

WATER QUALITY OBSERVATIONS DURING PURGING

Date/Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
11/4/08 808	1.2L	14.29	14.3	6.74	852	—	3127	0
820	1.2L	14.25	12.0	6.70	869	—	-51	0
823	1.3L	14.31	14.3	6.74	837	—	81	3.2
826	1.4L	14.37	14.3	6.74	839	—	87	0
829	1.5L	14.37	14.5	6.75	848	—	96	0
832	1.6L	14.38	14.3	6.76	850	—	98	0
8								

Comments: DO malfunctioning on Horbe

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
Ambi	HCl	1L	2	2
VOA	HCl	40ml	6	6

SAMPLE METHOD: Peristaltic Pump Bailer Other _____

FILTERED? Yes No

Photograph Taken? Yes on 11/3/08
 Sample Entered on C.O.C.? Yes

SAMPLE PRESERVATION METHOD: Iced Other (describe): sample fence

Signature: [Signature]

Date/Time: 0830 11/4/08

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: MW-26
 DATE/TIME: 11/6/08 / 1015
 ANALYSIS: BTEX/G, Dx, MNA

WELL NUMBER: MW-26
 WEATHER: Rainy + Cool

WELL PURGING DATA

Initial depth to water: 12.83
 Screened Interval: _____
 Method of purging: peristaltic pump
 Method of decontaminating: Liquimat + DI water

Depth of well: 22.75
 Volume of water in well: 9.94 6.53 (4")
 Purge Rate: _____

Down Hole DO Meter 11/7/08
 DO = 2.12 mg/L

WATER QUALITY OBSERVATIONS DURING PURGING

1028
1035
1092
1107
1106
1108
1110
1112

Date/Time	Volume Purged (gal)	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
11/6/08	<1	12.88	15.9	6.67	75.8	0.00	-43	124.0
	<1	12.89	16.0	6.67	76.1	0.00	-37	31.0
	<1	12.87	16.0	6.46	80.1	0.00	-45	0.1
	<1	12.91	16.1	6.46	78.0	0.00	-62	116.0
	<1	12.92	16.1	6.46	72.2	0.00	-72	17.8
	<1	12.92	16.1	6.49	68.9	0.00	-80	249.2
	<1	12.92	16.2	6.49	68.7	0.00	-86	18.6
	<1	12.92	16.2	6.49	68.0	0.00	-91	18.0

Comments: DO malfunctioning on hole

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
Woods	CHL	40ml	6	6
Amber	HCL	1L	2	2
glass	NaOH	500ml	1	1
glass	-	500ml	3	3
poly	HNO3	500ml	1	1
poly	HNO3	500ml	1	1

SAMPLE METHOD: Peristaltic Pump Bailer Other _____

FILTERED? Yes No

Photograph Taken? yes 11/3/08

Sample Entered on C.O.C.? yes

SAMPLE PRESERVATION METHOD: x Iced Other (describe): _____

Signature: [Signature]

Date/Time: 11/6/08 1115

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: MW-30
 DATE/TIME: 11/6/08 1200

WELL NUMBER: MW-30
 WEATHER: Rainy

ANALYSIS: BTEX/g, Dx, MNA

WELL PURGING DATA

Initial depth to water: 24.8
 Screened Interval: _____
 Method of purging: LOW Flow-Peristaltic Pump
 Method of decontaminating: Liquinox + DI water

Depth of well: 34.68
 Volume of water in well: 30 gal 1.67 (2")
 Purge Rate: 0.033/min

Down Hole DO Meter 11/7/08
 DO = 2.04 mg/L

WATER QUALITY OBSERVATIONS DURING PURGING

Date/Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
11/6/08		24.98	15.5	6.23	716	-	244	
12:08	4.0L	24.89	15.6	6.23	0.666	-	220	59.6
12:10	4.1L	24.89	15.5	6.25	0.654	-	222	51.6
12:12	4.2	24.90	15.5	6.25	648	-	225	51.5
12:14	4.3	24.90	15.5	6.24	641	-	227	52
12:16	HH	24.90	15.5	6.23	632	-	230	59

Comments: Collected DUP-1-110605 @ 1300

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
Poly	-	50mL	3	3
Poly	HNO3	50mL	1	1
Poly	H2SO4	50mL	1	1
VOA	HCl	40mL	6	6
Amber	HCl	1L	2	2
GLASS	NaOH	50mL	1	1

x2 for DUP
 +6 VOAs for FB

SAMPLE METHOD: Pump Bailer Other FB

FILTERED? Yes No
Ferrous Iron Field Filtered

Photograph Taken? Yes 11/3/08
 Sample Entered on C.O.C.? ✓

SAMPLE PRESERVATION METHOD: x Iced Other (describe): _____

Signature: [Signature]

Date/Time: 11/6/08 1300 Sample time

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: MW-31
 DATE/TIME: 11/4/08 1140
 ANALYSIS: BTEX/G, Dx

WELL NUMBER: MW-31
 WEATHER: cool, cloudy

WELL PURGING DATA

Initial depth to water: 20.20
 Screened Interval: _____
 Method of purging: Low-Flow-Peristaltic Pump
 Method of decontaminating: Liquinox + DI Water

Depth of well: 24.1
 Volume of water in well: 1.5l (2")
 Purge Rate: _____

WATER QUALITY OBSERVATIONS DURING PURGING

Date/Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1144	1L	20.21	14.7	6.55	0.620	—	114	161.0
1147	1.2L	20.21	14.8	6.54	0.615	—	110	81.0
1150	1.4L	20.21	14.8	6.51	0.611	—	106	53.4
1153	1.6L	20.22	14.9	6.49	0.603	—	106	54.2
1156	1.9L	20.23	14.9	6.48	0.599	—	108	53.6
1159	2.0L	20.22	14.9	6.47	0.594	—	112	63.6
1202	2.1L	20.22	14.8	6.46	0.590	—	116	70.7

11/4/08
↓

Comments: DO malfunctioning on Hantz

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
Ambx	HCl	1L	2	2
V02	HCl	40ml	6	6

SAMPLE METHOD: Peristaltic Pump Bailer Other _____
 FILTERED? Yes No

Photograph Taken? Yes on 11/3/08
 Sample Entered on C.O.C.? Yes

SAMPLE PRESERVATION METHOD: Iced Other (describe): sample to me

Signature: [Signature]

Date/Time: 11/4/08 1215

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: MW-32
 DATE/TIME: 11/4/08 0950
 ANALYSIS: BTEX/G, Dx

WELL NUMBER: MW-32
 WEATHER: ^{Purely} Cloudy, cool

WELL PURGING DATA

Initial depth to water: 13.60
 Screened Interval: —
 Method of purging: Low-Peristaltic Pump
 Method of decontaminating: Liquinox + DI Water

Depth of well: 20'
 Volume of water in well: 1.09 (2°)
 Purge Rate: —

WATER QUALITY OBSERVATIONS DURING PURGING

11/4/08
 ↓

Date/Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
0955	1L	13.77	14.0	6.69	0.319	—	32	4.9
0957	1.2L	13.78	14.1	6.67	0.317	—	23	4.6
1001	1.4L	13.78	13.9	6.67	0.318	—	12	0.3
1004	1.6L	13.73	13.5	6.67	0.324	—	4	0.3
1007	1.8L	13.79	14.1	6.68	0.317	—	4	0.1
1010	2.0L	13.81	14.2	6.68	0.323	—	4	0.8

Comments: DO malfunctioning on Horbe

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
Amber	HCl	1L	2	2
Vial	HCl	40mL	6	6

SAMPLE METHOD: ^{Peristaltic} Pump Bailer Other

FILTERED? Yes No

Photograph Taken? Yes on 11/3/08
 Sample Entered on C.O.C.? Yes

SAMPLE PRESERVATION METHOD: Iced Other (describe):

Signature: S/L [Signature]

Date/Time: 11/4/08 1015 ^{sample time}

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: MW-33

WELL NUMBER: MW-33

DATE/TIME: 11/4/08 1030

WEATHER: cool, cloudy

ANALYSIS: BTEX/G, D_n

WELL PURGING DATA

Initial depth to water: 29.81

Depth of well: 34.6

Screened Interval: —

Volume of water in well: 0.81 (2")

Method of purging: Peristaltic Pump

Purge Rate: —

Method of decontaminating: Liquinox + DI Water

WATER QUALITY OBSERVATIONS DURING PURGING

↓

11/4/08

Date/Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1047	1L	29.84	13.1	6.44	0.900	—	14	21.3
1050	1.2L	29.88	13.2	6.45	0.902	—	-20	11.3
1053	1.4L	29.92	13.3	6.44	0.904	—	-35	2.2
1056	1.6L	29.94	13.4	6.45	0.905	—	-42	0.9
1059	1.7	29.94	13.4	6.45	0.908	—	-55	0.0
1102	1.8	29.95	13.5	6.45	0.909	—	-58	0.0
112								

Comments: DO malfunctioning on Hmb2

SAMPLE CONTAINER DATA:

SAMPLE METHOD: Peristaltic Pump Bailer Other —

FILTERED? Yes No

Type	Pres.	Volume	No. Required	No. Filled
ANALY	HCl	1L	2	2
VOL	HCl	40ml	6	6

Photograph Taken? Yes on 11/3/08

Sample Entered on C.O.C.? Yes

SAMPLE PRESERVATION METHOD: Iced Other (describe): Simple tone

Signature: [Signature]

Date/Time: 11/4/08 1100

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: MW-34
 DATE/TIME: 11/6/08 1330
 ANALYSIS: BTEX/G, D_x, MNA

WELL NUMBER: MW-34
 WEATHER: Rain

WELL PURGING DATA

Initial depth to water: 27.24
 Screened Interval: -
 Method of purging: Penstatic Pump
 Method of decontaminating: Liquinox + DI Water

Depth of well: 35
 Volume of water in well: 1.31 (2")
 Purge Rate: -

Down Hole DO Meter 11/7/08
DO = 5.8 mg/L

WATER QUALITY OBSERVATIONS DURING PURGING

Date/Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1414	5.0L	27.24	13.6	6.39	529	-	329	63
1416	5.2L	27.24	13.7	6.38	531	-	325	59
1418	5.4L	27.24	13.6	6.38	531	-	322	58

Comments: Horiba stopped functioning (too wet) at 1420; DO malfunctioning

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
Poly	-	500mL	3	3
Poly	HNO ₃	50mL	1	1
Poly	AgNO ₃	50mL	1	1
VSA	HCl	40mL	0	0
Ambic	HCl	1L	2	2
Glass	None	500mL	1	1

SAMPLE METHOD: Penstatic Pump Bailer Other _____
 FILTERED? Yes No
Removes iron sample field filters
 Photograph Taken? Yes 11/3/08
 Sample Entered on C.O.C.?

SAMPLE PRESERVATION METHOD: Iced Other (describe): _____

Signature: [Signature] Date/Time: 11/6/08 1440 Sample tir

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM 21-1577

SAMPLE ID NO.: mw-35

WELL NUMBER: mw-35

DATE/TIME: 11/5/08 / 10:55

WEATHER: partly cloudy + fog

ANALYSIS: BTEX/G, D_x

WELL PURGING DATA

Initial depth to water: 31.56

Depth of well: 41'

Screened Interval: —

Volume of water in well: 9.44 m 1.60 (2")

Method of purging: bailer - 3 well volumes

Purge Rate: — bailer

Method of decontaminating: Liquor = 5.5 gal + DI water

WATER QUALITY OBSERVATIONS DURING PURGING

Date/Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
<u>11/5/08</u>								

No parameters obtained due to using bailer as requested by Peter Catterall

Comments: _____

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
<u>VOA</u>	<u>HCl</u>	<u>40ml</u>	<u>6</u>	<u>6</u>
<u>Amber</u>	<u>HCl</u>	<u>1L</u>	<u>2</u>	<u>2</u>

SAMPLE METHOD: Pump Bailer Other _____

FILTERED? Yes No

Photograph Taken? yes on 11/3/08
 Sample Entered on C.O.C.? yes

SAMPLE PRESERVATION METHOD: Iced Other (describe): _____

Signature: Ima King

Date/Time: 11/5/08 / 11:15 *sample from*

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: DPE-2
 DATE/TIME: 11/4/08/1059
 ANALYSIS: BTEX/G, DX

WELL NUMBER: DPE-2
 WEATHER: cool & cloudy

WELL PURGING DATA

Initial depth to water: 14.12
 Screened Interval:
 Method of purging: Peristaltic Pump
 Method of decontaminating: Liquinox + DI water

Depth of well: 25
 Volume of water in well: (4") 7.18
 Purge Rate:

WATER QUALITY OBSERVATIONS DURING PURGING

1100
1102
1104
1106
1108
1110

Date/Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
11/4/08	<1 gal	14.27	16.5	6.06	63.9	2.09	105	30.4
		14.27	17.0	6.17	63.4	0.0	95	25.9
		14.27	17.0	6.12	63.1	0.0	91	28.2
		14.27	17.0	6.13	62.7	0.0	88	25.5
		14.27	17.0	6.14	62.6	0.0	83	25.7
		14.27	17.0	6.12	62.9	0.0	80	28.0-27.6
	1 gal							

Comments: DO malfunctioning on Horiz

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
Vials	NCL	40 mL	6	6
Amals	NCL	1.0	2	2

SAMPLE METHOD: Peristaltic Pump Bailer Other

FILTERED? Yes No

Photograph Taken? Yes on 11/3/08
 Sample Entered on C.O.C.? Yes

SAMPLE PRESERVATION METHOD: x Iced Other (describe): sample true

Signature: Jma

Date/Time: 11/4/08 1115

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: DPE-5 1555
 DATE/TIME: 11/3/08 1515

WELL NUMBER: DPE-5
 WEATHER: Cloudy, damp

ANALYSIS: G, D, BTEX

WELL PURGING DATA

Initial depth to water: 22.46
 Screened Interval: —
 Method of purging: Peristaltic Pump
 Method of decontaminating: Liquinox + DI Water

Depth of well: 28
 Volume of water in well: 3.66 (4")
 Purge Rate: —

WATER QUALITY OBSERVATIONS DURING PURGING

11/3/08
↓

Date/Time	Volume Purged (gal)	Depth to Water	Temp (°C)	pH	EC (ms/cm @ 25°C)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
1542	0	22.75	15.1	7.32	1.14	0.00	—	634 0
1544	~.5	23.00	15.1	7.26	1.11	0.00	—	450 540 7
1546	~.75	23.20	15.2	7.27	1.10	0.00	—	329 0
1548	~1	23.36	15.2	7.29	1.09	0.00	—	253 0
1550	~1.25	23.50	15.2	7.30	1.08	0.00	—	255.0
1552	~1.4	23.75	15.2	7.28	1.08	0.00	—	237 0
RL								

Comments: DO meter malfunctioning on Hantz

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
VDA	HCl	40mL	6	6
Amber	HCl	1L	2	2

SAMPLE METHOD: Peristaltic Pump Bailer Other —

FILTERED? Yes No

Photograph Taken? Yes on 11/3/08

Sample Entered on C.O.C.? Yes

SAMPLE PRESERVATION METHOD: Iced Other (describe): —

Signature: [Signature]

Date/Time: 11/3/2008 1555 Sample time

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: DPE-6
 DATE/TIME: 11/3/08 / 1600
 ANALYSIS: BETX, 6, DX

WELL NUMBER: DPE-6
 WEATHER: Rainy + COOL

WELL PURGING DATA

Initial depth to water: 22.45 / 21.30
 Screened Interval:
 Method of purging: peristaltic pump
 Method of decontaminating: new tubing, Liquinox, DI Water
 Depth of well: 33.5
 Volume of water in well: 8.05 (4")
 Purge Rate:

WATER QUALITY OBSERVATIONS DURING PURGING

Date/Time	Volume Purged	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
0828 - 11/3/08	<0.5 gal	21.00	15.4	6.32	.147	1.49	129	436.0
0830		21.38	15.8	6.40	.147	0.00	120	969.0
0834		21.61	15.5	6.44	.142	0.00	107	673.0
0837		21.61	15.3	6.46	.142	0.00	96	654
0836	↓	21.61	15.6	6.49	.142	0.00	91	697
	1/2 gal							

DO malfunctioning so
 Comments: Recall H₂O₂ = PH = 3.93, Cond = .459, Turb = 1.9, DO = 11.96
Temp = 8.1, DRP = 378

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
Vials	HCL	40ml	6	6
Bottles	HCL	1L	2	2

SAMPLE METHOD: Peristaltic Pump Bailer Other _____

FILTERED? Yes No

Photograph Taken? yes on 11/3/08
 Sample Entered on C.O.C.? Y/S

SAMPLE PRESERVATION METHOD: x Iced _____ Other (describe): _____

Signature: Jane King

Date/Time: 11/4/08 / sampled 0840

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: DAPE-8
 DATE/TIME: 11/6/08 1215
 ANALYSIS: BTEX/G, Dx, MNA

WELL NUMBER: DAPE 8/NW-22
 WEATHER: Rainy + Wind

WELL PURGING DATA

Initial depth to water: 15.51
 Screened Interval:
 Method of purging: Peristaltic Pump
 Method of decontaminating: Liquinox + DI Water

Depth of well: 23.5
 Volume of water in well: 5.27 (4")
 Purge Rate:

Down Hole DO Meter 11/7/08
 DO = 0.97 mg/L

WATER QUALITY OBSERVATIONS DURING PURGING

1242
1244
1246
1248
1250
1252
1254

Date/Time	Volume Purged (gal)	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
11/6/08	<1	15.74	14.8	6.38	0.148	0	41	47.3
	<1	15.82	14.9	6.43	0.147	0	42	50.1
	<1	15.88	14.9	6.45	0.146	0	36	62.9
	<1	15.93	14.9	6.46	0.145	0	34	61.7
	<1	15.96	14.9	6.47	0.145	0	32	58.6
	<1	15.98	14.9	6.47	0.144	0	30	57.9
	<1	16.02	14.9	6.47	0.143	0	28	59.3
	1 gal							

Comments: DO malfunctioning on hole

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
Poly	—	500ml	3	3
Poly	H ₂ O ₂	500ml	1	1
Poly	HNO ₃	500ml	1	1
Vac	Her	40ml	6	6
Amber	Her	1L	2	2

SAMPLE METHOD: Peristaltic Pump Bailer Other

FILTERED? Yes No
Ferrous Iron field filtered

Photograph Taken? Yes 11/3/08
 Sample Entered on C.O.C.? Yes

SAMPLE PRESERVATION METHOD: x Iced Other (describe): sample times

Signature: [Signature]

Date/Time: 11/6/08 1255

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

GROUNDWATER SAMPLE COLLECTION DATA FORM

SAMPLE ID NO.: RW-2

WELL NUMBER: RW-2

DATE/TIME: 11/4/08 0950

WEATHER: Sunny + Cool

ANALYSIS: BTEX 1G, Dx

WELL PURGING DATA

Initial depth to water: ^{ML} 146.73 - 15.73

Depth of well: 21.4

Screened Interval: —

Volume of water in well: 14.74 (8")

Method of purging: Peristaltic Pump

Purge Rate: —

Method of decontaminating: Liquinox + DI water

WATER QUALITY OBSERVATIONS DURING PURGING

11/4/08
↓

Date/Time	Volume Purged (gals)	Depth to Water	Temp (°C)	pH	EC (mS)	D.O. (mg/L)	Redox (mVolts)	Turbidity (NTU)
0952	0.5	156.80	15.0	6.13	55.5	1.56	51	129.0
0954	0.5	156.89	14.8	6.22	55.0	0.00	22	192.0
0956	0.5	156.89	14.9	6.22	53.8	0.00	17	197.0
0958	0.5	156.90	14.8	6.24	55.7	0.00	4	199.0
1000	0.5	156.90	14.7	6.23	53.6	0.00	4	206.0
1002	0.5	15.91	14.7	6.24	55.3	0.00	-6	197.0

Comments: DO malfunctioning on Hanze

SAMPLE CONTAINER DATA:

Type	Pres.	Volume	No. Required	No. Filled
VOA	HCl	40ml	6	6
Amber	HCl	1L	2	2

SAMPLE METHOD: Penstaltic Pump Bailer Other _____

FILTERED? Yes No

Photograph Taken? Yes on 11/3/08
Sample Entered on C.O.C.? Yes

SAMPLE PRESERVATION METHOD: Iced Other (describe): _____

Signature: Tina King

Date/Time: 11/04/2008 1005

*SAMPLE FORM: Forms used in the field may vary. All pertinent information will be the same. Additional information or format may change to fit usage.

Attachment D:
Laboratory Reports and Chain of Custody Forms April/May 2008

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 17605-2425SAMPLE GROUP

The sample group for this submittal is 1088847. Samples arrived at the laboratory on Wednesday, April 30, 2008. The PO# for this group is 0015024861 and the release number is HUNTER.

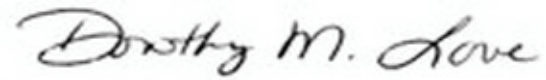
Client DescriptionTB-1-1909J Water Sample
MW-33 Grab Water Sample
MW-14 Grab Water Sample
FB-1-04282008 Grab Water Sample
MW-25 Grab Water SampleLancaster Labs Number5346781
5346782
5346783
5346784
5346785ELECTRONIC SAIC
COPY TO
ELECTRONIC SAIC
COPY TO

Attn: Tina King

Attn: Peter Catterall

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

Respectfully Submitted,



Dorothy M. Love
Group Leader



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW5346781

Group No. 1088847

TB-1-1909J Water Sample

Facility# 211577

631 Queen Anne Ave. N - Seattle, WA

Collected: 04/28/2008 13:30

Account Number: 11255

Submitted: 04/30/2008 09:15

Chevron

Reported: 05/09/2008 at 14:57

6001 Bollinger Canyon Rd L4310

Discard: 06/09/2008

San Ramon CA 94583

QAATB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/05/2008 00:56	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/05/2008 18:40	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/05/2008 00:56	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/05/2008 18:40	Ginelle L Feister	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. **WW5346782**

Group No. **1088847**

MW-33 Grab Water Sample

Facility# **211577**

631 Queen Anne Ave. N - Seattle, WA

Collected: 04/28/2008 14:55 by MG

Account Number: 11255

Submitted: 04/30/2008 09:15

Chevron

Reported: 05/09/2008 at 14:57

6001 Bollinger Canyon Rd L4310

Discard: 06/09/2008

San Ramon CA 94583

QAA33

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	370.	81.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	100.	ug/l	1
08273	TPH by NWTTPH-Gx waters					
01645	TPH by NWTTPH-Gx waters	n.a.	1,300.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	2,400.	13.	ug/l	25
05407	Toluene	108-88-3	86.	3.	ug/l	5
05415	Ethylbenzene	100-41-4	75.	3.	ug/l	5
06310	Xylene (Total)	1330-20-7	76.	3.	ug/l	5

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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTTPH-Dx(water) w/SiGel	ECY 97-602 NWTTPH-Dx modified	1	05/08/2008 13:06	Heather E Williams	1
08273	TPH by NWTTPH-Gx waters	ECY 97-602 NWTTPH-Gx modified	1	05/05/2008 13:12	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/05/2008 19:04	Ginelle L Feister	5
06053	BTEX by 8260B	SW-846 8260B	1	05/05/2008 19:28	Ginelle L Feister	25
01146	GC VOA Water Prep	SW-846 5030B	1	05/05/2008 13:12	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/05/2008 19:04	Ginelle L Feister	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	05/05/2008 19:28	Ginelle L Feister	25
02135	Extraction - DRO Water Special	ECY 97-602 NWTTPH-Dx 06/97	1	05/06/2008 11:00	Jessica Agosto	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW5346783

Group No. 1088847

MW-14 Grab Water Sample

Facility# 211577

631 Queen Anne Ave. N - Seattle, WA

Collected: 04/28/2008 16:00 by MG

Account Number: 11255

Submitted: 04/30/2008 09:15

Chevron

Reported: 05/09/2008 at 14:57

6001 Bollinger Canyon Rd L4310

Discard: 06/09/2008

San Ramon CA 94583

QAA14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	1,400.	79.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	99.	ug/l	1
08273	TPH by NWTTPH-Gx waters					
01645	TPH by NWTTPH-Gx waters	n.a.	1,200.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	61.	0.5	ug/l	1
05407	Toluene	108-88-3	4.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	140.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	21.	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTTPH-Dx(water) w/SiGel	ECY 97-602 NWTTPH-Dx modified	1	05/08/2008 13:26	Heather E Williams	1
08273	TPH by NWTTPH-Gx waters	ECY 97-602 NWTTPH-Gx modified	1	05/05/2008 08:38	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/05/2008 19:52	GINELLE L FEISTER	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/05/2008 08:38	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/05/2008 19:52	GINELLE L FEISTER	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTTPH-Dx 06/97	1	05/06/2008 11:00	Jessica Agosto	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. **WW5346784**

Group No. **1088847**

FB-1-04282008 Grab Water Sample

Facility# 211577

631 Queen Anne Ave. N - Seattle, WA

Collected: 04/28/2008 16:01 by MG

Account Number: 11255

Submitted: 04/30/2008 09:15

Chevron

Reported: 05/09/2008 at 14:58

6001 Bollinger Canyon Rd L4310

Discard: 06/09/2008

San Ramon CA 94583

QAAFB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/05/2008 02:02	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 10:10	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/05/2008 02:02	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/06/2008 10:10	Ginelle L Feister	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. **WW5346785**

Group No. **1088847**

MW-25 Grab Water Sample

Facility# **211577**

631 Queen Anne Ave. N - Seattle, WA

Collected: 04/28/2008 16:55 by MG

Account Number: 11255

Submitted: 04/30/2008 09:15

Chevron

Reported: 05/09/2008 at 14:58

6001 Bollinger Canyon Rd L4310

Discard: 06/09/2008

San Ramon CA 94583

QAA25

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	120.	77.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	96.	ug/l	1
08273	TPH by NWTTPH-Gx waters					
01645	TPH by NWTTPH-Gx waters	n.a.	250.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	1.	0.5	ug/l	1
05407	Toluene	108-88-3	0.7	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	11.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	0.9	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTTPH-Dx(water) w/SiGel	ECY 97-602 NWTTPH-Dx modified	1	05/08/2008 13:45	Heather E Williams	1
08273	TPH by NWTTPH-Gx waters	ECY 97-602 NWTTPH-Gx modified	1	05/05/2008 09:11	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 10:33	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/05/2008 09:11	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/06/2008 10:33	Ginelle L Feister	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTTPH-Dx 06/97	1	05/06/2008 11:00	Jessica Agosto	1

Quality Control Summary

 Client Name: Chevron
 Reported: 05/09/08 at 02:58 PM

Group Number: 1088847

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>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: 081250016A	Sample number(s): 5346782-5346783, 5346785							
Diesel Range Organics	N.D.	80.	ug/l	69	66	61-106	4	20
Heavy Range Organics	N.D.	100.	ug/l					
Batch number: 08125A51A	Sample number(s): 5346781-5346785							
TPH by NWTPH-Gx waters	N.D.	50.	ug/l	87	90	75-135	4	30
Batch number: D081271AA	Sample number(s): 5346784-5346785							
Benzene	N.D.	0.5	ug/l	96		78-119		
Toluene	N.D.	0.5	ug/l	94		85-115		
Ethylbenzene	N.D.	0.5	ug/l	92		82-119		
Xylene (Total)	N.D.	0.5	ug/l	95		83-113		
Batch number: Z081262AA	Sample number(s): 5346781-5346783							
Benzene	N.D.	0.5	ug/l	87		78-119		
Toluene	N.D.	0.5	ug/l	90		85-115		
Ethylbenzene	N.D.	0.5	ug/l	92		82-119		
Xylene (Total)	N.D.	0.5	ug/l	92		83-113		

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: 08125A51A	Sample number(s): 5346781-5346785 UNSPK: P343592								
TPH by NWTPH-Gx waters	94		63-154						
Batch number: D081271AA	Sample number(s): 5346784-5346785 UNSPK: 5346785								
Benzene	102	106	83-128	4	30				
Toluene	101	104	83-127	3	30				
Ethylbenzene	107	111	82-129	3	30				
Xylene (Total)	101	104	82-130	2	30				
Batch number: Z081262AA	Sample number(s): 5346781-5346783 UNSPK: P346671								
Benzene	98	144*	83-128	13	30				
Toluene	118	215*	83-127	20	30				
Ethylbenzene	98	101	82-129	3	30				
Xylene (Total)	103	111	82-130	5	30				

*- Outside of specification

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

Quality Control Summary

 Client Name: Chevron
 Reported: 05/09/08 at 02:58 PM

Group Number: 1088847

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(water) w/SiGel
 Batch number: 081250016A
 Orthoterphenyl

5346782	106
5346783	110
5346785	97
Blank	95
LCS	112
LCSD	109

Limits: 50-150

 Analysis Name: TPH by NWTPH-Gx waters
 Batch number: 08125A51A
 Trifluorotoluene-F

5346781	108
5346782	118
5346783	128
5346784	106
5346785	102
Blank	111
LCS	100
LCSD	101
MS	101

Limits: 63-135

 Analysis Name: BTEX by 8260B
 Batch number: D081271AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5346784	103	104	94	96
5346785	96	100	93	99
Blank	102	106	93	94
LCS	97	102	91	103
MS	99	102	95	105
MSD	98	103	94	104

Limits: 80-116 77-113 80-113 78-113

 Analysis Name: BTEX by 8260B
 Batch number: Z081262AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5346781	86	83	89	84
5346782	84	82	89	85
5346783	86	81	89	88
Blank	87	83	89	84
LCS	86	83	88	88
MS	86	82	88	87
MSD	85	83	89	86

Limits: 80-116 77-113 80-113 78-113

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 05/09/08 at 02:58 PM

Group Number: 1088847

Surrogate Quality Control

*- Outside of specification

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

Chevron Northwest Region Analysis Request/Chain of Custody



222254

For Lancaster Laboratories use only
 Acct. #: 11255 Sample #: 5346781-85 SCR#: _____

NW RTB# 0211577-0-OML Page 1 of 1

Facility #: 211577
 Site Address: 631 Queen Anne Ave N, SEATTLE, WA
 Chevron PM: Brett Hunter Lead Consultant: SAIC
 Consultant/Office: SAIC Bothell, WA
 Consultant Prj. Mgr.: Peter Catterall
 Consultant Phone #: 425-482-3321 Fax #: 425-485-5566
 Sampler: Megan Gay, Tina King, Julie Wartes
 Service Order #: _____ Non SAR: _____

Analyses Requested

Matrix		Preservation Codes	
Soil	Water	Oil	Air
<input type="checkbox"/> Potable <input type="checkbox"/> NPDES	<input type="checkbox"/> Air	Total Number of Containers	
		BTEX-MTBE 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphth <input type="checkbox"/>	
		8260 full scan	
		Oxygenates	
		NW TPH G	
		NW TPH D	
		Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method _____	
		VPHEPH	
		NWTPH HClD <input type="checkbox"/> quantification	

C# 1088841

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

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

8021 MTBE Confirmation
 Confirm MTBE + Naphthalene
 Confirm highest hit by 8260
 Confirm all hits by 8260
 Run ___ oxy s on highest hit
 Run ___ oxy s on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix			Total Number of Containers	Analyses Requested		Comments / Remarks
					Soil	Water	Oil		BTEX-MTBE 8021	8260	
✓ TB-1-1909J	04/28/08	1330	X		X		2	X	X	MBL 04/28/08	
✓ MW-33	4/28/08	1455	X		X		8	X	X		
✓ MW-14	4/28/08	1600	X		X		8	X	X		
✓ FB-1-04282008	4/28/08	1601	X		X		6	X	X		
✓ MW-25	4/28/08	1655	X		X		8	X	X		
MBL 04/28/08											

Turnaround Time Requested (TAT) (please circle) (STD. TAT) 72 hour 48 hour 24 hour 4 day 5 day	Relinquished by: <u>[Signature]</u>	Date: <u>4/29/08</u>	Time: <u>1530</u>	Received by: _____	Date: _____	Time: _____
	Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Data Package Options (please circle if required) QC Summary Type I - Full Type VI (Raw Data) Disk / EDD WIP (RWQCB) Standard Format Disk EDF Other.	Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
	Relinquished by Commercial Carrier: _____	UPS (FedEx) Other _____		Received by: <u>[Signature]</u>	Date: <u>4/30/08</u>	Time: <u>0815</u>
Temperature Upon Receipt: <u>1.5</u> C°				Custody Seals intact? Yes No		

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 17605-2425SAMPLE GROUP

The sample group for this submittal is 1089057. Samples arrived at the laboratory on Thursday, May 01, 2008. The PO# for this group is 0015024861 and the release number is HUNTER.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
TB-2-1909J Water Sample	5347824
DPE-6 Grab Water Sample	5347825
DPE-7 Grab Water Sample	5347826
DUP-1-DXF-042908 Grab Water Sample	5347827
DUP-2-DXF-042908 Grab Water Sample	5347828
DPE-5 Grab Water Sample	5347829
DUP-3-DXF-042908 Grab Water Sample	5347830
DPE-2 Grab Water Sample	5347831
MW-18 Grab Water Sample	5347832
MW-7 Grab Water Sample	5347833
DPE-1 Grab Water Sample	5347834
DUP-4-0429-08 Grab Water Sample	5347835
MW-19 Grab Water Sample	5347836
RW-2 Grab Water Sample	5347837
MW-32 Grab Water Sample	5347838
FB-3-042908 Grab Water Sample	5347839
DPE-8 Grab Water Sample	5347840
FB-2-042908 Grab Water Sample	5347841

ELECTRONIC SAIC
COPY TO
ELECTRONIC SAIC

Attn: Tina King

Attn: Peter Catterall

COPY TO

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

Respectfully Submitted,



Christine Dulaney
Senior Specialist



Analysis Report

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Lancaster Laboratories Sample No. **WW5347824**

Group No. **1089057**

TB-2-1909J Water Sample

Facility# **211577**

631 Queen Anne Ave N - Seattle, WA

Collected: 04/29/2008 07:57

Account Number: 11255

Submitted: 05/01/2008 09:50

Chevron

Reported: 05/12/2008 at 22:09

6001 Bollinger Canyon Rd L4310

Discard: 06/12/2008

San Ramon CA 94583

QATB2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/05/2008 06:59	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 01:22	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/05/2008 06:59	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/06/2008 01:22	Michael A Ziegler	1

Lancaster Laboratories Sample No. WW5347825
Group No. 1089057
DPE-6 Grab Water Sample
Facility# 211577
631 Queen Anne Ave N - Seattle, WA

Collected: 04/29/2008 08:45 by MG

Account Number: 11255

Submitted: 05/01/2008 09:50

Chevron

Reported: 05/12/2008 at 22:09

6001 Bollinger Canyon Rd L4310

Discard: 06/12/2008

San Ramon CA 94583

QDPE6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	8,500.	380.	ug/l	5
02096	Heavy Range Organics	n.a.	N.D.	480.	ug/l	5
08273	TPH by NWTTPH-Gx waters					
01645	TPH by NWTTPH-Gx waters	n.a.	460.	250.	ug/l	5
06053	BTEX by 8260B					
05401	Benzene	71-43-2	1.	0.5	ug/l	1
05407	Toluene	108-88-3	6.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	2.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	32.	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTTPH-Dx(water) w/SiGel	ECY 97-602 NWTTPH-Dx modified	1	05/08/2008 06:11	Heather E Williams	5
08273	TPH by NWTTPH-Gx waters	ECY 97-602 NWTTPH-Gx modified	1	05/05/2008 09:44	Patrick N Evans	5
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 01:45	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/05/2008 09:44	Patrick N Evans	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/06/2008 01:45	Michael A Ziegler	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTTPH-Dx 06/97	1	05/07/2008 08:20	Denise L Trimby	1



Analysis Report

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Lancaster Laboratories Sample No. WW5347826

Group No. 1089057

DPE-7 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 04/29/2008 09:12 by MG

Account Number: 11255

Submitted: 05/01/2008 09:50

Chevron

Reported: 05/12/2008 at 22:09

6001 Bollinger Canyon Rd L4310

Discard: 06/12/2008

San Ramon CA 94583

QDPE7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	6,100.	780.	ug/l	10
02096	Heavy Range Organics	n.a.	N.D.	980.	ug/l	10
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters Due to excessive foaming of the sample, normal reporting limits were not attained.	n.a.	N.D.	250.	ug/l	5
06053	BTEX by 8260B					
05401	Benzene	71-43-2	7.	0.5	ug/l	1
05407	Toluene	108-88-3	2.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	2.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	6.	0.5	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
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/08/2008 18:19	Heather E Williams	10
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/05/2008 10:18	Patrick N Evans	5
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 02:08	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/05/2008 10:18	Patrick N Evans	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/06/2008 02:08	Michael A Ziegler	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/07/2008 08:20	Denise L Trimby	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW5347827

Group No. 1089057

DUP-1-DXF-042908 Grab Water Sample
Facility# 211577
631 Queen Anne Ave N - Seattle, WA
Collected: 04/29/2008 by MG

Account Number: 11255

Submitted: 05/01/2008 09:50
Reported: 05/12/2008 at 22:09
Discard: 06/12/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

QDUP1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	6,500.	380.	ug/l	5
02096	Heavy Range Organics	n.a.	N.D.	480.	ug/l	5

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
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/08/2008 06:50	Heather E Williams	5
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/07/2008 08:20	Denise L Trimby	1



Analysis Report

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Lancaster Laboratories Sample No. **WW5347828**

Group No. **1089057**

DUP-2-DXF-042908 Grab Water Sample
Facility# 211577
631 Queen Anne Ave N - Seattle, WA
Collected: 04/29/2008 by MG

Account Number: 11255

Submitted: 05/01/2008 09:50
Reported: 05/12/2008 at 22:09
Discard: 06/12/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

QDUP2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	6,300.	770.	ug/l	10
02096	Heavy Range Organics	n.a.	N.D.	960.	ug/l	10

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
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/08/2008 18:39	Heather E Williams	10
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/07/2008 08:20	Denise L Trimby	1



Analysis Report

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Lancaster Laboratories Sample No. WW5347829

Group No. 1089057

DPE-5 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 04/29/2008 10:00 by MG

Account Number: 11255

Submitted: 05/01/2008 09:50

Chevron

Reported: 05/12/2008 at 22:09

6001 Bollinger Canyon Rd L4310

Discard: 06/12/2008

San Ramon CA 94583

QDPE5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
02211	TPH by NWTPH-Dx(water) w/SiGel						
02095	Diesel Range Organics	n.a.	11,000.	2,000.		ug/l	5
02096	Heavy Range Organics	n.a.	N.D.	2,500.		ug/l	5
Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.							
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	250.		ug/l	5
Due to excessive foaming of the sample, normal reporting limits were not attained.							
06053	BTEX by 8260B						
05401	Benzene	71-43-2	32.	0.5		ug/l	1
05407	Toluene	108-88-3	4.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	3.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	22.	0.5		ug/l	1

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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		Analyst	Dilution Factor
				Date and Time			
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/08/2008 16:41		Heather E Williams	5
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/05/2008 10:50		Patrick N Evans	5
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 02:31		Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/05/2008 10:50		Patrick N Evans	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/06/2008 02:31		Michael A Ziegler	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/07/2008 08:20		Denise L Trimby	1

Lancaster Laboratories Sample No. WW5347829

Group No. 1089057

DPE-5 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 04/29/2008 10:00 by MG

Submitted: 05/01/2008 09:50

Reported: 05/12/2008 at 22:09

Discard: 06/12/2008

Account Number: 11255

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

QDPE5



Analysis Report

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Lancaster Laboratories Sample No. WW5347830

Group No. 1089057

DUP-3-DXF-042908 Grab Water Sample
Facility# 211577
631 Queen Anne Ave N - Seattle, WA
Collected: 04/29/2008 by MG

Account Number: 11255

Submitted: 05/01/2008 09:50
Reported: 05/12/2008 at 22:09
Discard: 06/12/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

QDUP3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	3,300.	1,500.	ug/l	20
02096	Heavy Range Organics	n.a.	N.D.	1,900.	ug/l	20
Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.						

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
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/08/2008 21:02	Heather E Williams	20
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/07/2008 08:20	Denise L Trimby	1



Analysis Report

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Lancaster Laboratories Sample No. **WW5347831**

Group No. **1089057**

DPE-2 Grab Water Sample

Facility# **211577**

631 Queen Anne Ave N - Seattle, WA

Collected: 04/29/2008 12:07 by MG

Account Number: 11255

Submitted: 05/01/2008 09:50

Chevron

Reported: 05/12/2008 at 22:09

6001 Bollinger Canyon Rd L4310

Discard: 06/12/2008

San Ramon CA 94583

QDPE2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	8,100.	1,600.	ug/l	20
02096	Heavy Range Organics	n.a.	N.D.	2,000.	ug/l	20
08273	TPH by NWTTPH-Gx waters					
01645	TPH by NWTTPH-Gx waters	n.a.	770.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	2.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	0.5	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTTPH-Dx(water) w/SiGel	ECY 97-602 NWTTPH-Dx modified	1	05/08/2008 17:40	Heather E Williams	20
08273	TPH by NWTTPH-Gx waters	ECY 97-602 NWTTPH-Gx modified	1	05/06/2008 17:43	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 02:54	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/06/2008 17:43	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/06/2008 02:54	Michael A Ziegler	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTTPH-Dx 06/97	1	05/07/2008 08:20	Denise L Trimby	1



Analysis Report

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Lancaster Laboratories Sample No. WW5347832

Group No. 1089057

MW-18 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 04/29/2008 12:10 by MG

Account Number: 11255

Submitted: 05/01/2008 09:50

Chevron

Reported: 05/12/2008 at 22:09

6001 Bollinger Canyon Rd L4310

Discard: 06/12/2008

San Ramon CA 94583

QMW18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	190.	78.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	98.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	200.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	140.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/08/2008 04:52	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/06/2008 18:17	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 03:18	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/06/2008 18:17	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/06/2008 03:18	Michael A Ziegler	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/07/2008 08:20	Denise L Trimby	1



Analysis Report

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Lancaster Laboratories Sample No. WW5347833

Group No. 1089057

MW-7 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 04/29/2008 12:55 by MG

Account Number: 11255

Submitted: 05/01/2008 09:50

Chevron

Reported: 05/12/2008 at 22:09

6001 Bollinger Canyon Rd L4310

Discard: 06/12/2008

San Ramon CA 94583

QAMW7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	76.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	95.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	390.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/08/2008 05:12	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/06/2008 18:50	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 03:40	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/06/2008 18:50	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/06/2008 03:40	Michael A Ziegler	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/07/2008 08:20	Denise L Trimby	1

Lancaster Laboratories Sample No. WW5347834
Group No. 1089057
DPE-1 Grab Water Sample
Facility# 211577
631 Queen Anne Ave N - Seattle, WA

Collected: 04/29/2008 13:03 by MG

Account Number: 11255

Submitted: 05/01/2008 09:50

Chevron

Reported: 05/12/2008 at 22:09

6001 Bollinger Canyon Rd L4310

Discard: 06/12/2008

San Ramon CA 94583

QDPE1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	610.	160.	ug/l	2
02096	Heavy Range Organics	n.a.	N.D.	200.	ug/l	2
08273	TPH by NWTTPH-Gx waters					
01645	TPH by NWTTPH-Gx waters	n.a.	260.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	430.	5.	ug/l	10
05407	Toluene	108-88-3	1.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	1.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	2.	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTTPH-Dx(water) w/SiGel	ECY 97-602 NWTTPH-Dx modified	1	05/08/2008 18:00	Heather E Williams	2
08273	TPH by NWTTPH-Gx waters	ECY 97-602 NWTTPH-Gx modified	1	05/06/2008 19:23	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 04:03	Michael A Ziegler	1
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 04:26	Michael A Ziegler	10
01146	GC VOA Water Prep	SW-846 5030B	1	05/06/2008 19:23	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/06/2008 04:03	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	05/06/2008 04:26	Michael A Ziegler	10
02135	Extraction - DRO Water Special	ECY 97-602 NWTTPH-Dx 06/97	1	05/07/2008 08:20	Denise L Trimby	1



Analysis Report

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Lancaster Laboratories Sample No. WW5347835

Group No. 1089057

DUP-4-0429-08 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 04/29/2008 by MG

Account Number: 11255

Submitted: 05/01/2008 09:50

Reported: 05/12/2008 at 22:09

Discard: 06/12/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

QDUP4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	490.	160.	ug/l	2
02096	Heavy Range Organics	n.a.	N.D.	200.	ug/l	2
Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.						
08273	TPH by NWTTPH-Gx waters					
01645	TPH by NWTTPH-Gx waters	n.a.	250.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	450.	5.	ug/l	10
05407	Toluene	108-88-3	1.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	1.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	2.	0.5	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
02211	TPH by NWTTPH-Dx(water) w/SiGel	ECY 97-602 NWTTPH-Dx modified	1	05/08/2008 15:03	Heather E Williams	2
08273	TPH by NWTTPH-Gx waters	ECY 97-602 NWTTPH-Gx modified	1	05/06/2008 19:56	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 04:49	Michael A Ziegler	1
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 05:12	Michael A Ziegler	10
01146	GC VOA Water Prep	SW-846 5030B	1	05/06/2008 19:56	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/06/2008 04:49	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	05/06/2008 05:12	Michael A Ziegler	10
02135	Extraction - DRO Water Special	ECY 97-602 NWTTPH-Dx 06/97	1	05/07/2008 08:20	Denise L Trimby	1



Analysis Report

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Lancaster Laboratories Sample No. WW5347835

Group No. 1089057

DUP-4-0429-08 Grab Water Sample
Facility# 211577
631 Queen Anne Ave N - Seattle, WA
Collected: 04/29/2008 by MG

Account Number: 11255

Submitted: 05/01/2008 09:50
Reported: 05/12/2008 at 22:09
Discard: 06/12/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

QDUP4



Analysis Report

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Lancaster Laboratories Sample No. WW5347836

Group No. 1089057

MW-19 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 04/29/2008 13:55 by MG

Account Number: 11255

Submitted: 05/01/2008 09:50

Chevron

Reported: 05/12/2008 at 22:09

6001 Bollinger Canyon Rd L4310

Discard: 06/12/2008

San Ramon CA 94583

QMW19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	78.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	98.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	90.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	2.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/07/2008 22:02	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/06/2008 20:29	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/07/2008 12:03	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/06/2008 20:29	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/07/2008 12:03	Ginelle L Feister	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/07/2008 08:20	Denise L Trimby	1



Analysis Report

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Lancaster Laboratories Sample No. WW5347837

Group No. 1089057

RW-2 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 04/29/2008 14:55 by MG

Account Number: 11255

Submitted: 05/01/2008 09:50

Chevron

Reported: 05/12/2008 at 22:09

6001 Bollinger Canyon Rd L4310

Discard: 06/12/2008

San Ramon CA 94583

QARW2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	890.	76.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	95.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	190.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	12.	0.5	ug/l	1
05407	Toluene	108-88-3	1.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	0.9	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	2.	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/07/2008 22:21	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/06/2008 21:03	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/07/2008 12:27	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/06/2008 21:03	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/07/2008 12:27	Ginelle L Feister	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/07/2008 08:20	Denise L Trimby	1



Analysis Report

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Lancaster Laboratories Sample No. **WW5347838**

Group No. **1089057**

MW-32 Grab Water Sample

Facility# **211577**

631 Queen Anne Ave N - Seattle, WA

Collected: 04/29/2008 16:50 by MG

Account Number: 11255

Submitted: 05/01/2008 09:50

Chevron

Reported: 05/12/2008 at 22:09

6001 Bollinger Canyon Rd L4310

Discard: 06/12/2008

San Ramon CA 94583

QMW32

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	79.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	98.	ug/l	1
08273	TPH by NWTTPH-Gx waters					
01645	TPH by NWTTPH-Gx waters	n.a.	95.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	77.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	9.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	2.	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTTPH-Dx(water) w/SiGel	ECY 97-602 NWTTPH-Dx modified	1	05/07/2008 22:41	Heather E Williams	1
08273	TPH by NWTTPH-Gx waters	ECY 97-602 NWTTPH-Gx modified	1	05/06/2008 21:36	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/07/2008 12:50	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/06/2008 21:36	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/07/2008 12:50	Ginelle L Feister	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTTPH-Dx 06/97	1	05/07/2008 08:20	Denise L Trimby	1



Analysis Report

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Lancaster Laboratories Sample No. WW5347839

Group No. 1089057

FB-3-042908 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 04/29/2008 16:51 by MG

Account Number: 11255

Submitted: 05/01/2008 09:50

Chevron

Reported: 05/12/2008 at 22:09

6001 Bollinger Canyon Rd L4310

Discard: 06/12/2008

San Ramon CA 94583

QAFB3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/06/2008 16:37	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 09:00	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/06/2008 16:37	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/06/2008 09:00	Ginelle L Feister	1



Analysis Report

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Lancaster Laboratories Sample No. WW5347840

Group No. 1089057

DPE-8 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 04/29/2008 16:40 by MG

Account Number: 11255

Submitted: 05/01/2008 09:50

Chevron

Reported: 05/12/2008 at 22:09

6001 Bollinger Canyon Rd L4310

Discard: 06/12/2008

San Ramon CA 94583

QDPE8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
02211	TPH by NWTPH-Dx(water) w/SiGel						
02095	Diesel Range Organics	n.a.	38,000.	1,600.		ug/l	2
02096	Heavy Range Organics	n.a.	8,900.	2,000.		ug/l	2
Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.							
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	4,500.	500.		ug/l	10
06053	BTEX by 8260B						
05401	Benzene	71-43-2	14.	0.5		ug/l	1
05407	Toluene	108-88-3	5.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	11.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	29.	0.5		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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/08/2008 16:02	Heather E Williams	2
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/07/2008 03:41	Patrick N Evans	10
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 09:24	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/07/2008 03:41	Patrick N Evans	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/06/2008 09:24	Ginelle L Feister	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/07/2008 08:20	Denise L Trimby	1



Analysis Report

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Lancaster Laboratories Sample No. **WW5347841**

Group No. **1089057**

FB-2-042908 Grab Water Sample

Facility# **211577**

631 Queen Anne Ave N - Seattle, WA

Collected: 04/29/2008 16:42 by MG

Account Number: 11255

Submitted: 05/01/2008 09:50

Reported: 05/12/2008 at 22:09

Discard: 06/12/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

QAFB2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08273	TPH by NWTTPH-Gx waters						
01645	TPH by NWTTPH-Gx waters	n.a.	N.D.	50.		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08273	TPH by NWTTPH-Gx waters	ECY 97-602 NWTTPH-Gx modified	1	05/06/2008 17:10	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 09:47	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/06/2008 17:10	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/06/2008 09:47	Ginelle L Feister	1

Quality Control Summary

 Client Name: Chevron
 Reported: 05/12/08 at 10:09 PM

Group Number: 1089057

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>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: 08125A51A TPH by NWTPH-Gx waters	Sample number(s): 5347824-5347826, 5347829 N.D.	50.	ug/l	87	90	75-135	4	30
Batch number: 081270014A Diesel Range Organics Heavy Range Organics	Sample number(s): 5347825-5347834 N.D. N.D.	80. 100.	ug/l ug/l	81		61-106		
Batch number: 081270015A Diesel Range Organics Heavy Range Organics	Sample number(s): 5347835-5347838, 5347840 N.D. N.D.	80. 100.	ug/l ug/l	79		61-106		
Batch number: 08127A51A TPH by NWTPH-Gx waters	Sample number(s): 5347831-5347841 N.D.	50.	ug/l	89	93	75-135	4	30
Batch number: D081264AA Benzene Toluene Ethylbenzene Xylene (Total)	Sample number(s): 5347824-5347826, 5347829, 5347831-5347835 N.D. N.D. N.D. N.D.	0.5 0.5 0.5 0.5	ug/l ug/l ug/l ug/l	96 96 95 97		78-119 85-115 82-119 83-113		
Batch number: D081271AA Benzene Toluene Ethylbenzene Xylene (Total)	Sample number(s): 5347839-5347841 N.D. N.D. N.D. N.D.	0.5 0.5 0.5 0.5	ug/l ug/l ug/l ug/l	96 94 92 95		78-119 85-115 82-119 83-113		
Batch number: D081281AA Benzene Toluene Ethylbenzene Xylene (Total)	Sample number(s): 5347836-5347838 N.D. N.D. N.D. N.D.	0.5 0.5 0.5 0.5	ug/l ug/l ug/l ug/l	100 100 95 99		78-119 85-115 82-119 83-113		

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: 08125A51A TPH by NWTPH-Gx waters	Sample number(s): 5347824-5347826, 5347829 94		63-154			UNSPK: P343592			
Batch number: 081270014A Diesel Range Organics Heavy Range Organics	Sample number(s): 5347825-5347834					BKG: 5347829 11,000. N.D.	9,600. N.D.	14 (1) 0 (1)	20 20

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron Group Number: 1089057
 Reported: 05/12/08 at 10:09 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

<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: 081270015A	Sample number(s): 5347835-5347838, 5347840 BKG: 5347840								
Diesel Range Organics						38,000.	32,000.	17	20
Heavy Range Organics						8,900.	8,300.	7 (1)	20
Batch number: 08127A51A	Sample number(s): 5347831-5347841 UNSPK: 5347831								
TPH by NWTPH-Gx waters	79		63-154						
Batch number: D081264AA	Sample number(s): 5347824-5347826, 5347829, 5347831-5347835 UNSPK: P347582								
Benzene	97	96	83-128	1	30				
Toluene	98	96	83-127	3	30				
Ethylbenzene	97	95	82-129	2	30				
Xylene (Total)	98	96	82-130	1	30				
Batch number: D081271AA	Sample number(s): 5347839-5347841 UNSPK: P346785								
Benzene	102	106	83-128	4	30				
Toluene	101	104	83-127	3	30				
Ethylbenzene	107	111	82-129	3	30				
Xylene (Total)	101	104	82-130	2	30				
Batch number: D081281AA	Sample number(s): 5347836-5347838 UNSPK: P348960								
Benzene	106	105	83-128	1	30				
Toluene	106	105	83-127	2	30				
Ethylbenzene	101	101	82-129	0	30				
Xylene (Total)	103	102	82-130	1	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: TPH by NWTPH-Gx waters
 Batch number: 08125A51A
 Trifluorotoluene-F

5347824	109
5347825	108
5347826	105
5347829	102
Blank	111
LCS	100
LCSD	101
MS	101

Limits: 63-135

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel
 Batch number: 081270014A
 Orthoterphenyl

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 05/12/08 at 10:09 PM

Group Number: 1089057

Surrogate Quality Control

5347825	141
5347826	114
5347827	146
5347828	124
5347829	119
5347830	103
5347831	181*
5347832	122
5347833	108
5347834	126
Blank	120
LCS	129

Limits: 50-150

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel
Batch number: 081270015A
Orthoterphenyl

5347835	112
5347836	118
5347837	117
5347838	89
5347840	153*
Blank	119
DUP	145
LCS	126

Limits: 50-150

Analysis Name: TPH by NWTPH-Gx waters
Batch number: 08127A51A
Trifluorotoluene-F

5347831	99
5347832	106
5347833	119
5347834	106
5347835	105
5347836	111
5347837	107
5347838	106
5347839	109
5347840	109
5347841	107
Blank	110
LCS	101
LCSD	102
MS	95

Limits: 63-135

Analysis Name: BTEX by 8260B
Batch number: D081264AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5347824	106	105	97	96
5347825	104	105	98	103

*- Outside of specification

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

Quality Control Summary

 Client Name: Chevron
 Reported: 05/12/08 at 10:09 PM

Group Number: 1089057

Surrogate Quality Control

5347826	104	103	97	100
5347829	104	105	102	104
5347831	103	101	99	103
5347832	98	101	98	102
5347833	103	104	98	95
5347834	99	97	100	102
5347835	96	97	101	101
Blank	106	106	98	96
LCS	103	105	98	108
MS	100	104	96	105
MSD	103	104	96	107
<hr/>				
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX by 8260B

Batch number: D081271AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5347839	103	108	95	96
5347840	102	102	99	111
5347841	104	105	96	100
Blank	102	106	93	94
LCS	97	102	91	103
MS	99	102	95	105
MSD	98	103	94	104

Limits:	80-116	77-113	80-113	78-113
---------	--------	--------	--------	--------

Analysis Name: BTEX by 8260B

Batch number: D081281AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5347836	97	99	92	93
5347837	102	106	99	102
5347838	97	102	96	99
Blank	102	108	94	97
LCS	99	103	94	106
MS	101	104	95	109
MSD	98	101	94	104

Limits:	80-116	77-113	80-113	78-113
---------	--------	--------	--------	--------

*- Outside of specification

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

Chevron Northwest Region Analysis Request/Chain of Custody



222256

For Lancaster Laboratories use only

Acct. #: 11255 Sample #: 5347824-41 SCR#: _____

NWRTB-0-021577-OML Page 1 of 2

Grp # 1089057

Facility #: 211577
 Site Address: 631 Queen Anne Ave N, SEATTLE, WA
 Chevron PM: Brett Hunter Lead Consultant: SAIC
 Consultant/Office: SAIC Bothell
 Consultant Prj. Mgr.: Peter Catterall
 Consultant Phone #: 425-482-3381 Fax #: 425-485-5566
 Sampler: Megan Gay, Tina King, Julie Wartes, Stephanie Dunham
 Service Order #: _____ Non SAR:

Matrix		Analyses Requested														
		Preservation Codes														
Soil	Water	Oil	Air	Total Number of Containers	BTEX+MTBE	8021	8260	Naphth	Extended Rng.	Silica Gel Cleanup	Lead Total	Diss.	Method	VP/IE/PH	NWTPH HClD	quantification
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>								

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

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

8021 MTBE Confirmation
 Confirm MTBE + Naphthalene
 Confirm highest hit by 8260
 Confirm all hits by 8260
 Run ___ oxy s on highest hit
 Run ___ oxy s on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX+MTBE	8021	8260	Naphth	Extended Rng.	Silica Gel Cleanup	Lead Total	Diss.	Method	VP/IE/PH	NWTPH HClD	quantification	
<u>TB-2-1909J</u>	<u>04/29/08</u>	<u>0757</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>2</u>	<input checked="" type="checkbox"/>												
<u>DPE-6</u>	<u>04/29/08</u>	<u>0845</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>8</u>	<input checked="" type="checkbox"/>												
<u>DPE-7</u>	<u>04/29/08</u>	<u>0912</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>8</u>	<input checked="" type="checkbox"/>												
<u>DUP-1-DXF-042908</u>	<u>04/29/08</u>	<u>---</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>2</u>													
<u>DUP-2-DXF-042908</u>	<u>04/29/08</u>	<u>---</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>2</u>													
<u>DPE-5</u>	<u>04/29/08</u>	<u>1000</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>8</u>	<input checked="" type="checkbox"/>												
<u>DUP-3-DXF-042908</u>	<u>04/29/08</u>	<u>---</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>2</u>													
<u>DPE-2</u>	<u>04/29/08</u>	<u>1207</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>8</u>	<input checked="" type="checkbox"/>												
<u>MW-18</u>	<u>04/29/08</u>	<u>1210</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>8</u>	<input checked="" type="checkbox"/>												
<u>MW-7</u>	<u>04/29/08</u>	<u>1255</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>8</u>	<input checked="" type="checkbox"/>												
<u>DPE-1</u>	<u>04/29/08</u>	<u>1303</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>8</u>	<input checked="" type="checkbox"/>												
<u>DUP-4-0429-08</u>	<u>04/29/08</u>	<u>---</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>8</u>	<input checked="" type="checkbox"/>												
<u>MW-19</u>	<u>4/29/08</u>	<u>1355</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>8</u>	<input checked="" type="checkbox"/>												

Comments / Remarks

HOLD - 11/28 04/29/08

Turnaround Time Requested (TAT) (please circle)

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

Relinquished by: [Signature] Date: 4/30/01 Time: 1530

Received by: _____ Date: _____ Time: _____

Data Package Options (please circle if required)

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

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Relinquished by Commercial Carrier: _____ Received by: _____ Date: 5/1/08 Time: 0650

UPS FedEx Other _____

Temperature Upon Receipt: 1.2-5.1 C° Custody Seals Intact? Yes No

Chevron Northwest Region Analysis Request/Chain of Custody

222257



For Lancaster Laboratories use only
 Acct. #: 11255 Sample #: 5347824-41 SCR#: _____

Page 2 of 2

Grp # 1089057

Facility #: 211577
 Site Address: 631 Queen Anne Ave N, Seattle WA
 Chevron PM: Brett Hunter Lead Consultant: SAIC
 Consultant/Office: SAIC Bothell
 Consultant Prj. Mgr.: Peter Catterall
 Consultant Phone #: 425-482-3321 Fax #: 425-485-5566
 Sampler: Megan Gay, Tina King, Stephanie Dunham, Julie Wartes
 Service Order #: _____ Non SAR: _____

Matrix		Analyses Requested													
		Preservation Codes													
Soil	Water	Oil	Air	Total Number of Containers	BTEX-HAPs	8021	8260	Naphth	Oxygenates	NWTPH G	NWTPH D	Lead Total	VPHEPH	NWTPH HClD	quantification
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

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

8021 MTBE Confirmation
 Confirm MTBE + Naphthalene
 Confirm highest hit by 8260
 Confirm all hits by 8260
 Run ___ oxy s on highest hit
 Run ___ oxy s on all hits

XXXXXX

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX-HAPs	8021	8260	Naphth	Oxygenates	NWTPH G	NWTPH D	Lead Total	VPHEPH	NWTPH HClD	quantification	
RW-2	04/29/08	1455	X			X			8	X					X	X					
MW-32	04/29/08	1650	X			X			8	X					X	X					
FB-3-042908	04/29/08	1651	X			X			6	X					X	X					
DPG-8	04/29/08	1640	X			X			7	X					X	X					
FB-2-042908	04/29/08	1642	X			X			6	X					X						
<i>Megan Gay</i>																					

Comments / Remarks

Turnaround Time Requested (TAT) (please circle) <input checked="" type="radio"/> STD TAT 72 hour 48 hour 24 hour 4 day 5 day	Relinquished by: <i>[Signature]</i>	Date: <u>4/30/08</u>	Time: <u>1530</u>	Received by: _____	Date: _____	Time: _____	
	Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____	
Data Package Options (please circle if required) QC Summary Type I - Full Type VI (Raw Data) Disk / EDD WIP (RWQCB) Standard Format Disk <u>EDF</u> Other.	Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____	
	Relinquished by Commercial Carrier: _____	UPS	<input checked="" type="radio"/> FedEx	Other: _____	Received by: <i>[Signature]</i>	Date: <u>5-1-08</u>	Time: <u>0950</u>
	Temperature Upon Receipt: <u>1.2-5.1</u> C°	Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No					

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 1089225. Samples arrived at the laboratory on Friday, May 02, 2008. The PO# for this group is 0015024861 and the release number is HUNTER.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
TB-3-1909J Water Sample	5349021
MW-31 Water Sample	5349022
DPE-4 Water Sample	5349023
DUP-5-043008 Water Sample	5349024
MW-30 Water Sample	5349025
DPE-8 Water Sample	5349026
MW-34 Water Sample	5349027
DUP-6-DXF-043008 Grab Water Sample	5349028

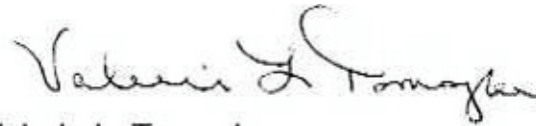
ELECTRONIC SAIC
COPY TO
ELECTRONIC SAIC
COPY TO

Attn: Tina King

Attn: Peter Catterall

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

Respectfully Submitted,



Valerie L. Tomayko
Group Leader



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW5349021

Group No. 1089225

TB-3-1909J Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 04/30/2008 07:50

Account Number: 11255

Submitted: 05/02/2008 09:20

Chevron

Reported: 05/13/2008 at 13:32

6001 Bollinger Canyon Rd L4310

Discard: 06/13/2008

San Ramon CA 94583

QATB3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/07/2008 14:17	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 13:15	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/07/2008 14:17	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/06/2008 13:15	Ginelle L Feister	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW5349022

Group No. 1089225

MW-31 Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 04/30/2008 09:10 by JW

Account Number: 11255

Submitted: 05/02/2008 09:20

Chevron

Reported: 05/13/2008 at 13:32

6001 Bollinger Canyon Rd L4310

Discard: 06/13/2008

San Ramon CA 94583

QAW31

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	81.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	100.	ug/l	1
08273	TPH by NWTTPH-Gx waters					
01645	TPH by NWTTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTTPH-Dx(water) w/SiGel	ECY 97-602 NWTTPH-Dx modified	1	05/08/2008 23:57	Heather E Williams	1
08273	TPH by NWTTPH-Gx waters	ECY 97-602 NWTTPH-Gx modified	1	05/07/2008 18:43	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 13:38	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/07/2008 18:43	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/06/2008 13:38	Ginelle L Feister	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTTPH-Dx 06/97	1	05/08/2008 09:45	Olivia I Santiago	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. **WW5349023**

Group No. **1089225**

DPE-4 Water Sample

Facility# **211577**

631 Queen Anne Ave N - Seattle, WA

Collected: 04/30/2008 11:30 by JW

Account Number: 11255

Submitted: 05/02/2008 09:20

Chevron

Reported: 05/13/2008 at 13:32

6001 Bollinger Canyon Rd L4310

Discard: 06/13/2008

San Ramon CA 94583

QAPE4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	5,200.	2,000.	ug/l	25
02096	Heavy Range Organics	n.a.	N.D.	2,500.	ug/l	25
Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.						
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	410.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	51.	0.5	ug/l	1
05407	Toluene	108-88-3	3.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	2.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	23.	0.5	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
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/09/2008 19:02	Heather E Williams	25
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/07/2008 20:23	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 14:01	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/07/2008 20:23	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/06/2008 14:01	Ginelle L Feister	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/08/2008 09:45	Olivia I Santiago	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. **WW5349024**

Group No. **1089225**

DUP-5-043008 Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 04/30/2008 by JW

Account Number: 11255

Submitted: 05/02/2008 09:20

Reported: 05/13/2008 at 13:32

Discard: 06/13/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

QDUP5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	2,500.	1,600.	ug/l	20
02096	Heavy Range Organics	n.a.	N.D.	2,000.	ug/l	20
Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.						
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	390.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	51.	0.5	ug/l	1
05407	Toluene	108-88-3	3.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	2.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	23.	0.5	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
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/09/2008 16:25	Heather E Williams	20
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/07/2008 20:56	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 14:24	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/07/2008 20:56	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/06/2008 14:24	Ginelle L Feister	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/08/2008 09:45	Olivia I Santiago	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW5349025

Group No. 1089225

MW-30 Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 04/30/2008 13:00 by JW

Account Number: 11255

Submitted: 05/02/2008 09:20

Chevron

Reported: 05/13/2008 at 13:32

6001 Bollinger Canyon Rd L4310

Discard: 06/13/2008

San Ramon CA 94583

QMW30

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	1,570.	52.2	ug/l	1
07058	Manganese	7439-96-5	144.	0.84	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460.	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	228,000.	460.	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	16,500.	1,500.	ug/l	5
00230	Sulfide	18496-25-8	N.D.	54.	ug/l	1
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	77.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	97.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	05/08/2008 08:47	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	05/08/2008 08:47	Joanne M Gates	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	05/08/2008 22:00	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	05/08/2008 22:00	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	05/13/2008 00:16	Ashley M Heckman	5

Lancaster Laboratories Sample No. WW5349025

Group No. 1089225

MW-30 Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 04/30/2008 13:00 by JW

Account Number: 11255

Submitted: 05/02/2008 09:20

Chevron

Reported: 05/13/2008 at 13:32

6001 Bollinger Canyon Rd L4310

Discard: 06/13/2008

San Ramon CA 94583

QMW30

00230	Sulfide	SM20 4500 S2 D	1	05/06/2008 21:52	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/09/2008 00:56	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/07/2008 21:29	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 14:47	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/07/2008 21:29	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/06/2008 14:47	Ginelle L Feister	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/03/2008 14:00	Mirit S Shenouda	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/08/2008 09:45	Olivia I Santiago	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW5349026

Group No. 1089225

DPE-8 Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 04/30/2008 14:50 by JW

Account Number: 11255

Submitted: 05/02/2008 09:20

Chevron

Reported: 05/13/2008 at 13:32

6001 Bollinger Canyon Rd L4310

Discard: 06/13/2008

San Ramon CA 94583

QAPE8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
02211	TPH by NWTPH-Dx(water) w/SiGel						
02095	Diesel Range Organics	n.a.	820,000.		40,000.	ug/l	50
02096	Heavy Range Organics	n.a.	190,000.		50,000.	ug/l	50

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

Due to the nature of the sample extract matrix, the extract could only be concentrated to a final volume of 2 ml instead of the usual volume of 1 ml. The reporting limits were raised accordingly.

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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/09/2008 14:47	Heather E Williams	50
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/08/2008 14:00	Kelli M Barto	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW5349027

Group No. 1089225

MW-34 Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 04/30/2008 14:55 by JW

Account Number: 11255

Submitted: 05/02/2008 09:20

Chevron

Reported: 05/13/2008 at 13:32

6001 Bollinger Canyon Rd L4310

Discard: 06/13/2008

San Ramon CA 94583

QMW34

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	1,750.	52.2	ug/l	1
07058	Manganese	7439-96-5	37.4	0.84	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460.	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	113,000.	460.	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	23,000.	1,500.	ug/l	5
00230	Sulfide	18496-25-8	N.D.	54.	ug/l	1
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	80.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	100.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	05/08/2008 08:50	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	05/08/2008 08:50	Joanne M Gates	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	05/08/2008 22:00	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	05/08/2008 22:00	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	05/13/2008 00:30	Ashley M Heckman	5

Lancaster Laboratories Sample No. WW5349027

Group No. 1089225

MW-34 Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 04/30/2008 14:55 by JW

Account Number: 11255

Submitted: 05/02/2008 09:20

Reported: 05/13/2008 at 13:32

Discard: 06/13/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

QMW34

00230	Sulfide	SM20 4500 S2 D	1	05/06/2008 21:52	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/09/2008 09:27	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/07/2008 22:02	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/06/2008 15:10	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/07/2008 22:02	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/06/2008 15:10	Ginelle L Feister	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/03/2008 14:00	Mirit S Shenouda	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/08/2008 14:00	Kelli M Barto	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW5349028

Group No. 1089225

DUP-6-DXF-043008 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 04/30/2008 by JW

Account Number: 11255

Submitted: 05/02/2008 09:20

Chevron

Reported: 05/13/2008 at 13:32

6001 Bollinger Canyon Rd L4310

Discard: 06/13/2008

San Ramon CA 94583

QDUP6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	3,900.	340.	ug/l	2
02096	Heavy Range Organics	n.a.	N.D.	420.	ug/l	2
Due to insufficient sample size, we were unable to report our usual reporting limits. The values reported represent the lowest reporting limits attainable.						

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
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/09/2008 15:26	Heather E Williams	2
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/08/2008 14:00	Kelli M Barto	1

Quality Control Summary

 Client Name: Chevron
 Reported: 05/13/08 at 01:32 PM

Group Number: 1089225

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>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: 081231848011	Sample number(s): 5349025,5349027							
Iron	N.D.	52.2	ug/l	108		90-112		
Manganese	N.D.	0.84	ug/l	101		90-110		
Batch number: 08127023001A	Sample number(s): 5349025,5349027							
Sulfide	N.D.	54.	ug/l	100		90-110		
Batch number: 081280030A	Sample number(s): 5349022-5349025							
Diesel Range Organics	N.D.	80.	ug/l	69	70	61-106	2	20
Heavy Range Organics	N.D.	100.	ug/l					
Batch number: 08128A51A	Sample number(s): 5349021-5349025,5349027							
TPH by NWTPH-Gx waters	N.D.	50.	ug/l	91	91	75-135	0	30
Batch number: 081290011A	Sample number(s): 5349026-5349028							
Diesel Range Organics	N.D.	80.	ug/l	78		61-106		
Heavy Range Organics	N.D.	100.	ug/l					
Batch number: 08129020202A	Sample number(s): 5349025,5349027							
Alkalinity to pH 4.5	N.D.	460.	ug/l as CaCO3	100		98-103		
Batch number: 08133196101A	Sample number(s): 5349025,5349027							
Sulfate	N.D.	300.	ug/l	97		89-110		
Batch number: D081271AA	Sample number(s): 5349021-5349025,5349027							
Benzene	N.D.	0.5	ug/l	96		78-119		
Toluene	N.D.	0.5	ug/l	94		85-115		
Ethylbenzene	N.D.	0.5	ug/l	92		82-119		
Xylene (Total)	N.D.	0.5	ug/l	95		83-113		

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: 081231848011	Sample number(s): 5349025,5349027 UNSPK: P347813 BKG: P347813								
Iron	97	95	75-125	1	20	330.	331.	0 (1)	20
Manganese	92 (2)	83 (2)	75-125	1	20	3,020.	3,040.	1	20
Batch number: 08127023001A	Sample number(s): 5349025,5349027 UNSPK: P350039 BKG: P350039								
Sulfide	100	99	35-169	1	18	N.D.	N.D.	0 (1)	7

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron Group Number: 1089225
 Reported: 05/13/08 at 01:32 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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Batch number: 08128A51A TPH by NWTPH-Gx waters	90		63-154						
Batch number: 081290011A Diesel Range Organics Heavy Range Organics						5349026 820,000. 190,000.	620,000. 150,000.	28* (1) 24* (1)	20 20
Batch number: 08129020202A Alkalinity to pH 8.3 Alkalinity to pH 4.5	97	98	64-130	0	2	UNSPK: P346280 N.D. 288,000.	BKG: P346280 N.D. 290,000.	0 (1) 1	4 4
Batch number: 08133196101A Sulfate	97		90-110			UNSPK: P348732 N.D.	BKG: P348732 N.D.	0 (1)	20
Batch number: D081271AA Benzene Toluene Ethylbenzene Xylene (Total)	102 101 107 101	106 104 111 104	83-128 83-127 82-129 82-130	4 3 3 2	30 30 30 30	UNSPK: P346785			

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(water) w/SiGel
 Batch number: 081280030A
 Orthoterphenyl

5349022	78
5349023	102
5349024	94
5349025	99
Blank	98
LCS	112
LCSD	111

Limits: 50-150

Analysis Name: TPH by NWTPH-Gx waters
 Batch number: 08128A51A
 Trifluorotoluene-F

5349021	110
5349022	105
5349023	112
5349024	108
5349025	111
5349027	111
Blank	110

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 05/13/08 at 01:32 PM

Group Number: 1089225

Surrogate Quality Control

LCS 105
LCSD 105
MS 104

Limits: 63-135

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel
Batch number: 081290011A
Orthoterphenyl

5349026 427*
5349027 101
5349028 124
Blank 96
DUP 204*
LCS 118

Limits: 50-150

Analysis Name: BTEX by 8260B
Batch number: D081271AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5349021	103	105	95	97
5349022	103	105	94	96
5349023	100	102	95	101
5349024	100	103	97	103
5349025	104	106	95	97
5349027	103	105	95	96
Blank	102	106	93	94
LCS	97	102	91	103
MS	99	102	95	105
MSD	98	103	94	104

Limits: 80-116 77-113 80-113 78-113

*- Outside of specification

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

Chevron Northwest Region Analysis Request/Chain of Custody



222472
 For Lancaster Laboratories use only
 Acct. # 11255 Sample # 5349021-28 SCR# _____

Grp # 1089225

NWRTB-0211577-OML Page 1 of 2

Facility #: <u>211577</u> Site Address: <u>631 Queen Anne Ave N, Seattle, WA</u> Chevron PM: <u>Brett Hunter</u> Lead Consultant: <u>SAIC</u> Consultant/Office: <u>SAIC Bothell</u> Consultant Prj. Mgr.: <u>Peter Catterall</u> Consultant Phone #: <u>425-482-3321</u> Fax #: <u>425-485-5566</u> Sampler: <u>J. Wartes, S. Dunham, T. King, G. Cisneros, M. Gay</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____			Matrix <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/> Composite		Analyses Requested Preservation Codes <input type="checkbox"/> BTEX + MPBE - 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan Oxygenates <input checked="" type="checkbox"/> MWTPH G <input checked="" type="checkbox"/> MWTPH D <input checked="" type="checkbox"/> Extended Rng. <input checked="" type="checkbox"/> Silica Gel Cleanup Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method _____ VP/HEP NWTPH HClD <input type="checkbox"/> quantification Sulfate Iron/Manganese Sulfide Alkalinity/Alkalinity										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input type="checkbox"/> Run ___ oxy s on all hits											
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MPBE - 8021	8260 full scan	Oxygenates	MWTPH G	MWTPH D	Extended Rng. Silica Gel Cleanup	Lead Total	Diss.	Method	VP/HEP	NWTPH HClD	quantification	Sulfate	Iron/Manganese	Sulfide	Alkalinity/Alkalinity	Comments / Remarks
TB-3-1909J	04/30/08	0750				X			2	X			X													
MW-31	04/30/08	0910				X			8	X			X	X												
DPE-4	04/30/08	1130				X			8	X			X	X												
DUP-5-648008	04/30/08	---				X			8	X			X	X												
MW-30	04/30/08	1300				X			15	X			X	X								X	X	X	X	
DPE-8	04/30/08	1415				X			8	X			X	X												
MW-34	04/30/08	1455				X			12	X			X	X								X	X	X	X	
Megan Gay Megan Gay																										
Turnaround Time Requested (TAT) (please circle) (STD. TAT) 72 hour 48 hour 24 hour 4 day 5 day										Relinquished by: <u>[Signature]</u> Date: <u>5/01/08</u> Time: <u>1530</u>		Received by: _____ Date: _____ Time: _____														
Data Package Options (please circle if required) QC Summary Type I - Full Type VI (Raw Data) Disk / EDD WIP (RWQCB) Standard Format Disk EDF Other.										Relinquished by: _____ Date: _____ Time: _____		Received by: _____ Date: _____ Time: _____														
Relinquished by Commercial Carrier: UPS <input type="checkbox"/> FedEx <input checked="" type="checkbox"/> Other _____ Temperature Upon Receipt <u>16°-20°C</u>										Received by: <u>[Signature]</u> Date: <u>5-3-08</u> Time: <u>0920</u>		Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No														

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 17605-2425SAMPLE GROUP

The sample group for this submittal is 1089455. Samples arrived at the laboratory on Saturday, May 03, 2008. The PO# for this group is 0015024861 and the release number is HUNTER.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
TB-4-1909J Water Sample	5350497
MW-35 Grab Water Sample	5350498
MW-26 Grab Water Sample	5350499
DUP-7-050108 Grab Water Sample	5350500
MW-17 Grab Water Sample	5350501
MW-21 Grab Water Sample	5350502
MW-6 Grab Water Sample	5350503
MW-10 Grab Water Sample	5350504
TB-5-1909J Water Sample	5350505
MW-16 Grab Water Sample	5350506

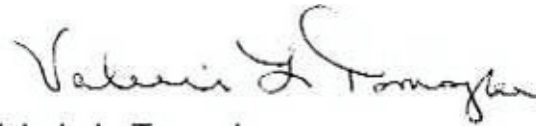
ELECTRONIC SAIC
COPY TO
ELECTRONIC SAIC
COPY TO

Attn: Tina King

Attn: Peter Catterall

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

Respectfully Submitted,



Valerie L. Tomayko
Group Leader



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW5350497

Group No. 1089455

TB-4-1909J Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 05/01/2008 08:30

Account Number: 11255

Submitted: 05/03/2008 10:40

Chevron

Reported: 05/15/2008 at 18:13

6001 Bollinger Canyon Rd L4310

Discard: 06/15/2008

San Ramon CA 94583

QATB4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/08/2008 10:17	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/07/2008 00:38	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/08/2008 10:17	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/07/2008 00:38	Michael A Ziegler	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. **WW5350498**

Group No. **1089455**

MW-35 Grab Water Sample

Facility# **211577**

631 Queen Anne Ave N - Seattle, WA

Collected: 05/01/2008 08:30 by GC

Account Number: 11255

Submitted: 05/03/2008 10:40

Chevron

Reported: 05/15/2008 at 18:13

6001 Bollinger Canyon Rd L4310

Discard: 06/15/2008

San Ramon CA 94583

QAW35

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	2,010.	52.2	ug/l	1
07058	Manganese	7439-96-5	3,620.	0.84	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460.	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	391,000.	460.	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	N.D.	1,500.	ug/l	5
00230	Sulfide	18496-25-8	N.D.	54.	ug/l	1
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	180.	81.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	100.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	110.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	45.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	05/13/2008 22:09	John P Hook	1
07058	Manganese	SW-846 6010B	1	05/12/2008 13:17	Joanne M Gates	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	05/08/2008 22:00	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	05/08/2008 22:00	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	05/13/2008 17:18	Ashley M Heckman	5

Lancaster Laboratories Sample No. WW5350498

Group No. 1089455

MW-35 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 05/01/2008 08:30 by GC

Account Number: 11255

Submitted: 05/03/2008 10:40

Chevron

Reported: 05/15/2008 at 18:13

6001 Bollinger Canyon Rd L4310

Discard: 06/15/2008

San Ramon CA 94583

QAW35

00230	Sulfide	SM20 4500 S2 D	1	05/06/2008 21:52	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/11/2008 16:24	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/08/2008 12:29	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/07/2008 01:03	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/08/2008 12:29	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/07/2008 01:03	Michael A Ziegler	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/05/2008 19:56	James L Mertz	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/09/2008 11:00	Olivia Arosemena	1

Lancaster Laboratories Sample No. WW5350499
Group No. 1089455
MW-26 Grab Water Sample
Facility# 211577
631 Queen Anne Ave N - Seattle, WA

Collected: 05/01/2008 09:45 by GC

Account Number: 11255

Submitted: 05/03/2008 10:40

Chevron

Reported: 05/15/2008 at 18:13

6001 Bollinger Canyon Rd L4310

Discard: 06/15/2008

San Ramon CA 94583

QAW26

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	3,030.	52.2	ug/l	1
07058	Manganese	7439-96-5	3,660.	0.84	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460.	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	129,000.	460.	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	137,000.	3,000.	ug/l	10
00230	Sulfide	18496-25-8	57.	54.	ug/l	1
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	280.	76.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	95.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	130.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	9.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	4.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	05/10/2008 02:42	Choon Y Tian	1
07058	Manganese	SW-846 6010B	1	05/10/2008 02:42	Choon Y Tian	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	05/08/2008 22:00	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	05/08/2008 22:00	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	05/14/2008 20:03	Ashley M Heckman	10

Lancaster Laboratories Sample No. WW5350499

Group No. 1089455

MW-26 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 05/01/2008 09:45 by GC

Account Number: 11255

Submitted: 05/03/2008 10:40

Reported: 05/15/2008 at 18:13

Discard: 06/15/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

QAW26

00230	Sulfide	SM20 4500 S2 D	1	05/06/2008 21:52	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/11/2008 16:44	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/08/2008 13:03	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/07/2008 01:27	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/08/2008 13:03	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/07/2008 01:27	Michael A Ziegler	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/08/2008 18:40	Annamaria Stipkovits	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/09/2008 11:00	Olivia Arosemena	1



Analysis Report

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Lancaster Laboratories Sample No. WW5350500

Group No. 1089455

DUP-7-050108 Grab Water Sample
 Facility# 211577
 631 Queen Anne Ave N - Seattle, WA
 Collected: 05/01/2008 by GC

Account Number: 11255

Submitted: 05/03/2008 10:40
 Reported: 05/15/2008 at 18:13
 Discard: 06/15/2008

Chevron
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

QADU7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	3,210.	52.2	ug/l	1
07058	Manganese	7439-96-5	3,660.	0.84	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460.	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	131,000.	460.	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	133,000.	3,000.	ug/l	10
00230	Sulfide	18496-25-8	N.D.	54.	ug/l	1
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	630.	79.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	99.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	140.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	10.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	5.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	05/10/2008 02:47	Choon Y Tian	1
07058	Manganese	SW-846 6010B	1	05/10/2008 02:47	Choon Y Tian	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	05/08/2008 22:00	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	05/08/2008 22:00	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	05/14/2008 20:17	Ashley M Heckman	10

Lancaster Laboratories Sample No. WW5350500

Group No. 1089455

DUP-7-050108 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 05/01/2008 by GC

Account Number: 11255

Submitted: 05/03/2008 10:40

Reported: 05/15/2008 at 18:13

Discard: 06/15/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

QADU7

00230	Sulfide	SM20 4500 S2 D	1	05/06/2008 21:52	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/11/2008 17:03	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/08/2008 15:30	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/07/2008 01:51	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/08/2008 15:30	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/07/2008 01:51	Michael A Ziegler	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/08/2008 18:40	Annamaria Stipkovits	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/09/2008 11:00	Olivia Arosemena	1



Analysis Report

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Lancaster Laboratories Sample No. WW5350501

Group No. 1089455

MW-17 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 05/01/2008 11:00 by GC

Account Number: 11255

Submitted: 05/03/2008 10:40

Chevron

Reported: 05/15/2008 at 18:13

6001 Bollinger Canyon Rd L4310

Discard: 06/15/2008

San Ramon CA 94583

QAW17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	2,820.	52.2	ug/l	1
07058	Manganese	7439-96-5	2,570.	0.84	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460.	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	111,000.	460.	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	27,600.	1,500.	ug/l	5
00230	Sulfide	18496-25-8	N.D.	54.	ug/l	1
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	82.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	100.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	190.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	32.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	19.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	0.6	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	05/10/2008 00:54	Choon Y Tian	1
07058	Manganese	SW-846 6010B	1	05/10/2008 00:54	Choon Y Tian	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	05/08/2008 22:00	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	05/08/2008 22:00	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	05/13/2008 18:28	Ashley M Heckman	5

Lancaster Laboratories Sample No. WW5350501

Group No. 1089455

MW-17 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 05/01/2008 11:00 by GC

Account Number: 11255

Submitted: 05/03/2008 10:40

Reported: 05/15/2008 at 18:13

Discard: 06/15/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

QAW17

00230	Sulfide	SM20 4500 S2 D	1	05/06/2008 21:52	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/11/2008 17:23	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/08/2008 16:04	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/07/2008 02:15	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/08/2008 16:04	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/07/2008 02:15	Michael A Ziegler	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/08/2008 18:40	Annamaria Stipkovits	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/09/2008 11:00	Olivia Arosemena	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW5350502

Group No. 1089455

MW-21 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 05/01/2008 11:45 by GC

Account Number: 11255

Submitted: 05/03/2008 10:40

Chevron

Reported: 05/15/2008 at 18:13

6001 Bollinger Canyon Rd L4310

Discard: 06/15/2008

San Ramon CA 94583

QAW21

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	8,110.	52.2	ug/l	1
07058	Manganese	7439-96-5	395.	0.84	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460.	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	268,000.	460.	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	21,900.	1,500.	ug/l	5
00230	Sulfide	18496-25-8	N.D.	54.	ug/l	1
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	78.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	97.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	83.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	160.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	05/10/2008 02:51	Choon Y Tian	1
07058	Manganese	SW-846 6010B	1	05/10/2008 02:51	Choon Y Tian	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	05/08/2008 22:00	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	05/08/2008 22:00	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	05/13/2008 18:42	Ashley M Heckman	5

Lancaster Laboratories Sample No. WW5350502

Group No. 1089455

MW-21 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 05/01/2008 11:45 by GC

Account Number: 11255

Submitted: 05/03/2008 10:40

Chevron

Reported: 05/15/2008 at 18:13

6001 Bollinger Canyon Rd L4310

Discard: 06/15/2008

San Ramon CA 94583

QAW21

00230	Sulfide	SM20 4500 S2 D	1	05/06/2008 21:52	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/11/2008 18:02	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/08/2008 16:37	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/07/2008 02:39	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/08/2008 16:37	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/07/2008 02:39	Michael A Ziegler	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/08/2008 18:40	Annamaria Stipkovits	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/09/2008 11:00	Olivia Arosemena	1



Analysis Report

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Lancaster Laboratories Sample No. WW5350503

Group No. 1089455

MW-6 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 05/01/2008 13:40 by GC

Account Number: 11255

Submitted: 05/03/2008 10:40

Chevron

Reported: 05/15/2008 at 18:13

6001 Bollinger Canyon Rd L4310

Discard: 06/15/2008

San Ramon CA 94583

QAMW6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	22,900.	52.2	ug/l	1
07058	Manganese	7439-96-5	5,170.	0.84	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460.	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	57,400.	460.	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	155,000.	6,000.	ug/l	20
00230	Sulfide	18496-25-8	270.	54.	ug/l	1
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	8,600.	810.	ug/l	10
02096	Heavy Range Organics	n.a.	1,200.	1,000.	ug/l	10
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	360.	250.	ug/l	5
Due to excessive foaming of the sample, normal reporting limits were not attained.						
06053	BTEX by 8260B					
05401	Benzene	71-43-2	3.	0.5	ug/l	1
05407	Toluene	108-88-3	0.7	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	5.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	3.	0.5	ug/l	1

State of Washington Lab Certification No. C259

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Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	05/10/2008 02:55	Choon Y Tian	1
07058	Manganese	SW-846 6010B	1	05/10/2008 02:55	Choon Y Tian	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	05/09/2008 18:21	Geraldine C Smith	1

Lancaster Laboratories Sample No. WW5350503

Group No. 1089455

MW-6 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 05/01/2008 13:40 by GC

Account Number: 11255

Submitted: 05/03/2008 10:40

Reported: 05/15/2008 at 18:13

Discard: 06/15/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

QAMW6

00202	Alkalinity to pH 4.5	SM20 2320 B	1	05/09/2008 18:21	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	05/14/2008 21:54	Ashley M Heckman	20
00230	Sulfide	SM20 4500 S2 D	1	05/06/2008 21:52	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/12/2008 14:33	Heather E Williams	10
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/08/2008 18:50	Patrick N Evans	5
06053	BTEX by 8260B	SW-846 8260B	1	05/07/2008 03:28	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/08/2008 18:50	Patrick N Evans	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/07/2008 03:28	Michael A Ziegler	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/08/2008 18:40	Annamaria Stipkovits	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/09/2008 11:00	Olivia Arosemena	1

Lancaster Laboratories Sample No. WW5350504
Group No. 1089455
MW-10 Grab Water Sample
Facility# 211577
631 Queen Anne Ave N - Seattle, WA

Collected: 05/01/2008 14:45 by GC

Account Number: 11255

Submitted: 05/03/2008 10:40

Chevron

Reported: 05/15/2008 at 18:13

6001 Bollinger Canyon Rd L4310

Discard: 06/15/2008

San Ramon CA 94583

QAW10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	32,800.	52.2	ug/l	1
07058	Manganese	7439-96-5	3,110.	0.84	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460.	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	208,000.	460.	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	33,900.	1,500.	ug/l	5
00230	Sulfide	18496-25-8	N.D.	54.	ug/l	1
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	77.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	97.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	0.8	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	05/12/2008 01:15	Choon Y Tian	1
07058	Manganese	SW-846 6010B	1	05/12/2008 01:15	Choon Y Tian	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	05/09/2008 18:21	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	05/09/2008 18:21	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	05/13/2008 23:46	Ashley M Heckman	5

Lancaster Laboratories Sample No. WW5350504

Group No. 1089455

MW-10 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 05/01/2008 14:45 by GC

Account Number: 11255

Submitted: 05/03/2008 10:40

Reported: 05/15/2008 at 18:13

Discard: 06/15/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

QAW10

00230	Sulfide	SM20 4500 S2 D	1	05/06/2008 21:52	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/11/2008 18:22	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/08/2008 17:10	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/07/2008 03:52	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/08/2008 17:10	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/07/2008 03:52	Michael A Ziegler	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/11/2008 08:15	Deborah A Krady	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/09/2008 11:00	Olivia Arosemena	1



Analysis Report

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Lancaster Laboratories Sample No. WW5350505

Group No. 1089455

TB-5-1909J Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 05/02/2008 08:00

Account Number: 11255

Submitted: 05/03/2008 10:40

Chevron

Reported: 05/15/2008 at 18:13

6001 Bollinger Canyon Rd L4310

Discard: 06/15/2008

San Ramon CA 94583

QATB5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/08/2008 08:37	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/07/2008 04:16	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/08/2008 08:37	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/07/2008 04:16	Michael A Ziegler	1

Lancaster Laboratories Sample No. WW5350506
Group No. 1089455
MW-16 Grab Water Sample
Facility# 211577
631 Queen Anne Ave N - Seattle, WA

Collected: 05/02/2008 08:15 by GC

Account Number: 11255

Submitted: 05/03/2008 10:40

Chevron

Reported: 05/15/2008 at 18:13

6001 Bollinger Canyon Rd L4310

Discard: 06/15/2008

San Ramon CA 94583

QAW16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01754	Iron	7439-89-6	2,250.	52.2	ug/l	1
07058	Manganese	7439-96-5	1,240.	0.84	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460.	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	121,000.	460.	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	23,900.	1,500.	ug/l	5
00230	Sulfide	18496-25-8	N.D.	54.	ug/l	1
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	79.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	99.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	05/12/2008 01:20	Choon Y Tian	1
07058	Manganese	SW-846 6010B	1	05/12/2008 01:20	Choon Y Tian	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	05/09/2008 18:21	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	05/09/2008 18:21	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	05/14/2008 00:00	Ashley M Heckman	5

Lancaster Laboratories Sample No. WW5350506

Group No. 1089455

MW-16 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 05/02/2008 08:15 by GC

Account Number: 11255

Submitted: 05/03/2008 10:40

Chevron

Reported: 05/15/2008 at 18:13

6001 Bollinger Canyon Rd L4310

Discard: 06/15/2008

San Ramon CA 94583

QAW16

00230	Sulfide	SM20 4500 S2 D	1	05/06/2008 21:52	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	05/11/2008 18:41	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	05/08/2008 17:43	Patrick N Evans	1
06053	BTEX by 8260B	SW-846 8260B	1	05/07/2008 04:40	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	05/08/2008 17:43	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/07/2008 04:40	Michael A Ziegler	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/11/2008 08:15	Deborah A Krady	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	05/09/2008 11:00	Olivia Arosemena	1

Quality Control Summary

 Client Name: Chevron
 Reported: 05/15/08 at 06:13 PM

Group Number: 1089455

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>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: 081261848004	Sample number(s): 5350498							
Iron	N.D.	52.2	ug/l	100		90-112		
Manganese	N.D.	0.84	ug/l	101		90-110		
Batch number: 08127023001A	Sample number(s): 5350498-5350504,5350506							
Sulfide	N.D.	54.	ug/l	100		90-110		
Batch number: 081290022A	Sample number(s): 5350498-5350504,5350506							
Diesel Range Organics	N.D.	80.	ug/l	64	74	61-106	15	20
Heavy Range Organics	N.D.	100.	ug/l					
Batch number: 08129020202A	Sample number(s): 5350498-5350502							
Alkalinity to pH 4.5	N.D.	460.	ug/l as CaCO ₃	100		98-103		
Batch number: 081291848001	Sample number(s): 5350499-5350503							
Iron	N.D.	52.2	ug/l	98		90-112		
Manganese	N.D.	0.84	ug/l	103		90-110		
Batch number: 08129A51A	Sample number(s): 5350497-5350506							
TPH by NWTPH-Gx waters	N.D.	50.	ug/l	92	93	75-135	1	30
Batch number: 08130020201A	Sample number(s): 5350503-5350504,5350506							
Alkalinity to pH 4.5	N.D.	460.	ug/l as CaCO ₃	101		98-103		
Batch number: 081301848002	Sample number(s): 5350504,5350506							
Iron	N.D.	52.2	ug/l	99		90-112		
Manganese	N.D.	0.84	ug/l	103		90-110		
Batch number: 08134196101B	Sample number(s): 5350498-5350502							
Sulfate	N.D.	300.	ug/l	100		89-110		
Batch number: 08134196102B	Sample number(s): 5350503-5350504,5350506							
Sulfate	N.D.	300.	ug/l	96		89-110		
Batch number: Z081274AA	Sample number(s): 5350497-5350506							
Benzene	N.D.	0.5	ug/l	90		78-119		
Toluene	N.D.	0.5	ug/l	92		85-115		
Ethylbenzene	N.D.	0.5	ug/l	93		82-119		
Xylene (Total)	N.D.	0.5	ug/l	92		83-113		

Sample Matrix Quality Control

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron Group Number: 1089455
 Reported: 05/15/08 at 06:13 PM
 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Batch number: 081261848004	Sample number(s): 5350498 UNSPK: P350121 BKG: P350121								
Iron	-17 (2)	10 (2)	75-125	1	20	25,600.	25,200.	2	20
Manganese	97	96	75-125	1	20	156.	154.	1	20
Batch number: 08127023001A	Sample number(s): 5350498-5350504,5350506 UNSPK: P350039 BKG: P350039								
Sulfide	100	99	35-169	1	18	N.D.	N.D.	0 (1)	7
Batch number: 08129020202A	Sample number(s): 5350498-5350502 UNSPK: P346280 BKG: P346280								
Alkalinity to pH 8.3						N.D.	N.D.	0 (1)	4
Alkalinity to pH 4.5	97	98	64-130	0	2	288,000.	290,000.	1	4
Batch number: 081291848001	Sample number(s): 5350499-5350503 UNSPK: 5350501 BKG: 5350501								
Iron	98	103	75-125	1	20	2,820.	2,820.	0	20
Manganese	104 (2)	113 (2)	75-125	1	20	2,570.	2,600.	1	20
Batch number: 08129A51A	Sample number(s): 5350497-5350506 UNSPK: P349117								
TPH by NWTPH-Gx waters	85		63-154						
Batch number: 08130020201A	Sample number(s): 5350503-5350504,5350506 UNSPK: P351935 BKG: P351935								
Alkalinity to pH 8.3						N.D.	N.D.	0 (1)	4
Alkalinity to pH 4.5	98	98	64-130	0	2	156,000.	156,000.	0	4
Batch number: 081301848002	Sample number(s): 5350504,5350506 UNSPK: P351939 BKG: P351939								
Iron	99	99	75-125	1	20	N.D.	N.D.	0 (1)	20
Manganese	102	103	75-125	1	20	1.2	1.2	5 (1)	20
Batch number: 08134196101B	Sample number(s): 5350498-5350502 UNSPK: P353096 BKG: P353096								
Sulfate	106		90-110			71,400.	70,100.	2	20
Batch number: 08134196102B	Sample number(s): 5350503-5350504,5350506 UNSPK: 5350503 BKG: 5350503								
Sulfate	103		90-110			155,000.	152,000.	2	20
Batch number: Z081274AA	Sample number(s): 5350497-5350506 UNSPK: P349502								
Benzene	98	96	83-128	1	30				
Toluene	99	96	83-127	3	30				
Ethylbenzene	102	99	82-129	3	30				
Xylene (Total)	100	97	82-130	3	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: TPH by NWTPH-Dx(water) w/SiGel
 Batch number: 081290022A
 Orthoterphenyl

5350498	108
5350499	112
5350500	120
5350501	101

*- Outside of specification

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

Quality Control Summary

 Client Name: Chevron
 Reported: 05/15/08 at 06:13 PM

Group Number: 1089455

Surrogate Quality Control

5350502	95
5350503	83
5350504	101
5350506	96
Blank	98
LCS	123
LCSD	128

 Limits: 50-150

 Analysis Name: TPH by NWTPH-Gx waters
 Batch number: 08129A51A
 Trifluorotoluene-F

5350497	109
5350498	112
5350499	104
5350500	102
5350501	107
5350502	103
5350503	106
5350504	105
5350505	111
5350506	110
Blank	111
LCS	107
LCSD	100
MS	103

 Limits: 63-135

 Analysis Name: BTEX by 8260B
 Batch number: Z081274AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5350497	86	83	88	83
5350498	86	83	90	85
5350499	89	83	88	88
5350500	91	84	88	88
5350501	90	85	88	87
5350502	88	84	88	86
5350503	90	83	87	91
5350504	91	84	87	87
5350505	92	85	88	87
5350506	90	83	88	86
Blank	90	83	88	87
LCS	86	82	86	86
MS	85	83	87	87
MSD	86	84	87	87

 Limits: 80-116 77-113 80-113 78-113

*- Outside of specification

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

Chevron Northwest Region Analysis Request/Chain of Custody

222471



For Lancaster Laboratories use only
 Acct. #: 11255 Sample #: 5350497-506

SCR#:

Grp# 1089455

Facility #: 211577
 Site Address: 631 Queen Anne Ave N, Seattle, WA
 Chevron PM: Brett Hunter Lead Consultant: SAIC
 Consultant/Office: SAIC Bothell
 Consultant Prj. Mgr.: Peter Catterall
 Consultant Phone #: 425-482-3321 Fax #: 425-485-5566
 Sampler: G. Cisneros, S. Dunham, M. Gay
 Service Order #: _____ Non SAR: _____

Analyses Requested									
Preservation Codes									
Preservative Codes									
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Chevron Northwest Region Analysis Request/Chain of Custody



222470
 For Lancaster Laboratories use only
 Acct. #: 11255 Sample #: 5350497-506 SCR#: 58510
 Grp # 1089455

Facility #: 211577
 Site Address: 631 Queen Anne Ave N, Seattle, WA
 Chevron PM: Brett Hunter Lead Consultant: SAIC
 Consultant/Office: SAIC Bothell
 Consultant Prj. Mgr.: Peter Catterall
 Consultant Phone #: 425-482-3321 Fax #: 425-485-5566
 Sampler: G Cisneros, M. Gay, S. Durham
 Service Order #: _____ Non SAR: _____

Analyses Requested

Matrix		Preservation Codes																								
Soil	Water	Potable	NPDES	Oil	Air	Total Number of Containers	BTEX-MTBE	8021	8260	Naphth	8260 full scan	Oxygenates	NWTPH G	MWTPH D	Extended Rng.	Silica Gel Cleanup	Lead Total	Diss.	Method	VPH/EPH	NWTPH H ClD	quantification	Alkalinity, Alkalinity	Iron, Manganese	Sulfate	Sulfide
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										

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

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

8021 MTBE Confirmation
 Confirm MTBE + Naphthalene
 Confirm highest hit by 8260
 Confirm all hits by 8260
 Run ___ oxy s on highest hit
 Run ___ oxy s on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX-MTBE	8021	8260	Naphth	8260 full scan	Oxygenates	NWTPH G	MWTPH D	Extended Rng.	Silica Gel Cleanup	Lead Total	Diss.	Method	VPH/EPH	NWTPH H ClD	quantification	Alkalinity, Alkalinity	Iron, Manganese	Sulfate	Sulfide
<u>TB-5-1909J</u>	<u>05/02/00</u>	<u>0800</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>2</u>	<input checked="" type="checkbox"/>																			
<u>MW-16</u>	<u>05/02/00</u>	<u>0815</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>12</u>	<input checked="" type="checkbox"/>								<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<p><i>Alleged by 05/02/00</i></p>																													

Comments / Remarks

Turnaround Time Requested (TAT) (please circle)

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

Data Package Options (please circle if required)

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

Relinquished by: <u>[Signature]</u>	Date: <u>05/02/00</u>	Time: <u>13:00</u>	Received by:	Date:	Time:
Relinquished by: <u>[Signature]</u>	Date: <u>5/2/00</u>	Time: <u>1530</u>	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by Commercial Carrier:	UPS <u>FedEx</u> Other _____		Received by: <u>Kate Nantone</u>	Date: <u>5/3/00</u>	Time: <u>10:40</u>
Temperature Upon Receipt: <u>3.4 c°</u>			Custody Seals Intact? <u>Yes</u> No		

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.

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

May 02, 2008

Peter Catterall
SAIC - Bothell
18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

RE: Chevron #21-1577

Enclosed are the results of analyses for samples received by the laboratory on 04/30/08 17:15.
The following list is a summary of the Work Orders contained in this report, generated on 05/02/08
15:35.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BRD0459	Chevron #21-1577	211577

TestAmerica Seattle



Sandra Yakamavich, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



SAIC - Bothell

18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

05/02/08 15:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-30	BRD0459-01	Water	04/30/08 13:00	04/30/08 17:15
MW-34	BRD0459-02	Water	04/30/08 14:55	04/30/08 17:15

TestAmerica Seattle



Sandra Yakamavich, Project Manager

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SAIC - Bothell

18912 North Creek Parkway South, Suite 101
 Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

05/02/08 15:35

Conventional Chemistry Parameters by APHA/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRD0459-01 (MW-30)		Water				Sampled: 04/30/08 13:00				
Ferrous Iron	SM 3500-Fe B	ND	----	0.250	mg/l	1x	8E01032	05/01/08 13:23	05/01/08 13:24	HTI
BRD0459-02 (MW-34)		Water				Sampled: 04/30/08 14:55				
Ferrous Iron	SM 3500-Fe B	ND	----	0.250	mg/l	1x	8E01032	05/01/08 13:23	05/01/08 13:24	HTI

TestAmerica Seattle

Sandra Yakamavich

Sandra Yakamavich, Project Manager

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SAIC - Bothell

18912 North Creek Parkway South, Suite 101
 Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

05/02/08 15:35

Anions by EPA Method 300.0

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRD0459-01 (MW-30)		Water			Sampled: 04/30/08 13:00					
Nitrate-Nitrogen	EPA 300.0	4.91	----	0.200	mg/l as N	1x	8E01012	05/01/08 08:56	05/01/08 09:12	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	
BRD0459-02 (MW-34)		Water			Sampled: 04/30/08 14:55					
Nitrate-Nitrogen	EPA 300.0	11.4	----	0.400	mg/l as N	2x	8E01012	05/01/08 08:56	05/01/08 10:45	
Nitrite-Nitrogen	"	ND	----	0.200	"	1x	"	"	05/01/08 09:27	

TestAmerica Seattle

Sandra Yakamavich

Sandra Yakamavich, Project Manager

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SAIC - Bothell 18912 North Creek Parkway South, Suite 101 Bothell, WA/USA 98011	Project Name: Chevron #21-1577 Project Number: 211577 Project Manager: Peter Catterall	Report Created: 05/02/08 15:35
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Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E01032 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8E01032-BLK1)										Extracted: 05/01/08 13:23				
Ferrous Iron	SM 3500-Fe B	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	05/01/08 13:24	
LCS (8E01032-BS1)										Extracted: 05/01/08 13:23				
Ferrous Iron	SM 3500-Fe B	0.809	---	0.250	mg/l	1x	--	0.800	101%	(90-110)	--	--	05/01/08 13:24	
Duplicate (8E01032-DUP1)										QC Source: BRD0459-01 Extracted: 05/01/08 13:23				
Ferrous Iron	SM 3500-Fe B	ND	---	0.250	mg/l	1x	ND	--	--	--	NR (25)		05/01/08 13:24	
Matrix Spike (8E01032-MS1)										QC Source: BRD0459-01 Extracted: 05/01/08 13:23				
Ferrous Iron	SM 3500-Fe B	0.859	---	0.250	mg/l	1x	ND	0.800	107%	(50-150)	--	--	05/01/08 13:24	

TestAmerica Seattle

Sandra Yakamavich

Sandra Yakamavich, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



SAIC - Bothell 18912 North Creek Parkway South, Suite 101 Bothell, WA/USA 98011	Project Name: Chevron #21-1577 Project Number: 211577 Project Manager: Peter Catterall	Report Created: 05/02/08 15:35
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Anions by EPA Method 300.0 - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E01012 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8E01012-BLK1)								Extracted: 05/01/08 08:56						
Nitrite-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	--	--	--	--	--	--	05/01/08 10:14	
Nitrate-Nitrogen	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
LCS (8E01012-BS1)								Extracted: 05/01/08 08:56						
Nitrite-Nitrogen	EPA 300.0	0.930	---	0.200	mg/l as N	1x	--	1.00	93.0%	(90-110)	--	--	05/01/08 10:30	
Nitrate-Nitrogen	"	0.960	---	0.200	"	"	--	"	96.0%	"	--	--	"	
Duplicate (8E01012-DUP1)				QC Source: BRD0459-02				Extracted: 05/01/08 08:56						
Nitrite-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	ND	--	--	--	NR (25)	--	05/01/08 09:43	
Nitrate-Nitrogen	"	11.3	---	0.400	"	2x	11.4	--	--	--	0.528%	"	05/01/08 11:01	
Matrix Spike (8E01012-MS1)				QC Source: BRD0459-02				Extracted: 05/01/08 08:56						
Nitrite-Nitrogen	EPA 300.0	1.14	---	0.200	mg/l as N	1x	ND	1.00	114%	(69-137)	--	--	05/01/08 09:59	
Nitrate-Nitrogen	"	12.4	---	0.400	"	2x	11.4	"	102%	(59-126)	--	--	05/01/08 11:17	

TestAmerica Seattle

Sandra Yakamavich

Sandra Yakamavich, Project Manager

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SAIC - Bothell

18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

05/02/08 15:35

Notes and Definitions

Report Specific Notes:

HTI - The holding time for this test is immediate. The laboratory measurement, therefore, may not be suitable for compliance purposes.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Sandra Yakamavich, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
 11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BRD0459**

CLIENT: SAIC/Chevron		INVOICE TO: Chevron		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.							
REPORT TO: SAIC/Peter Catterall ADDRESS: 18912 North Creek Pkwy, Suite 101 Bothell, WA 98011		P.O. NUMBER:									
PHONE: 425-485-5800 FAX: 425-485-5566		PRESERVATIVE									
PROJECT NAME: Chevron 211577		PROJECT NUMBER:		REQUESTED ANALYSES							
SAMPLED BY: M. Gay, J. Wartes											
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Nitrate	Nitrite	Ferrous Iron				MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 MW-30	04/30/08/1300	X	X	X							-01
2 MW-34	04/30/08/1455	X	X	X							-02
3											
4											
5											
6											
7											
8											
9											
10											
RELEASED BY: Megan Gay		DATE: 04/30/08		RECEIVED BY: [Signature]		DATE: 4/30/08					
PRINT NAME: MEGAN GAY		FIRM: SAIC		TIME: 1715		PRINT NAME: Francisco Lung, Jr.		FIRM: TA-SEA		TIME: 1715	
RELEASED BY:		DATE:		RECEIVED BY:		DATE:					
PRINT NAME:		FIRM:		PRINT NAME:		FIRM:					
ADDITIONAL REMARKS:								TEMP: w/o 8.1°C		PAGE OF	

May 06, 2008

Peter Catterall
SAIC - Bothell
18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

RE: Chevron #21-1577

Enclosed are the results of analyses for samples received by the laboratory on 05/01/08 17:00.
The following list is a summary of the Work Orders contained in this report, generated on 05/06/08
14:03.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BRE0017	Chevron #21-1577	211577

TestAmerica Seattle



Curtis D. Armstrong For Sandra Yakamavich, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



SAIC - Bothell

18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

05/06/08 14:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-35	BRE0017-01	Water	05/01/08 08:30	05/01/08 17:00
MW-26	BRE0017-02	Water	05/01/08 09:45	05/01/08 17:00
DUP-7-050108	BRE0017-03	Water	05/01/08 17:00	05/01/08 17:00
MW-17	BRE0017-04	Water	05/01/08 11:00	05/01/08 17:00
MW-21	BRE0017-05	Water	05/01/08 11:45	05/01/08 17:00
MW-6	BRE0017-06	Water	05/01/08 13:40	05/01/08 17:00
MW-10	BRE0017-07	Water	05/01/08 14:45	05/01/08 17:00

TestAmerica Seattle



Curtis D. Armstrong For Sandra Yakamavich, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



SAIC - Bothell

18912 North Creek Parkway South, Suite 101
 Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

05/06/08 14:03

Conventional Chemistry Parameters by APHA/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0017-01 (MW-35)		Water			Sampled: 05/01/08 08:30					
Ferrous Iron	SM 3500-Fe B	0.636	----	0.250	mg/l	1x	8E05041	05/05/08 13:00	05/05/08 13:27	HTI
BRE0017-02 (MW-26)		Water			Sampled: 05/01/08 09:45					
Ferrous Iron	SM 3500-Fe B	0.373	----	0.250	mg/l	1x	8E05041	05/05/08 13:00	05/05/08 13:27	HTI
BRE0017-03 (DUP-7-050108)		Water			Sampled: 05/01/08 17:00					
Ferrous Iron	SM 3500-Fe B	0.817	----	0.250	mg/l	1x	8E05041	05/05/08 13:00	05/05/08 13:27	HTI
BRE0017-04 (MW-17)		Water			Sampled: 05/01/08 11:00					
Ferrous Iron	SM 3500-Fe B	ND	----	0.250	mg/l	1x	8E05041	05/05/08 13:00	05/05/08 13:27	HTI
BRE0017-05 (MW-21)		Water			Sampled: 05/01/08 11:45					
Ferrous Iron	SM 3500-Fe B	2.13	----	0.500	mg/l	2x	8E05041	05/05/08 13:00	05/05/08 13:27	HTI
BRE0017-06 (MW-6)		Water			Sampled: 05/01/08 13:40					
Ferrous Iron	SM 3500-Fe B	17.3	----	2.50	mg/l	10x	8E05041	05/05/08 13:00	05/05/08 13:27	HTI
BRE0017-07 (MW-10)		Water			Sampled: 05/01/08 14:45					
Ferrous Iron	SM 3500-Fe B	1.59	----	0.250	mg/l	1x	8E05041	05/05/08 13:00	05/05/08 13:27	HTI

TestAmerica Seattle



Curtis D. Armstrong For Sandra Yakamavich, Project Manager

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SAIC - Bothell

18912 North Creek Parkway South, Suite 101
 Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

05/06/08 14:03

Anions by EPA Method 300.0

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0017-01 (MW-35)		Water		Sampled: 05/01/08 08:30						
Nitrate-Nitrogen	EPA 300.0	ND	----	0.200	mg/l as N	1x	8E05026	05/01/08 17:30	05/01/08 18:32	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	
BRE0017-02 (MW-26)		Water		Sampled: 05/01/08 09:45						
Nitrate-Nitrogen	EPA 300.0	ND	----	0.200	mg/l as N	1x	8E05026	05/01/08 17:30	05/01/08 18:48	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	
BRE0017-03 (DUP-7-050108)		Water		Sampled: 05/01/08 17:00						
Nitrate-Nitrogen	EPA 300.0	ND	----	0.200	mg/l as N	1x	8E05026	05/01/08 17:30	05/01/08 19:04	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	
BRE0017-04 (MW-17)		Water		Sampled: 05/01/08 11:00						
Nitrate-Nitrogen	EPA 300.0	ND	----	0.200	mg/l as N	1x	8E05026	05/01/08 17:30	05/01/08 19:19	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	
BRE0017-05 (MW-21)		Water		Sampled: 05/01/08 11:45						
Nitrate-Nitrogen	EPA 300.0	ND	----	0.200	mg/l as N	1x	8E05026	05/01/08 17:30	05/01/08 19:35	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	
BRE0017-06 (MW-6)		Water		Sampled: 05/01/08 13:40						
Nitrate-Nitrogen	EPA 300.0	0.560	----	0.200	mg/l as N	1x	8E05026	05/01/08 17:30	05/01/08 19:51	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	
BRE0017-07 (MW-10)		Water		Sampled: 05/01/08 14:45						
Nitrate-Nitrogen	EPA 300.0	0.320	----	0.200	mg/l as N	1x	8E05026	05/01/08 17:30	05/01/08 20:06	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	

TestAmerica Seattle



Curtis D. Armstrong For Sandra Yakamavich, Project Manager

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SAIC - Bothell 18912 North Creek Parkway South, Suite 101 Bothell, WA/USA 98011	Project Name: Chevron #21-1577 Project Number: 211577 Project Manager: Peter Catterall	Report Created: 05/06/08 14:03
--	---	-----------------------------------

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E05041 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8E05041-BLK1)										Extracted: 05/05/08 13:00				
Ferrous Iron	SM 3500-Fe B	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	05/05/08 13:27	
LCS (8E05041-BS1)										Extracted: 05/05/08 13:00				
Ferrous Iron	SM 3500-Fe B	0.776	---	0.250	mg/l	1x	--	0.800	97.0%	(90-110)	--	--	05/05/08 13:27	
Duplicate (8E05041-DUP1)										QC Source: BRE0017-01		Extracted: 05/05/08 13:00		
Ferrous Iron	SM 3500-Fe B	0.636	---	0.250	mg/l	1x	0.636	--	--	--	0.00% (25)	--	05/05/08 13:27	
Matrix Spike (8E05041-MS1)										QC Source: BRE0017-01		Extracted: 05/05/08 13:00		
Ferrous Iron	SM 3500-Fe B	1.49	---	0.250	mg/l	1x	0.636	0.800	107%	(50-150)	--	--	05/05/08 13:27	

TestAmerica Seattle



Curtis D. Armstrong For Sandra Yakamavich, Project Manager

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SAIC - Bothell 18912 North Creek Parkway South, Suite 101 Bothell, WA/USA 98011	Project Name: Chevron #21-1577 Project Number: 211577 Project Manager: Peter Catterall	Report Created: 05/06/08 14:03
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Anions by EPA Method 300.0 - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E05026 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8E05026-BLK1)								Extracted: 05/01/08 17:30						
Nitrite-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	--	--	--	--	--	--	05/01/08 18:01	
Nitrate-Nitrogen	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
LCS (8E05026-BS1)								Extracted: 05/01/08 17:30						
Nitrite-Nitrogen	EPA 300.0	0.960	---	0.200	mg/l as N	1x	--	1.00	96.0%	(90-110)	--	--	05/01/08 18:17	
Nitrate-Nitrogen	"	0.990	---	0.200	"	"	--	"	99.0%	"	--	--	"	
Duplicate (8E05026-DUP1)								QC Source: BRE0017-01			Extracted: 05/01/08 17:30			
Nitrite-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	ND	--	--	--	NR (25)		05/01/08 21:09	
Nitrate-Nitrogen	"	ND	---	0.200	"	"	ND	--	--	--	NR "		"	
Matrix Spike (8E05026-MS1)								QC Source: BRE0017-01			Extracted: 05/01/08 17:30			
Nitrite-Nitrogen	EPA 300.0	1.18	---	0.200	mg/l as N	1x	ND	1.00	118%	(69-137)	--	--	05/01/08 20:53	
Nitrate-Nitrogen	"	0.970	---	0.200	"	"	ND	"	97.0%	(59-126)	--	--	"	

TestAmerica Seattle



Curtis D. Armstrong For Sandra Yakamavich, Project Manager

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SAIC - Bothell

18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**
Project Number: 211577
Project Manager: Peter Catterall

Report Created:
05/06/08 14:03

Notes and Definitions

Report Specific Notes:

HTI - The holding time for this test is immediate. The laboratory measurement, therefore, may not be suitable for compliance purposes.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Sandra Yakamavich, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **PRE0017**

CLIENT: Chevron / SAIC		INVOICE TO: Chevron		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.							
REPORT TO: Enverro Peter Catterall / SAIC		P.O. NUMBER:									
ADDRESS: 18912 North Creek Parkway, Ste 101 Bothell, WA 98011											
PHONE: 425-485-3381 FAX: 425-485-5566											
PROJECT NAME: Chevron 211577		PRESERVATIVE									
PROJECT NUMBER:											
SAMPLED BY: M. Gay, S. Dunham, G. Cisneros		REQUESTED ANALYSES									
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Nitrate	Nitrite	Ferric Iron				MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 MW-35	05/01/08 / 0830	X	X	X				SW	2		01
2 MW-26	05/01/08 / 0945	X	X	X				SW	2		02
3 DUP-7-050108	05/01/08	X	X	X				W	2		03
4 MW-17	05/01/08 / 1100	X	X	X				W	2		04
5 MW-21	05/01/08 / 1145	X	X	X				W	2		05
6 MW-6	05/01/08 1340	X	X	X				W	2		06
7 MW-10	05/01/08 / 1445	X	X	X				W	2		07
8											
9											
10											
RELEASED BY: Megan Gay	FIRM: SAIC	DATE: 05/01/08	TIME: 1700	RECEIVED BY: Doreen	FIRM: TA-SEA	DATE: 5/1/08	TIME: 1700				
PRINT NAME: Megan Gay		DATE:	TIME:	PRINT NAME:		DATE:	TIME:				
ADDITIONAL REMARKS:											

TEMP: **0.9°C** w/o
 PAGE **1** OF **1**

May 05, 2008

Peter Catterall
SAIC - Bothell
18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

RE: Chevron #21-1577

Enclosed are the results of analyses for samples received by the laboratory on 05/02/08 12:55.
The following list is a summary of the Work Orders contained in this report, generated on 05/05/08
16:35.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BRE0031	Chevron #21-1577	211577

TestAmerica Seattle



Curtis D. Armstrong For Sandra Yakamavich, Project Manager

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SAIC - Bothell

18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

05/05/08 16:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-16	BRE0031-01	Water	05/02/08 08:15	05/02/08 12:55

TestAmerica Seattle



Curtis D. Armstrong For Sandra Yakamavich, Project Manager

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SAIC - Bothell 18912 North Creek Parkway South, Suite 101 Bothell, WA/USA 98011	Project Name: Chevron #21-1577 Project Number: 211577 Project Manager: Peter Catterall	Report Created: 05/05/08 16:35
--	---	-----------------------------------

Conventional Chemistry Parameters by APHA/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRE0031-01 (MW-16)		Water			Sampled: 05/02/08 08:15					
Ferrous Iron	SM 3500-Fe B	ND	----	0.250	mg/l	1x	8E05041	05/05/08 13:00	05/05/08 13:27	HTI

TestAmerica Seattle



Curtis D. Armstrong For Sandra Yakamavich, Project Manager

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SAIC - Bothell 18912 North Creek Parkway South, Suite 101 Bothell, WA/USA 98011	Project Name: Chevron #21-1577 Project Number: 211577 Project Manager: Peter Catterall	Report Created: 05/05/08 16:35
--	---	-----------------------------------

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E05041 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8E05041-BLK1)										Extracted: 05/05/08 13:00				
Ferrous Iron	SM 3500-Fe B	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	05/05/08 13:27	
LCS (8E05041-BS1)										Extracted: 05/05/08 13:00				
Ferrous Iron	SM 3500-Fe B	0.776	---	0.250	mg/l	1x	--	0.800	97.0%	(90-110)	--	--	05/05/08 13:27	
Duplicate (8E05041-DUP1)										QC Source: BRE0017-01 Extracted: 05/05/08 13:00				
Ferrous Iron	SM 3500-Fe B	0.636	---	0.250	mg/l	1x	0.636	--	--	--	0.00% (25)	--	05/05/08 13:27	
Matrix Spike (8E05041-MS1)										QC Source: BRE0017-01 Extracted: 05/05/08 13:00				
Ferrous Iron	SM 3500-Fe B	1.49	---	0.250	mg/l	1x	0.636	0.800	107%	(50-150)	--	--	05/05/08 13:27	

TestAmerica Seattle



Curtis D. Armstrong For Sandra Yakamavich, Project Manager

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SAIC - Bothell 18912 North Creek Parkway South, Suite 101 Bothell, WA/USA 98011	Project Name: Chevron #21-1577 Project Number: 211577 Project Manager: Peter Catterall	Report Created: 05/05/08 16:35
--	---	-----------------------------------

Anions by EPA Method 300.0 - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8E05027 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8E05027-BLK1)								Extracted: 05/02/08 13:33						
Nitrite-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	--	--	--	--	--	--	05/02/08 14:04	
Nitrate-Nitrogen	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
LCS (8E05027-BS1)								Extracted: 05/02/08 13:33						
Nitrite-Nitrogen	EPA 300.0	0.940	---	0.200	mg/l as N	1x	--	1.00	94.0%	(90-110)	--	--	05/02/08 14:20	
Nitrate-Nitrogen	"	0.950	---	0.200	"	"	--	"	95.0%	"	--	--	"	
Duplicate (8E05027-DUP1)				QC Source: BRE0031-01				Extracted: 05/02/08 13:33						
Nitrite-Nitrogen	EPA 300.0	0.620	---	0.200	mg/l as N	1x	0.600	--	--	--	3.28%	(25)	05/02/08 15:07	
Nitrate-Nitrogen	"	1.59	---	0.200	"	"	1.63	--	--	--	2.48%	"	"	
Matrix Spike (8E05027-MS1)				QC Source: BRE0031-01				Extracted: 05/02/08 13:33						
Nitrite-Nitrogen	EPA 300.0	1.59	---	0.200	mg/l as N	1x	0.600	1.00	99.0%	(69-137)	--	--	05/02/08 14:51	
Nitrate-Nitrogen	"	2.46	---	0.200	"	"	1.63	"	83.0%	(59-126)	--	--	"	

TestAmerica Seattle



Curtis D. Armstrong For Sandra Yakamavich, Project Manager

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SAIC - Bothell

18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

05/05/08 16:35

Notes and Definitions

Report Specific Notes:

HTI - The holding time for this test is immediate. The laboratory measurement, therefore, may not be suitable for compliance purposes.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Sandra Yakamavich, Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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 11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **3RE0031**

CLIENT: Chevron / SAIC		INVOICE TO: Chevron		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.							
REPORT TO: Peter Catterall		P.O. NUMBER:									
ADDRESS: 18912 North Creek Pkwy, Ste 101 Bothell, WA 98011											
PHONE: 425-482-3321 FAX: 425-485-5566											
PROJECT NAME:		PRESERVATIVE									
PROJECT NUMBER:											
SAMPLED BY:		REQUESTED ANALYSES									
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Nitrate	Nitrite	Ferrous Iron				MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 MW-16	05/02/08/0815	X	X	X				W	2		01
2											
3											
4											
5											
6											
7											
8											
9											
10											
RELEASED BY: Megan Gay		DATE: 05/02/08		RECEIVED BY: Burch		DATE: 5/2/08					
PRINT NAME: Megan Gay		FIRM: SAIC		TIME: 1255		PRINT NAME: Burch		FIRM: TA-SEA		TIME: 1255	
RELEASED BY:		DATE:		RECEIVED BY:		DATE:					
PRINT NAME:		FIRM:		TIME:		PRINT NAME:		FIRM:		TIME:	
ADDITIONAL REMARKS:										TEMP:	PAGE OF
										1.200	2/0

Attachment E:
Laboratory Reports and Chain of Custody Forms November 2008

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 17605-2425SAMPLE GROUP

The sample group for this submittal is 1118504. Samples arrived at the laboratory on Wednesday, November 05, 2008. The PO# for this group is 0015024861 and the release number is SKANCE.

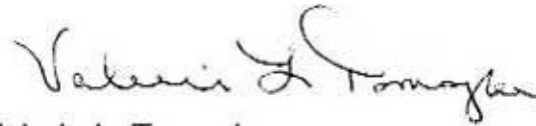
Client DescriptionQA-2-110308 Water Sample
DPE-5 Grab Water SampleLancaster Labs Number5519036
5519037ELECTRONIC SAIC
COPY TO
ELECTRONIC SAIC
COPY TO

Attn: Tina King

Attn: Peter Catterall

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300

Respectfully Submitted,



Valerie L. Tomayko
Group Leader



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

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Lancaster Laboratories Sample No. WW5519036

Group No. 1118504

QA-2-110308 Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 11/03/2008 08:10

Account Number: 11255

Submitted: 11/05/2008 09:30

Chevron

Reported: 11/17/2008 at 15:33

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2008

San Ramon CA 94583

QAATB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50	ug/l	1
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/08/2008 01:58	Tyler O Griffin	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	11/13/2008 03:14	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/08/2008 01:58	Tyler O Griffin	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/13/2008 03:14	Michael A Ziegler	1



Analysis Report

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Lancaster Laboratories Sample No. **WW5519037**

Group No. **1118504**

DPE-5 Grab Water Sample

Facility# **211577**

631 Queen Anne Ave N - Seattle, WA

Collected: 11/03/2008 15:55 by TK

Account Number: 11255

Submitted: 11/05/2008 09:30

Chevron

Reported: 11/17/2008 at 15:33

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2008

San Ramon CA 94583

QAA05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	12,000	1,500	ug/l	50
02096	Heavy Range Organics	n.a.	N.D.	3,500	ug/l	50
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	460	50	ug/l	1
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	77	0.5	ug/l	1
05407	Toluene	108-88-3	7	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	4	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	17	0.5	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
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/15/2008 16:14	Heather E Williams	50
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/08/2008 07:46	Kathie J Bowman	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	11/13/2008 03:37	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/08/2008 07:46	Kathie J Bowman	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/13/2008 03:37	Michael A Ziegler	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/13/2008 02:00	Sherry L Morrow	1

Quality Control Summary

 Client Name: Chevron
 Reported: 11/17/08 at 03:33 PM

Group Number: 1118504

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>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: 08312D20A TPH by NWTPH-Gx waters	Sample number(s): 5519036-5519037							
	N.D.	50.	ug/l	100	100	75-135	0	30
Batch number: 083170015A Diesel Range Organics Heavy Range Organics	Sample number(s): 5519037							
	N.D.	30.	ug/l	69	71	61-106	4	20
	N.D.	70.	ug/l					
Batch number: D083173AA Methyl Tertiary Butyl Ether Benzene Toluene Ethylbenzene Xylene (Total)	Sample number(s): 5519036-5519037							
	N.D.	0.5	ug/l	98		73-119		
	N.D.	0.5	ug/l	89		78-119		
	N.D.	0.5	ug/l	93		85-115		
	N.D.	0.5	ug/l	92		82-119		
	N.D.	0.5	ug/l	97		83-113		

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: 08312D20A TPH by NWTPH-Gx waters	Sample number(s): 5519036-5519037 UNSPK: P518704								
	100		63-154						
Batch number: D083173AA Methyl Tertiary Butyl Ether Benzene Toluene Ethylbenzene Xylene (Total)	Sample number(s): 5519036-5519037 UNSPK: P520456								
	100	100	69-127	0	30				
	95	95	83-128	0	30				
	99	96	83-127	3	30				
	98	98	82-129	1	30				
	102	101	82-130	1	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: TPH by NWTPH-Gx waters
 Batch number: 08312D20A
 Trifluorotoluene-F

5519036 82

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 11/17/08 at 03:33 PM

Group Number: 1118504

Surrogate Quality Control

5519037 94
Blank 81
LCS 104
LCSD 103
MS 100

Limits: 63-135

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel
Batch number: 083170015A
Orthoterphenyl

5519037 0*
Blank 96
LCS 98
LCSD 98

Limits: 50-150

Analysis Name: BTEX+MTBE by 8260B
Batch number: D083173AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5519036	100	103	85	90
5519037	97	104	88	100
Blank	95	100	87	90
LCS	95	99	89	103
MS	96	101	88	103
MSD	95	99	89	102

Limits: 80-116 77-113 80-113 78-113

*- Outside of specification

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

Chevron Northwest Region Analysis Request/Chain of Custody



Acct. #: 11255

For Lancaster Laboratories use only

Sample #: 5519036-37

223587

SCR#: _____

WBS # NWRTB-211577-0-OML

C# 1118504

Facility #: <u>21-1577</u> Site Address: <u>631 Queen Anne Ave N Seattle, WA</u> Chevron PM: <u>O. Skance</u> Lead Consultant: <u>SAIC</u> Consultant/Office: <u>Bothell, WA</u> Consultant Prj. Mgr.: <u>P. Catterall</u> Consultant Phone #: <u>425-482-3321</u> Fax #: <u>425-485-5500</u> Sampler: <u>T King / H Lee / S Dunham</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____			Matrix <input type="checkbox"/> Potable Water <input type="checkbox"/> NPDES <input type="checkbox"/> Oil <input type="checkbox"/> Air		Analyses Requested Preservation Codes H <input type="checkbox"/> BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan Oxygenates <u>NW</u> TPH G <input type="checkbox"/> <input type="checkbox"/> <u>NW</u> TPH D <input checked="" type="checkbox"/> Extended Ring. <input checked="" type="checkbox"/> Silica Gel Cleanup Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method VPHEPH NWTPH H CID <input type="checkbox"/> quantification										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input type="checkbox"/> Run ___ oxy s on all hits								
Sample Identification		Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8021	8260 full scan	Oxygenates	<u>NW</u> TPH G	<u>NW</u> TPH D	Lead Total	Diss.	Method	VPHEPH	NWTPH H CID	quantification	Comments / Remarks	
<u>DPE-5</u>		<u>11/3/08</u>	<u>1555</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>6</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<u>QA-2-110308</u>		<u>11/3/08</u>	<u>0810</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>8</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<u>DPE-5</u>		<u>11/3/08</u>	<u>1555</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>8</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<p><u>11/15/08</u> <u>SAIC</u></p>																							
Turnaround Time Requested (TAT) (please circle) STD. TAT <u>24</u> hour 72 hour 48 hour 4 day 5 day										Relinquished by: <u>Ch L</u> Date: <u>11/4/08</u> Time: <u>1030</u>			Received by: _____ Date: _____ Time: _____										
Data Package Options (please circle if required) QC Summary Type I - Full Type VI (Raw Data) Disk / EDD WIP (RWQCB) Standard Format Disk _____ Other.										Relinquished by: _____ Date: _____ Time: _____			Received by: _____ Date: _____ Time: _____										
Relinquished by Commercial Carrier: UPS <u>FedEx</u> Other _____										Received by: <u>SAIC</u> Date: <u>11/15/08</u> Time: <u>0930</u>			Temperature Upon Receipt <u>4.0</u> C° Custody Seals Intact? <input checked="" type="checkbox"/> Yes No										

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 1118727. Samples arrived at the laboratory on Thursday, November 06, 2008. The PO# for this group is 0015024861 and the release number is SKANCE.

Client Description**Lancaster Labs Number**

QA-1-110408 Water Sample	5520249
DPE-2 Grab Water Sample	5520250
RW-2 Grab Water Sample	5520251
MW-5 Grab Water Sample	5520252
DPE-6 Grab Water Sample	5520253
MW-14 Grab Water Sample	5520254
MW-25 Grab Water Sample	5520255
MW-32 Grab Water Sample	5520257
MW-33 Grab Water Sample	5520258

ELECTRONIC SAIC
COPY TO
ELECTRONIC SAIC
COPY TO

Attn: Tina King

Attn: Peter Catterall

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300

Respectfully Submitted,



Marla S. Lord
Senior Specialist



Analysis Report

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Lancaster Laboratories Sample No. WW5520249

Group No. 1118727

QA-1-110408 Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 11/04/2008 08:00

Account Number: 11255

Submitted: 11/06/2008 09:00

Chevron

Reported: 11/18/2008 at 14:55

6001 Bollinger Canyon Rd L4310

Discard: 12/19/2008

San Ramon CA 94583

631QA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/12/2008 01:08	Tyler O Griffin	1
06053	BTEX by 8260B	SW-846 8260B	1	11/13/2008 17:09	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/12/2008 01:08	Tyler O Griffin	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/13/2008 17:09	Ginelle L Feister	1



Analysis Report

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Lancaster Laboratories Sample No. WW5520250

Group No. 1118727

DPE-2 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 11/04/2008 11:15 by TK

Account Number: 11255

Submitted: 11/06/2008 09:00

Chevron

Reported: 11/18/2008 at 14:55

6001 Bollinger Canyon Rd L4310

Discard: 12/19/2008

San Ramon CA 94583

631D2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	3,000	57	ug/l	2
02096	Heavy Range Organics	n.a.	N.D.	130	ug/l	2
08273	TPH by NWTTPH-Gx waters					
01645	TPH by NWTTPH-Gx waters	n.a.	340	50	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTTPH-Dx(water) w/SiGel	ECY 97-602 NWTTPH-Dx modified	1	11/15/2008 12:29	Heather E Williams	2
08273	TPH by NWTTPH-Gx waters	ECY 97-602 NWTTPH-Gx modified	1	11/12/2008 02:35	Tyler O Griffin	1
06053	BTEX by 8260B	SW-846 8260B	1	11/13/2008 17:32	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/12/2008 02:35	Tyler O Griffin	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/13/2008 17:32	Ginelle L Feister	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTTPH-Dx 06/97	1	11/14/2008 03:00	Roman Kuropatkin	1



Analysis Report

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Lancaster Laboratories Sample No. WW5520251

Group No. 1118727

RW-2 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 11/04/2008 10:05 by TK

Account Number: 11255

Submitted: 11/06/2008 09:00

Chevron

Reported: 11/18/2008 at 14:55

6001 Bollinger Canyon Rd L4310

Discard: 12/19/2008

San Ramon CA 94583

631R2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	1,000	28	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	66	ug/l	1
08273	TPH by NWTTPH-Gx waters					
01645	TPH by NWTTPH-Gx waters	n.a.	890	50	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	82	0.5	ug/l	1
05407	Toluene	108-88-3	9	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	14	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	6	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTTPH-Dx(water) w/SiGel	ECY 97-602 NWTTPH-Dx modified	1	11/14/2008 16:13	Heather E Williams	1
08273	TPH by NWTTPH-Gx waters	ECY 97-602 NWTTPH-Gx modified	1	11/12/2008 02:56	Tyler O Griffin	1
06053	BTEX by 8260B	SW-846 8260B	1	11/13/2008 17:56	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/12/2008 02:56	Tyler O Griffin	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/13/2008 17:56	Ginelle L Feister	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTTPH-Dx 06/97	1	11/14/2008 03:00	Roman Kuropatkin	1



Analysis Report

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Lancaster Laboratories Sample No. WW5520252

Group No. 1118727

MW-5 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 11/04/2008 12:05 by TK

Account Number: 11255

Submitted: 11/06/2008 09:00

Chevron

Reported: 11/18/2008 at 14:55

6001 Bollinger Canyon Rd L4310

Discard: 12/19/2008

San Ramon CA 94583

631M5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	160	28	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	66	ug/l	1
08273	TPH by NWTTPH-Gx waters					
01645	TPH by NWTTPH-Gx waters	n.a.	110	50	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	0.8	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTTPH-Dx(water) w/SiGel	ECY 97-602 NWTTPH-Dx modified	1	11/14/2008 16:36	Heather E Williams	1
08273	TPH by NWTTPH-Gx waters	ECY 97-602 NWTTPH-Gx modified	1	11/12/2008 03:18	Tyler O Griffin	1
06053	BTEX by 8260B	SW-846 8260B	1	11/13/2008 18:20	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/12/2008 03:18	Tyler O Griffin	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/13/2008 18:20	Ginelle L Feister	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTTPH-Dx 06/97	1	11/14/2008 03:00	Roman Kuropatkin	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW5520253

Group No. 1118727

DPE-6 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 11/04/2008 08:40 by TK

Account Number: 11255

Submitted: 11/06/2008 09:00

Chevron

Reported: 11/18/2008 at 14:55

6001 Bollinger Canyon Rd L4310

Discard: 12/19/2008

San Ramon CA 94583

631D6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	11,000	570	ug/l	20
02096	Heavy Range Organics	n.a.	N.D.	1,300	ug/l	20
08273	TPH by NWTTPH-Gx waters					
01645	TPH by NWTTPH-Gx waters	n.a.	870	50	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	16	0.5	ug/l	1
05407	Toluene	108-88-3	12	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	7	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	63	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTTPH-Dx(water) w/SiGel	ECY 97-602 NWTTPH-Dx modified	1	11/17/2008 15:17	Heather E Williams	20
08273	TPH by NWTTPH-Gx waters	ECY 97-602 NWTTPH-Gx modified	1	11/12/2008 03:39	Tyler O Griffin	1
06053	BTEX by 8260B	SW-846 8260B	1	11/13/2008 18:43	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/12/2008 03:39	Tyler O Griffin	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/13/2008 18:43	Ginelle L Feister	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTTPH-Dx 06/97	1	11/14/2008 03:00	Roman Kuropatkin	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. **WW5520254**

Group No. **1118727**

MW-14 Grab Water Sample

Facility# **211577**

631 Queen Anne Ave N - Seattle, WA

Collected: 11/04/2008 09:30 by TK

Account Number: 11255

Submitted: 11/06/2008 09:00

Chevron

Reported: 11/18/2008 at 14:55

6001 Bollinger Canyon Rd L4310

Discard: 12/19/2008

San Ramon CA 94583

63114

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	2,900	57	ug/l	2
02096	Heavy Range Organics	n.a.	N.D.	130	ug/l	2
08273	TPH by NWTTPH-Gx waters					
01645	TPH by NWTTPH-Gx waters	n.a.	8,400	250	ug/l	5
06053	BTEX by 8260B					
05401	Benzene	71-43-2	38	0.5	ug/l	1
05407	Toluene	108-88-3	3	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	44	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	6	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTTPH-Dx(water) w/SiGel	ECY 97-602 NWTTPH-Dx modified	1	11/15/2008 12:49	Heather E Williams	2
08273	TPH by NWTTPH-Gx waters	ECY 97-602 NWTTPH-Gx modified	1	11/12/2008 10:25	Tyler O Griffin	5
06053	BTEX by 8260B	SW-846 8260B	1	11/13/2008 19:07	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/12/2008 10:25	Tyler O Griffin	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/13/2008 19:07	Ginelle L Feister	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTTPH-Dx 06/97	1	11/14/2008 03:00	Roman Kuropatkin	1



Analysis Report

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Lancaster Laboratories Sample No. **WW5520255**

Group No. **1118727**

MW-25 Grab Water Sample

Facility# **211577**

631 Queen Anne Ave N - Seattle, WA

Collected: 11/04/2008 08:30 by TK

Account Number: 11255

Submitted: 11/06/2008 09:00

Chevron

Reported: 11/18/2008 at 14:55

6001 Bollinger Canyon Rd L4310

Discard: 12/19/2008

San Ramon CA 94583

63125

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	33	31	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	72	ug/l	1
08273	TPH by NWTTPH-Gx waters					
01645	TPH by NWTTPH-Gx waters	n.a.	150	50	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	2	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTTPH-Dx(water) w/SiGel	ECY 97-602 NWTTPH-Dx modified	1	11/14/2008 17:18	Heather E Williams	1
08273	TPH by NWTTPH-Gx waters	ECY 97-602 NWTTPH-Gx modified	1	11/12/2008 04:23	Tyler O Griffin	1
06053	BTEX by 8260B	SW-846 8260B	1	11/13/2008 19:30	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/12/2008 04:23	Tyler O Griffin	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/13/2008 19:30	Ginelle L Feister	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTTPH-Dx 06/97	1	11/14/2008 03:00	Roman Kuropatkin	1



Analysis Report

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Lancaster Laboratories Sample No. WW5520257

Group No. 1118727

MW-32 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 11/04/2008 10:15 by TK

Account Number: 11255

Submitted: 11/06/2008 09:00

Chevron

Reported: 11/18/2008 at 14:56

6001 Bollinger Canyon Rd L4310

Discard: 12/19/2008

San Ramon CA 94583

63132

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	41	30	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	71	ug/l	1
08273	TPH by NWTTPH-Gx waters					
01645	TPH by NWTTPH-Gx waters	n.a.	130	50	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	36	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	2	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTTPH-Dx(water) w/SiGel	ECY 97-602 NWTTPH-Dx modified	1	11/14/2008 17:38	Heather E Williams	1
08273	TPH by NWTTPH-Gx waters	ECY 97-602 NWTTPH-Gx modified	1	11/12/2008 04:45	Tyler O Griffin	1
06053	BTEX by 8260B	SW-846 8260B	1	11/13/2008 19:54	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/12/2008 04:45	Tyler O Griffin	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/13/2008 19:54	Ginelle L Feister	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTTPH-Dx 06/97	1	11/14/2008 03:00	Roman Kuropatkin	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. **WW5520258**

Group No. **1118727**

MW-33 Grab Water Sample

Facility# **211577**

631 Queen Anne Ave N - Seattle, WA

Collected: 11/04/2008 11:00 by TK

Account Number: 11255

Submitted: 11/06/2008 09:00

Chevron

Reported: 11/18/2008 at 14:56

6001 Bollinger Canyon Rd L4310

Discard: 12/19/2008

San Ramon CA 94583

63133

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	270	30	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	69	ug/l	1
08273	TPH by NWTTPH-Gx waters					
01645	TPH by NWTTPH-Gx waters	n.a.	1,200	500	ug/l	10
06053	BTEX by 8260B					
05401	Benzene	71-43-2	2,700	25	ug/l	50
05407	Toluene	108-88-3	97	3	ug/l	5
05415	Ethylbenzene	100-41-4	95	3	ug/l	5
06310	Xylene (Total)	1330-20-7	85	3	ug/l	5

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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTTPH-Dx(water) w/SiGel	ECY 97-602 NWTTPH-Dx modified	1	11/14/2008 17:59	Heather E Williams	1
08273	TPH by NWTTPH-Gx waters	ECY 97-602 NWTTPH-Gx modified	1	11/12/2008 05:06	Tyler O Griffin	10
06053	BTEX by 8260B	SW-846 8260B	1	11/12/2008 07:32	Michael A Ziegler	5
06053	BTEX by 8260B	SW-846 8260B	1	11/12/2008 07:56	Michael A Ziegler	50
01146	GC VOA Water Prep	SW-846 5030B	1	11/12/2008 05:06	Tyler O Griffin	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/12/2008 07:32	Michael A Ziegler	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	11/12/2008 07:56	Michael A Ziegler	50
02135	Extraction - DRO Water Special	ECY 97-602 NWTTPH-Dx 06/97	1	11/14/2008 03:00	Roman Kuropatkin	1

Quality Control Summary

 Client Name: Chevron
 Reported: 11/18/08 at 02:56 PM

Group Number: 1118727

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>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: 08316C20A TPH by NWTPH-Gx waters	Sample number(s): 5520249-5520255,5520257-5520258							
	N.D.	50.	ug/l	83	92	75-135	10	30
Batch number: 083180022A Diesel Range Organics Heavy Range Organics	Sample number(s): 5520250-5520255,5520257-5520258							
	N.D.	30.	ug/l	69	69	61-106	0	20
	N.D.	70.	ug/l					
Batch number: D083164AA Benzene Toluene Ethylbenzene Xylene (Total)	Sample number(s): 5520258							
	N.D.	0.5	ug/l	92		78-119		
	N.D.	0.5	ug/l	105		85-115		
	N.D.	0.5	ug/l	100		82-119		
	N.D.	0.5	ug/l	105		83-113		
Batch number: D083181AA Benzene Toluene Ethylbenzene Xylene (Total)	Sample number(s): 5520249-5520255,5520257							
	N.D.	0.5	ug/l	94		78-119		
	N.D.	0.5	ug/l	93		85-115		
	N.D.	0.5	ug/l	91		82-119		
	N.D.	0.5	ug/l	95		83-113		

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: 08316C20A TPH by NWTPH-Gx waters	Sample number(s): 5520249-5520255,5520257-5520258 UNSPK: P521460								
	100		63-154						
Batch number: D083164AA Benzene Toluene Ethylbenzene Xylene (Total)	Sample number(s): 5520258 UNSPK: P518608								
	86	86	83-128	0	30				
	98	100	83-127	2	30				
	95	96	82-129	2	30				
	100	99	82-130	1	30				
Batch number: D083181AA Benzene Toluene Ethylbenzene Xylene (Total)	Sample number(s): 5520249-5520255,5520257 UNSPK: P521410								
	98	101	83-128	4	30				
	96	101	83-127	6	30				
	97	100	82-129	3	30				
	101	105	82-130	4	30				

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 11/18/08 at 02:56 PM

Group Number: 1118727

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-Gx waters
Batch number: 08316C20A
Trifluorotoluene-F

5520249	80
5520250	81
5520251	112
5520252	85
5520253	82
5520254	81
5520255	82
5520257	83
5520258	84
Blank	80
LCS	102
LCSD	101
MS	101

Limits: 63-135

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel
Batch number: 083180022A
Orthoterphenyl

5520250	132
5520251	108
5520252	99
5520253	156*
5520254	123
5520255	83
5520257	95
5520258	96
Blank	88
LCS	108
LCSD	108

Limits: 50-150

Analysis Name: BTEX by 8260B
Batch number: D083164AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5520258	91	92	97	99
Blank	93	97	98	94
LCS	91	97	96	103
MS	90	96	98	102
MSD	93	99	99	104

Limits: 80-116 77-113 80-113 78-113

Analysis Name: BTEX by 8260B
Batch number: D083181AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5520258	91	92	97	99
Blank	93	97	98	94
LCS	91	97	96	103
MS	90	96	98	102
MSD	93	99	99	104

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 11/18/08 at 02:56 PM

Group Number: 1118727

Surrogate Quality Control

5520249	102	105	88	96
5520250	102	102	84	94
5520251	95	95	85	97
5520252	100	102	84	92
5520253	97	99	84	100
5520254	98	99	87	102
5520255	98	100	86	96
5520257	99	101	86	96
Blank	101	104	86	93
LCS	99	104	87	105
MS	100	102	87	105
MSD	96	102	86	103
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

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

Chevron Northwest Region Analysis Request/Chain of Custody



222499

For Lancaster Laboratories use only
 Acct. #: 11255 Sample #: 5520049-58

SCR#:

WBS# NW RTB-211577-0-OML

Group# 1118727

Facility #: 21-1577
 Site Address: 631 Queen Ave N, Seattle
 Chevron PM: O. Skance Lead Consultant: SATC
 Consultant/Office: Bothell, WA
 Consultant Prj. Mgr.: P. Catterall
 Consultant Phone #: 425-482-3321 Fax #: 425-485-5566
 Sampler: T King / S Dunham / G Cisneros / H Lee
 Service Order #: _____ Non SAR:

Matrix		Analyses Requested																		
		Preservation Codes																		
Soil	Water	Oil	Air	Total Number of Containers	BTEX	MTBE	8021	8260	full scan	Oxygenates	NWTPH G	NWTPH D	Lead Total	Diss.	Method	VPH/EPH	NWTPH H	HClD	quantification	

Preservative Codes

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

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

8021 MTBE Confirmation

Confirm MTBE + Naphthalene
 Confirm highest hit by 8260
 Confirm all hits by 8260
 Run ___ oxy s on highest hit
 Run ___ oxy s on all hits

Sample Identification	Date Collected	Date Analyzed	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX	MTBE	8021	8260	full scan	Oxygenates	NWTPH G	NWTPH D	Lead Total	Diss.	Method	VPH/EPH	NWTPH H	HClD	quantification
QA-1-110408	11/4/08	11/5/08	0800				X				X	X	X	X	X		X	X	X						
DPE-2	11/4/08	11/5/08	1115				X				X	X	X	X	X		X	X	X						
RW-2	11/4/08	11/5/08	1005				X				X	X	X	X	X		X	X	X						
MW-5	11/4/08	11/5/08	1205				X				X	X	X	X	X		X	X	X						
DPE-6	11/4/08	11/5/08	0840				X				X	X	X	X	X		X	X	X						
MW-14	11/4/08	11/5/08	0930				X				X	X	X	X	X		X	X	X						
MW-25	11/4/08	11/5/08	0830				X				X	X	X	X	X		X	X	X						
MW-31	11/4/08	11/5/08	1215				X				X	X	X	X	X		X	X	X						
MW-32	11/4/08	11/5/08	1015				X				X	X	X	X	X		X	X	X						
MW-33	11/4/08	11/5/08	1100				X				X	X	X	X	X		X	X	X						

Comments / Remarks

Anna King

Turnaround Time Requested (TAT) (please circle)

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

Relinquished by: Andrew Lueck Date: 11/5/08 Time: 1320

Received by: _____ Date: _____ Time: _____

Data Package Options (please circle if required)

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

Relinquished by: _____ Date: _____ Time: _____

Relinquished by Commercial Carrier:
 UPS FedEx Other: _____

Temperature Upon Receipt 43-5.7 C°

Received by: Harriet Date: 11/6/08 Time: 0500

Custody Seals Intact? Yes No

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.

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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 17605-2425SAMPLE GROUP

The sample group for this submittal is 1118966. Samples arrived at the laboratory on Friday, November 07, 2008. The PO# for this group is 0015024861 and the release number is SKANCE.

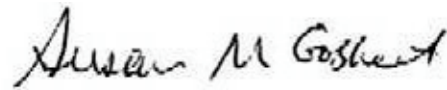
Client DescriptionQA-2-110508 Water Sample
MW-35 Grab Water SampleLancaster Labs Number5521566
5521567ELECTRONIC SAIC
COPY TO
ELECTRONIC SAIC
COPY TO

Attn: Tina King

Attn: Peter Catterall

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300

Respectfully Submitted,



Susan M. Goshert
Group Leader



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW5521566

Group No. 1118966

QA-2-110508 Water Sample
 Facility# 211577
 631 Queen Anne Ave N - Seattle, WA
 Collected: 11/05/2008 11:00

Account Number: 11255

Submitted: 11/07/2008 08:55
 Reported: 11/19/2008 at 16:37
 Discard: 12/20/2008

Chevron
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

6QATB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/12/2008 18:08	Tyler O Griffin	1
06053	BTEX by 8260B	SW-846 8260B	1	11/18/2008 23:51	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/12/2008 18:08	Tyler O Griffin	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/18/2008 23:51	Michael A Ziegler	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW5521567

Group No. 1118966

MW-35 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 11/05/2008 11:15 by TK

Account Number: 11255

Submitted: 11/07/2008 08:55

Chevron

Reported: 11/19/2008 at 16:37

6001 Bollinger Canyon Rd L4310

Discard: 12/20/2008

San Ramon CA 94583

6QA35

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	NWTPH-Dx water w/Si Gel					
02095	Diesel Range Organics	n.a.	110	29	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	67	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	180	50	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	150	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/15/2008 04:03	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/13/2008 02:29	Tyler O Griffin	1
06053	BTEX by 8260B	SW-846 8260B	1	11/17/2008 15:30	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/13/2008 02:29	Tyler O Griffin	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/17/2008 15:30	Ginelle L Feister	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/14/2008 01:45	Tracy L Schickel	1

Quality Control Summary

 Client Name: Chevron
 Reported: 11/19/08 at 04:37 PM

Group Number: 1118966

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>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: 08317B20A TPH by NWTPH-Gx waters	Sample number(s): 5521566-5521567 N.D.	50.	ug/l	100	100	75-135	0	30
Batch number: 083180029A Diesel Range Organics Heavy Range Organics	Sample number(s): 5521567 N.D. N.D.	30. 70.	ug/l ug/l	73		61-106		
Batch number: D083221AA Benzene Toluene Ethylbenzene Xylene (Total)	Sample number(s): 5521567 N.D. N.D. N.D. N.D.	0.5 0.5 0.5 0.5	ug/l ug/l ug/l ug/l	95 98 99 104		78-119 85-115 82-119 83-113		
Batch number: Z083234AA Benzene Toluene Ethylbenzene Xylene (Total)	Sample number(s): 5521566 N.D. N.D. N.D. N.D.	0.5 0.5 0.5 0.5	ug/l ug/l ug/l ug/l	98 106 103 105		78-119 85-115 82-119 83-113		

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: 08317B20A TPH by NWTPH-Gx waters	Sample number(s): 5521566-5521567 100		63-154			UNSPK: P521461			
Batch number: 083180029A Diesel Range Organics Heavy Range Organics	Sample number(s): 5521567 N.D. N.D.					BKG: P521347 N.D. N.D.	N.D. N.D.	0 (1) 0 (1)	20 20
Batch number: D083221AA Benzene Toluene Ethylbenzene Xylene (Total)	Sample number(s): 5521567 103 102 103 107	107 104 107 109	83-128 83-127 82-129 82-130	3 2 4 2	30 30 30 30	UNSPK: P522795			
Batch number: Z083234AA Benzene Toluene Ethylbenzene	Sample number(s): 5521566 107 116 112	104 114 110	83-128 83-127 82-129	2 2 1	30 30 30	UNSPK: P526064			

*- Outside of specification

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

Quality Control Summary

 Client Name: Chevron
 Reported: 11/19/08 at 04:37 PM

Group Number: 1118966

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Xylene (Total)	112	110	82-130	2	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: TPH by NWTPH-Gx waters
 Batch number: 08317B20A
 Trifluorotoluene-F

5521566	81
Blank	81
LCS	102
LCSD	106
MS	102

Limits: 63-135

 Analysis Name: NWTPH-Dx water w/Si Gel
 Batch number: 083180029A
 Orthoterphenyl

5521567	107
Blank	102
DUP	95
LCS	119

Limits: 50-150

 Analysis Name: BTEX by 8260B
 Batch number: D083221AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5521567	98	97	88	100
Blank	105	99	88	101
LCS	101	93	85	110
MS	101	98	87	112
MSD	103	100	86	113

Limits: 80-116 77-113 80-113 78-113

 Analysis Name: BTEX by 8260B
 Batch number: Z083234AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5521566	100	98	105	93
Blank	99	97	106	95
LCS	98	97	107	97
MS	98	98	107	97

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron

Group Number: 1118966

Reported: 11/19/08 at 04:37 PM

Surrogate Quality Control

MSD	96	97	107	97
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

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

Chevron Northwest Region Analysis Request/Chain of Custody

223583



For Lancaster Laboratories use only
 Acct. #: 11255 Sample #: 55215de-67

SCR#: _____

C#1118966

WBS# = NWRTB-211577-D-DML

Facility #: 21-1577
 Site Address: 631 Queen Anne Ave N Seattle, WA
 Chevron PM: Peter Catterall Lead Consultant: SAIC
 Consultant/Office: Bothell, WA
 Consultant Prj. Mgr.: Peter Catterall
 Consultant Phone #: 425-482-3321 Fax #: 425-485-5566
 Sampler: Tracy King / Stephanie Dunham
 Service Order #: _____ Non SAR: _____

Analyses Requested

Preservation Codes	
<input type="checkbox"/> BTEX <input type="checkbox"/> 8021 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan Oxygenates ALL TPH G ALL TPH D Extended Ring Silica Gel Cleanup Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method VP/HEPH NWT/PH H/Cl/D <input type="checkbox"/> quantification	

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

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

8021 MTBE Confirmation
 Confirm MTBE + Naphthalene
 Confirm highest hit by 8260
 Confirm all hits by 8260
 Run ___ oxy s on highest hit
 Run ___ oxy s on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix			Total Number of Containers	Analyses Requested								Comments / Remarks				
					Soil	Water	Oil <input type="checkbox"/> Air <input type="checkbox"/>		BTEX	8260	Oxygenates	ALL TPH G	ALL TPH D	Lead Total	VP/HEPH	NWT/PH H/Cl/D					
<u>QA-2-100508</u>	<u>11/5/08</u>	<u>11:05</u>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
<u>MW-35</u>	<u>11/5/08</u>	<u>11:15</u>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							

Turnaround Time Requested (TAT) (please circle)

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

Relinquished by: [Signature] Date: 11/6/08 Time: 1450 Received by: _____

Relinquished by: _____ Date: _____ Time: _____ Received by: _____

Data Package Options (please circle if required)

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

Relinquished by Commercial Carrier: _____ Received by: [Signature] Date: 11-7-08 Time: 0855

UPS FedEx Other: _____
 Temperature Upon Receipt: 4.5 °C Custody Seals Intact? Yes No

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.		
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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

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M	Duplicate injection precision not met
N	Spike amount not within control limits
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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

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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 17605-2425SAMPLE GROUP

The sample group for this submittal is 1119168. Samples arrived at the laboratory on Saturday, November 08, 2008. The PO# for this group is 0015024861 and the release number is SKANCE.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
MW-16 Grab Water Sample	5523116
MW-26 Grab Water Sample	5523117
DPE-8 Grab Water Sample	5523118
QA-1-110608 Water Sample	5523119
MW-21 Grab Water Sample	5523120
MW-30 Grab Water Sample	5523121
MW-17 Grab Water Sample	5523122
DUP-1-110608 Grab Water Sample	5523123
DUP-2-110608 Grab Water Sample	5523124
MW-30-FB Water Sample	5523125
MW-17-FB Water Sample	5523126
MW-34 Grab Water Sample	5523127
MW-31 Grab Water Sample	5523128
QA-2-110608 Water Sample	5523129

ELECTRONIC SAIC
COPY TO
ELECTRONIC SAIC
COPY TO

Attn: Tina King

Attn: Peter Catterall

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300

Respectfully Submitted,



Max E. Snavely
Senior Specialist



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW5523116

Group No. 1119168

MW-16 Grab Water Sample

Facility# 211577

631 Queen Anne N - Seattle, WA

Collected: 11/06/2008 09:15 by TMK

Account Number: 11255

Submitted: 11/08/2008 12:00

Chevron

Reported: 11/21/2008 at 18:44

6001 Bollinger Canyon Rd L4310

Discard: 12/22/2008

San Ramon CA 94583

SMW16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	181	52.2	ug/l	1
07058	Manganese	7439-96-5	1,900	0.84	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	50,300	460	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	46,200	6,000	ug/l	20
00230	Sulfide	18496-25-8	N.D.	54	ug/l	1
02211	NWTPH-Dx water w/Si Gel					
02095	Diesel Range Organics	n.a.	N.D.	28	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	66	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	11/19/2008 22:11	John P Hook	1
07058	Manganese	SW-846 6010B	1	11/19/2008 22:11	John P Hook	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	11/14/2008 17:39	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	11/14/2008 17:39	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	11/15/2008 23:17	Ashley M Heckman	20

Lancaster Laboratories Sample No. WW5523116

Group No. 1119168

MW-16 Grab Water Sample

Facility# 211577

631 Queen Anne N - Seattle, WA

Collected: 11/06/2008 09:15 by TMK

Account Number: 11255

Submitted: 11/08/2008 12:00

Chevron

Reported: 11/21/2008 at 18:44

6001 Bollinger Canyon Rd L4310

Discard: 12/22/2008

San Ramon CA 94583

SMW16

00230	Sulfide	SM20 4500 S2 D	1	11/10/2008 21:47	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/18/2008 03:16	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/15/2008 02:08	Carrie E Youtzy	1
06053	BTEX by 8260B	SW-846 8260B	1	11/17/2008 19:40	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/15/2008 02:08	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/17/2008 19:40	Ginelle L Feister	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/11/2008 09:48	Denise K Connors	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/17/2008 03:35	Tracy L Schickel	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW5523117

Group No. 1119168

MW-26 Grab Water Sample

Facility# 211577

631 Queen Anne N - Seattle, WA

Collected: 11/06/2008 11:15 by TMK

Account Number: 11255

Submitted: 11/08/2008 12:00

Chevron

Reported: 11/21/2008 at 18:44

6001 Bollinger Canyon Rd L4310

Discard: 12/22/2008

San Ramon CA 94583

SMW26

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01754	Iron	7439-89-6	4,260	52.2		ug/l	1
07058	Manganese	7439-96-5	3,710	0.84		ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460		ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	156,000	460		ug/l as CaCO3	1
00228	Sulfate	14808-79-8	117,000	6,000		ug/l	20
00230	Sulfide	18496-25-8	78	54		ug/l	1
02211	NWTPH-Dx water w/Si Gel						
02095	Diesel Range Organics	n.a.	2,500	28		ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	66		ug/l	1
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	1,100	50		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	450	5		ug/l	10
05407	Toluene	108-88-3	1	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	110	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	3	0.5		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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	11/19/2008 22:14	John P Hook	1
07058	Manganese	SW-846 6010B	1	11/19/2008 22:14	John P Hook	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	11/14/2008 17:39	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	11/14/2008 17:39	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	11/15/2008 23:32	Ashley M Heckman	20

Lancaster Laboratories Sample No. WW5523117

Group No. 1119168

MW-26 Grab Water Sample

Facility# 211577

631 Queen Anne N - Seattle, WA

Collected: 11/06/2008 11:15 by TMK

Account Number: 11255

Submitted: 11/08/2008 12:00

Chevron

Reported: 11/21/2008 at 18:44

6001 Bollinger Canyon Rd L4310

Discard: 12/22/2008

San Ramon CA 94583

SMW26

00230	Sulfide	SM20 4500 S2 D	1	11/10/2008 21:47	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/18/2008 20:34	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/15/2008 02:30	Carrie E Youtzy	1
06053	BTEX by 8260B	SW-846 8260B	1	11/19/2008 02:20	Michael A Ziegler	1
06053	BTEX by 8260B	SW-846 8260B	1	11/19/2008 02:45	Michael A Ziegler	10
01146	GC VOA Water Prep	SW-846 5030B	1	11/15/2008 02:30	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/19/2008 02:20	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	11/19/2008 02:45	Michael A Ziegler	10
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/11/2008 09:48	Denise K Connors	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/17/2008 03:35	Tracy L Schickel	1



Analysis Report

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Page 1 of 2

Lancaster Laboratories Sample No. WW5523118

Group No. 1119168

DPE-8 Grab Water Sample

Facility# 211577

631 Queen Anne N - Seattle, WA

Collected: 11/06/2008 12:55 by TMK

Account Number: 11255

Submitted: 11/08/2008 12:00

Chevron

Reported: 11/21/2008 at 18:44

6001 Bollinger Canyon Rd L4310

Discard: 12/22/2008

San Ramon CA 94583

SDPE8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	99,600	52.2	ug/l	1
07058	Manganese	7439-96-5	22,300	4.2	ug/l	5
00201	Alkalinity to pH 8.3	n.a.	N.D.	460	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	529,000	460	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	4,200	1,500	ug/l	5
00230	Sulfide	18496-25-8	580	54	ug/l	1
02211	NWTPH-Dx water w/Si Gel					
02095	Diesel Range Organics	n.a.	18,000	1,400	ug/l	50
02096	Heavy Range Organics	n.a.	N.D.	3,300	ug/l	50
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	3,500	250	ug/l	5
Due to excessive foaming of the sample, normal reporting limits were not attained.						
06053	BTEX by 8260B					
05401	Benzene	71-43-2	35	0.5	ug/l	1
05407	Toluene	108-88-3	16	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	19	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	140	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	11/19/2008 22:18	John P Hook	1
07058	Manganese	SW-846 6010B	1	11/20/2008 15:56	Eric L Eby	5
00201	Alkalinity to pH 8.3	SM20 2320 B	1	11/14/2008 17:39	Geraldine C Smith	1

Lancaster Laboratories Sample No. WW5523118

Group No. 1119168

DPE-8 Grab Water Sample

Facility# 211577

631 Queen Anne N - Seattle, WA

Collected: 11/06/2008 12:55 by TMK

Account Number: 11255

Submitted: 11/08/2008 12:00

Chevron

Reported: 11/21/2008 at 18:44

6001 Bollinger Canyon Rd L4310

Discard: 12/22/2008

San Ramon CA 94583

SDPE8

00202	Alkalinity to pH 4.5	SM20 2320 B	1	11/14/2008 17:39	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	11/18/2008 01:15	Ashley M Heckman	5
00230	Sulfide	SM20 4500 S2 D	1	11/10/2008 21:47	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/18/2008 20:55	Heather E Williams	50
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/15/2008 12:10	Carrie E Youtzy	5
06053	BTEX by 8260B	SW-846 8260B	1	11/17/2008 20:04	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/15/2008 12:10	Carrie E Youtzy	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/17/2008 20:04	Ginelle L Feister	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/11/2008 09:48	Denise K Connors	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/17/2008 03:35	Tracy L Schickel	1



Analysis Report

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Lancaster Laboratories Sample No. WW5523119

Group No. 1119168

QA-1-110608 Water Sample
Facility# 211577
631 Queen Anne N - Seattle, WA
Collected: 11/06/2008 08:00

Account Number: 11255

Submitted: 11/08/2008 12:00
Reported: 11/21/2008 at 18:44
Discard: 12/22/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SWQA1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/15/2008 00:37	Carrie E Youtzy	1
06053	BTEX by 8260B	SW-846 8260B	1	11/19/2008 03:09	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/15/2008 00:37	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/19/2008 03:09	Michael A Ziegler	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW5523120

Group No. 1119168

MW-21 Grab Water Sample

Facility# 211577

631 Queen Anne N - Seattle, WA

Collected: 11/06/2008 09:50 by TMK

Account Number: 11255

Submitted: 11/08/2008 12:00

Chevron

Reported: 11/21/2008 at 18:44

6001 Bollinger Canyon Rd L4310

Discard: 12/22/2008

San Ramon CA 94583

SMW21

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	5,980	52.2	ug/l	1
07058	Manganese	7439-96-5	374	0.84	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	260,000	460	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	18,400	1,500	ug/l	5
00230	Sulfide	18496-25-8	N.D.	54	ug/l	1
02211	NWTPH-Dx water w/Si Gel					
02095	Diesel Range Organics	n.a.	N.D.	30	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	70	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	79	50	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	120	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	11/19/2008 22:22	John P Hook	1
07058	Manganese	SW-846 6010B	1	11/19/2008 22:22	John P Hook	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	11/14/2008 17:39	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	11/14/2008 17:39	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	11/16/2008 00:03	Ashley M Heckman	5

Lancaster Laboratories Sample No. WW5523120

Group No. 1119168

MW-21 Grab Water Sample

Facility# 211577

631 Queen Anne N - Seattle, WA

Collected: 11/06/2008 09:50 by TMK

Account Number: 11255

Submitted: 11/08/2008 12:00

Chevron

Reported: 11/21/2008 at 18:44

6001 Bollinger Canyon Rd L4310

Discard: 12/22/2008

San Ramon CA 94583

SMW21

00230	Sulfide	SM20 4500 S2 D	1	11/10/2008 21:47	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/18/2008 03:37	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/15/2008 12:32	Carrie E Youtzy	1
06053	BTEX by 8260B	SW-846 8260B	1	11/19/2008 03:34	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/15/2008 12:32	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/19/2008 03:34	Michael A Ziegler	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/11/2008 09:48	Denise K Connors	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/17/2008 03:35	Tracy L Schickel	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. **WW5523121**

Group No. **1119168**

MW-30 Grab Water Sample

Facility# 211577

631 Queen Anne N - Seattle, WA

Collected: 11/06/2008 13:00 by TMK

Account Number: 11255

Submitted: 11/08/2008 12:00

Chevron

Reported: 11/21/2008 at 18:44

6001 Bollinger Canyon Rd L4310

Discard: 12/22/2008

San Ramon CA 94583

SMW30

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	196	52.2	ug/l	1
07058	Manganese	7439-96-5	108	0.84	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	226,000	460	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	10,700	1,500	ug/l	5
00230	Sulfide	18496-25-8	N.D.	54	ug/l	1
02211	NWTPH-Dx water w/Si Gel					
02095	Diesel Range Organics	n.a.	N.D.	30	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	71	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	11/19/2008 22:25	John P Hook	1
07058	Manganese	SW-846 6010B	1	11/19/2008 22:25	John P Hook	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	11/14/2008 17:39	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	11/14/2008 17:39	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	11/16/2008 01:20	Ashley M Heckman	5

Lancaster Laboratories Sample No. WW5523121

Group No. 1119168

MW-30 Grab Water Sample

Facility# 211577

631 Queen Anne N - Seattle, WA

Collected: 11/06/2008 13:00 by TMK

Account Number: 11255

Submitted: 11/08/2008 12:00

Reported: 11/21/2008 at 18:44

Discard: 12/22/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

SMW30

00230	Sulfide	SM20 4500 S2 D	1	11/10/2008 21:47	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/18/2008 03:57	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/15/2008 03:35	Carrie E Youtzy	1
06053	BTEX by 8260B	SW-846 8260B	1	11/19/2008 03:59	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/15/2008 03:35	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/19/2008 03:59	Michael A Ziegler	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/11/2008 09:48	Denise K Connors	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/17/2008 03:35	Tracy L Schickel	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. **WW5523122**

Group No. **1119168**

MW-17 Grab Water Sample

Facility# **211577**

631 Queen Anne N - Seattle, WA

Collected: 11/06/2008 11:20 by **TMK**

Account Number: **11255**

Submitted: 11/08/2008 12:00

Chevron

Reported: 11/21/2008 at 18:44

6001 Bollinger Canyon Rd L4310

Discard: 12/22/2008

San Ramon CA 94583

SMW17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01754	Iron	7439-89-6	499		52.2	ug/l	1
07058	Manganese	7439-96-5	1,990		0.84	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.		460	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	92,800		460	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	65,700		3,000	ug/l	10
00230	Sulfide	18496-25-8	N.D.		54	ug/l	1
02211	NWTPH-Dx water w/Si Gel						
02095	Diesel Range Organics	n.a.	160		30	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.		70	ug/l	1
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	67		50	ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	22		0.5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.		0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.		0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	11/19/2008 22:29	John P Hook	1
07058	Manganese	SW-846 6010B	1	11/19/2008 22:29	John P Hook	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	11/14/2008 17:39	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	11/14/2008 17:39	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	11/18/2008 01:31	Ashley M Heckman	10

Lancaster Laboratories Sample No. WW5523122

Group No. 1119168

MW-17 Grab Water Sample

Facility# 211577

631 Queen Anne N - Seattle, WA

Collected: 11/06/2008 11:20 by TMK

Account Number: 11255

Submitted: 11/08/2008 12:00

Reported: 11/21/2008 at 18:44

Discard: 12/22/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

SMW17

00230	Sulfide	SM20 4500 S2 D	1	11/10/2008 21:47	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/18/2008 19:29	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/15/2008 03:56	Carrie E Youtzy	1
06053	BTEX by 8260B	SW-846 8260B	1	11/19/2008 04:23	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/15/2008 03:56	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/19/2008 04:23	Michael A Ziegler	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/11/2008 09:48	Denise K Connors	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/17/2008 03:35	Tracy L Schickel	1



Analysis Report

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Lancaster Laboratories Sample No. WW5523123

Group No. 1119168

DUP-1-110608 Grab Water Sample

Facility# 211577

631 Queen Anne N - Seattle, WA

Collected: 11/06/2008 by TMK

Account Number: 11255

Submitted: 11/08/2008 12:00

Chevron

Reported: 11/21/2008 at 18:44

6001 Bollinger Canyon Rd L4310

Discard: 12/22/2008

San Ramon CA 94583

SDUP1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	325	52.2	ug/l	1
07058	Manganese	7439-96-5	92.9	0.84	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	224,000	460	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	11,000	1,500	ug/l	5
00230	Sulfide	18496-25-8	N.D.	54	ug/l	1
02211	NWTPH-Dx water w/Si Gel					
02095	Diesel Range Organics	n.a.	N.D.	31	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	71	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	11/19/2008 22:32	John P Hook	1
07058	Manganese	SW-846 6010B	1	11/19/2008 22:32	John P Hook	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	11/14/2008 17:39	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	11/14/2008 17:39	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	11/16/2008 01:51	Ashley M Heckman	5

Lancaster Laboratories Sample No. WW5523123

Group No. 1119168

DUP-1-110608 Grab Water Sample

Facility# 211577

631 Queen Anne N - Seattle, WA

Collected: 11/06/2008 by TMK

Account Number: 11255

Submitted: 11/08/2008 12:00

Reported: 11/21/2008 at 18:44

Discard: 12/22/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

SDUP1

00230	Sulfide	SM20 4500 S2 D	1	11/10/2008 21:47	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/18/2008 19:52	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/15/2008 04:18	Carrie E Youtzy	1
06053	BTEX by 8260B	SW-846 8260B	1	11/19/2008 04:47	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/15/2008 04:18	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/19/2008 04:47	Michael A Ziegler	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/11/2008 09:48	Denise K Connors	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/17/2008 03:35	Tracy L Schickel	1



Analysis Report

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Lancaster Laboratories Sample No. **WW5523124**

Group No. **1119168**

DUP-2-110608 Grab Water Sample

Facility# 211577

631 Queen Anne N - Seattle, WA

Collected: 11/06/2008 by TMK

Account Number: 11255

Submitted: 11/08/2008 12:00

Chevron

Reported: 11/21/2008 at 18:44

6001 Bollinger Canyon Rd L4310

Discard: 12/22/2008

San Ramon CA 94583

SDUP2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	647	52.2	ug/l	1
07058	Manganese	7439-96-5	2,450	0.84	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	111,000	460	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	68,400	3,000	ug/l	10
00230	Sulfide	18496-25-8	N.D.	54	ug/l	1
02211	NWTPH-Dx water w/Si Gel					
02095	Diesel Range Organics	n.a.	150	28	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	66	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	110	50	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	30	0.5	ug/l	1
05407	Toluene	108-88-3	0.6	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	11/19/2008 22:43	John P Hook	1
07058	Manganese	SW-846 6010B	1	11/19/2008 22:43	John P Hook	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	11/14/2008 17:39	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	11/14/2008 17:39	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	11/18/2008 01:46	Ashley M Heckman	10

Lancaster Laboratories Sample No. WW5523124

Group No. 1119168

DUP-2-110608 Grab Water Sample

Facility# 211577

631 Queen Anne N - Seattle, WA

Collected: 11/06/2008 by TMK

Account Number: 11255

Submitted: 11/08/2008 12:00

Reported: 11/21/2008 at 18:44

Discard: 12/22/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

SDUP2

00230	Sulfide	SM20 4500 S2 D	1	11/10/2008 21:47	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/18/2008 20:13	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/15/2008 04:40	Carrie E Youtzy	1
06053	BTEX by 8260B	SW-846 8260B	1	11/19/2008 05:12	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/15/2008 04:40	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/19/2008 05:12	Michael A Ziegler	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/11/2008 09:48	Denise K Connors	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/17/2008 03:35	Tracy L Schickel	1



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Lancaster Laboratories Sample No. **WW5523125**

Group No. **1119168**

MW-30-FB Water Sample

Facility# 211577

631 Queen Anne N - Seattle, WA

Collected: 11/06/2008 12:30 by TMK

Account Number: 11255

Submitted: 11/08/2008 12:00

Chevron

Reported: 11/21/2008 at 18:44

6001 Bollinger Canyon Rd L4310

Discard: 12/22/2008

San Ramon CA 94583

M30FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/15/2008 01:21	Carrie E Youtzy	1
06053	BTEX by 8260B	SW-846 8260B	1	11/19/2008 05:37	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/15/2008 01:21	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/19/2008 05:37	Michael A Ziegler	1



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Lancaster Laboratories Sample No. WW5523126

Group No. 1119168

MW-17-FB Water Sample

Facility# 211577

631 Queen Anne N - Seattle, WA

Collected: 11/06/2008 15:35 by TMK

Account Number: 11255

Submitted: 11/08/2008 12:00

Chevron

Reported: 11/21/2008 at 18:44

6001 Bollinger Canyon Rd L4310

Discard: 12/22/2008

San Ramon CA 94583

M17FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/15/2008 01:46	Carrie E Youtzy	1
06053	BTEX by 8260B	SW-846 8260B	1	11/18/2008 23:27	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/15/2008 01:46	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/18/2008 23:27	Michael A Ziegler	1



Analysis Report

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Lancaster Laboratories Sample No. WW5523127

Group No. 1119168

MW-34 Grab Water Sample

Facility# 211577

631 Queen Anne N - Seattle, WA

Collected: 11/06/2008 14:40 by TMK

Account Number: 11255

Submitted: 11/08/2008 12:00

Chevron

Reported: 11/21/2008 at 18:44

6001 Bollinger Canyon Rd L4310

Discard: 12/22/2008

San Ramon CA 94583

SMW34

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	426	52.2	ug/l	1
07058	Manganese	7439-96-5	15.7	0.84	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	90,100	460	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	24,500	1,500	ug/l	5
00230	Sulfide	18496-25-8	N.D.	54	ug/l	1
02211	NWTPH-Dx water w/Si Gel					
02095	Diesel Range Organics	n.a.	N.D.	31	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	73	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	11/20/2008 05:17	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	11/20/2008 19:45	John P Hook	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	11/14/2008 17:39	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	11/14/2008 17:39	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	11/16/2008 02:22	Ashley M Heckman	5

Lancaster Laboratories Sample No. WW5523127

Group No. 1119168

MW-34 Grab Water Sample

Facility# 211577

631 Queen Anne N - Seattle, WA

Collected: 11/06/2008 14:40 by TMK

Account Number: 11255

Submitted: 11/08/2008 12:00

Reported: 11/21/2008 at 18:44

Discard: 12/22/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

SMW34

00230	Sulfide	SM20 4500 S2 D	1	11/10/2008 21:47	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/18/2008 22:39	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/15/2008 05:01	Carrie E Youtzy	1
06053	BTEX by 8260B	SW-846 8260B	1	11/16/2008 11:22	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/15/2008 05:01	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/16/2008 11:22	Ginelle L Feister	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/12/2008 15:02	James L Mertz	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/18/2008 02:35	David V Hershey Jr	1



Analysis Report

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Lancaster Laboratories Sample No. **WW5523128**

Group No. **1119168**

MW-31 Grab Water Sample

Facility# **211577**

631 Queen Anne N - Seattle, WA

Collected: 11/04/2008 12:15 by **TMK**

Account Number: **11255**

Submitted: 11/08/2008 12:00

Chevron

Reported: 11/21/2008 at 18:44

6001 Bollinger Canyon Rd L4310

Discard: 12/22/2008

San Ramon CA 94583

SMW31

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	NWTPH-Dx water w/Si Gel					
02095	Diesel Range Organics	n.a.	N.D.	29	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	69	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/14/2008 22:30	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/13/2008 00:40	Tyler O Griffin	1
06053	BTEX by 8260B	SW-846 8260B	1	11/16/2008 12:32	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/13/2008 00:40	Tyler O Griffin	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/16/2008 12:32	Ginelle L Feister	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/14/2008 01:45	Tracy L Schickel	1



Analysis Report

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Lancaster Laboratories Sample No. WW5523129

Group No. 1119168

QA-2-110608 Water Sample
 Facility# 211577
 631 Queen Anne N - Seattle, WA
 Collected: 11/06/2008 08:00

Account Number: 11255

Submitted: 11/08/2008 12:00
 Reported: 11/21/2008 at 18:44
 Discard: 12/22/2008

Chevron
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

SWQA2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/15/2008 00:59	Carrie E Youtzy	1
06053	BTEX by 8260B	SW-846 8260B	1	11/16/2008 12:56	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/15/2008 00:59	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/16/2008 12:56	Ginelle L Feister	1

Quality Control Summary

 Client Name: Chevron
 Reported: 11/21/08 at 06:44 PM

Group Number: 1119168

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>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: 08315023002A Sulfide	N.D.	54.	ug/l	102		90-110		
Batch number: 083151848006 Iron Manganese	N.D.	52.2	ug/l	100		90-112		
Batch number: 083161848005 Iron Manganese	N.D.	0.84	ug/l	96		90-110		
Batch number: 08317B20A TPH by NWTPH-Gx waters	N.D.	50.	ug/l	100	100	75-135	0	30
Batch number: 083180028A Diesel Range Organics Heavy Range Organics	N.D.	30.	ug/l	71	68	61-106	5	20
Batch number: 08319020201A Alkalinity to pH 4.5	N.D.	460.	ug/l as CaCO ₃	101		98-103		
Batch number: 08319B20A TPH by NWTPH-Gx waters	N.D.	50.	ug/l	79	83	75-135	5	30
Batch number: 083200024A Diesel Range Organics Heavy Range Organics	N.D.	30.	ug/l	68	68	61-106	0	20
Batch number: 08320196602A Sulfate	N.D.	300.	ug/l	101		89-110		
Batch number: 08320196602B Sulfate	N.D.	300.	ug/l	101		89-110		
Batch number: 083220019A Diesel Range Organics Heavy Range Organics	N.D.	30.	ug/l	66	73	61-106	9	20
Batch number: D083211AA Benzene Toluene Ethylbenzene Xylene (Total)	N.D.	0.5	ug/l	101		78-119		
Batch number: D083222AA Benzene	N.D.	0.5	ug/l	90		78-119		

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron

Group Number: 1119168

Reported: 11/21/08 at 06:44 PM

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Toluene	N.D.	0.5	ug/l	93		85-115		
Ethylbenzene	N.D.	0.5	ug/l	93		82-119		
Xylene (Total)	N.D.	0.5	ug/l	96		83-113		
Batch number: Z083234AA Sample number(s): 5523117,5523119-5523126								
Benzene	N.D.	0.5	ug/l	98		78-119		
Toluene	N.D.	0.5	ug/l	106		85-115		
Ethylbenzene	N.D.	0.5	ug/l	103		82-119		
Xylene (Total)	N.D.	0.5	ug/l	105		83-113		

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: 08315023002A Sample number(s): 5523116-5523118,5523120-5523124,5523127 UNSPK: 5523116 BKG: 5523118									
Sulfide	100	97	35-169	3	18	580	580	1 (1)	7
Batch number: 083151848006 Sample number(s): 5523116-5523118,5523120-5523124 UNSPK: P520101 BKG: P520101									
Iron	97	98	75-125	1	20	N.D.	N.D.	0 (1)	20
Manganese	97	98	75-125	0	20	33.0	33.5	1	20
Batch number: 083161848005 Sample number(s): 5523127 UNSPK: P522320 BKG: P522320									
Iron	86 (2)	69 (2)	75-125	2	20	6,050	5,880	3	20
Manganese	91	86	75-125	1	20	1,490	1,470	1	20
Batch number: 08317B20A Sample number(s): 5523128 UNSPK: P521461									
TPH by NWTPH-Gx waters	100		63-154						
Batch number: 08319020201A Sample number(s): 5523116-5523118,5523120-5523124,5523127 UNSPK: P522569 BKG: P522569									
Alkalinity to pH 8.3						N.D.	N.D.	0 (1)	4
Alkalinity to pH 4.5	100	99	64-130	0	2	45,700	45,800	0	4
Batch number: 08319B20A Sample number(s): 5523116-5523127,5523129 UNSPK: 5523123									
TPH by NWTPH-Gx waters	92		63-154						
Batch number: 08320196602A Sample number(s): 5523116-5523118 UNSPK: P521080 BKG: P521080									
Sulfate	120*		90-110			347,000	337,000	3	20
Batch number: 08320196602B Sample number(s): 5523120-5523124,5523127 UNSPK: 5523120 BKG: 5523120									
Sulfate	106		90-110			18,400	18,500	0 (1)	20
Batch number: D083211AA Sample number(s): 5523127-5523129 UNSPK: 5523127									
Benzene	102	100	83-128	2	30				
Toluene	106	108	83-127	2	30				
Ethylbenzene	104	105	82-129	1	30				
Xylene (Total)	107	109	82-130	2	30				

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

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

Quality Control Summary

 Client Name: Chevron
 Reported: 11/21/08 at 06:44 PM

Group Number: 1119168

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Batch number: D083222AA	Sample number(s): 5523116, 5523118 UNSPK: P522810								
Benzene	95	94	83-128	0	30				
Toluene	96	95	83-127	1	30				
Ethylbenzene	95	97	82-129	1	30				
Xylene (Total)	100	100	82-130	0	30				
Batch number: Z083234AA	Sample number(s): 5523117, 5523119-5523126 UNSPK: P526064								
Benzene	107	104	83-128	2	30				
Toluene	116	114	83-127	2	30				
Ethylbenzene	112	110	82-129	1	30				
Xylene (Total)	112	110	82-130	2	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: TPH by NWTPH-Gx waters
 Batch number: 08317B20A
 Trifluorotoluene-F

5523128	82
Blank	81
LCS	102
LCSD	106
MS	102

Limits: 63-135

 Analysis Name: NWTPH-Dx water w/Si Gel
 Batch number: 083180028A
 Orthoterphenyl

5523128	86
Blank	104
LCS	115
LCSD	116

Limits: 50-150

 Analysis Name: TPH by NWTPH-Gx waters
 Batch number: 08319B20A
 Trifluorotoluene-F

5523116	80
5523117	91
5523118	168*
5523119	80
5523120	88
5523121	80

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 11/21/08 at 06:44 PM

Group Number: 1119168

Surrogate Quality Control

5523122 86
5523123 81
5523124 84
5523125 80
5523126 80
5523127 81
5523129 80
Blank 80
LCS 95
LCSD 97
MS 101

Limits: 63-135

Analysis Name: NWTTPH-Dx water w/Si Gel
Batch number: 083200024A
Orthoterphenyl

5523116 95
5523117 121
5523118 87
5523120 89
5523121 82
5523122 101
5523123 88
5523124 99
Blank 97
LCS 110
LCSD 109

Limits: 50-150

Analysis Name: NWTTPH-Dx water w/Si Gel
Batch number: 083220019A
Orthoterphenyl

5523127 93
Blank 92
LCS 107
LCSD 109

Limits: 50-150

Analysis Name: BTEX by 8260B
Batch number: D083211AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5523127	93	94	92	97
5523128	94	93	90	95
5523129	99	99	92	97
Blank	92	95	91	96
LCS	92	96	94	108
MS	94	95	91	107
MSD	91	92	90	106

Limits: 80-116 77-113 80-113 78-113

Analysis Name: BTEX by 8260B

*- Outside of specification

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

Quality Control Summary

 Client Name: Chevron
 Reported: 11/21/08 at 06:44 PM

Group Number: 1119168

Surrogate Quality Control

Batch number: D083222AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5523116	94	93	82	96
5523118	92	93	83	106
Blank	98	93	84	93
LCS	95	89	84	106
MS	97	94	84	106
MSD	92	87	81	105
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX by 8260B

Batch number: Z083234AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5523117	97	94	105	99
5523119	98	95	107	93
5523120	98	95	105	95
5523121	99	96	107	93
5523122	98	95	107	95
5523123	100	97	107	93
5523124	99	94	105	96
5523125	100	96	107	92
5523126	99	96	107	93
Blank	99	97	106	95
LCS	98	97	107	97
MS	98	98	107	97
MSD	96	97	107	97
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

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

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 1119658. Samples arrived at the laboratory on Wednesday, November 12, 2008. The PO# for this group is 0015024861 and the release number is SKANCE.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
QA-1-111008 Water Sample	5525998
MW-10 Grab Water Sample	5525999
MW-6 Grab Water Sample	5526000
DUP-1-111008 Grab Water Sample	5526001
MW-9 Grab Water Sample	5526002
MW-6-FB Water Sample	5526003
MW-4 Grab Water Sample	5526004

ELECTRONIC SAIC
COPY TO
ELECTRONIC SAIC
COPY TO

Attn: Tina King

Attn: Peter Catterall

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300

Respectfully Submitted,



Max E. Snavelly
Senior Specialist



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW5525998

Group No. 1119658

QA-1-111008 Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 11/10/2008 08:00

Account Number: 11255

Submitted: 11/12/2008 09:00

Chevron

Reported: 11/25/2008 at 13:55

6001 Bollinger Canyon Rd L4310

Discard: 12/26/2008

San Ramon CA 94583

QANTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/19/2008 01:03	Marie D John	1
06053	BTEX by 8260B	SW-846 8260B	1	11/21/2008 02:35	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/19/2008 01:03	Marie D John	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/21/2008 02:35	Michael A Ziegler	1



Analysis Report

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Lancaster Laboratories Sample No. WW5525999

Group No. 1119658

MW-10 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 11/10/2008 10:30 by TMK

Account Number: 11255

Submitted: 11/12/2008 09:00

Chevron

Reported: 11/25/2008 at 13:55

6001 Bollinger Canyon Rd L4310

Discard: 12/26/2008

San Ramon CA 94583

QAN10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	390	52.2	ug/l	1
07058	Manganese	7439-96-5	1,570	0.84	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	168,000	460	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	45,900	1,500	ug/l	5
00230	Sulfide	18496-25-8	N.D.	54	ug/l	1
02211	NWTPH-Dx water w/Si Gel					
10376	DRO C12-C24 w/Si Gel	n.a.	N.D.	30	ug/l	1
10377	HRO C24-C40 w/Si Gel	n.a.	N.D.	69	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	0.7	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	11/21/2008 21:50	Thomas F McLamb Sr	1
07058	Manganese	SW-846 6010B	1	11/21/2008 21:50	Thomas F McLamb Sr	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	11/18/2008 17:11	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	11/18/2008 17:11	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	11/18/2008 18:54	Ashley M Heckman	5

Lancaster Laboratories Sample No. WW5525999

Group No. 1119658

MW-10 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 11/10/2008 10:30 by TMK

Account Number: 11255

Submitted: 11/12/2008 09:00

Chevron

Reported: 11/25/2008 at 13:55

6001 Bollinger Canyon Rd L4310

Discard: 12/26/2008

San Ramon CA 94583

QAN10

00230	Sulfide	SM20 4500 S2 D	1	11/17/2008 21:52	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/24/2008 11:40	Diane V Do	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/19/2008 03:56	Marie D John	1
06053	BTEX by 8260B	SW-846 8260B	1	11/21/2008 02:59	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/19/2008 03:56	Marie D John	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/21/2008 02:59	Michael A Ziegler	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/13/2008 14:45	James L Mertz	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/22/2008 16:35	JoElla L Rice	1

Lancaster Laboratories Sample No. WW5526000
Group No. 1119658
MW-6 Grab Water Sample
Facility# 211577
631 Queen Anne Ave N - Seattle, WA

Collected: 11/10/2008 11:55 by TMK

Account Number: 11255

Submitted: 11/12/2008 09:00

Chevron

Reported: 11/25/2008 at 13:55

6001 Bollinger Canyon Rd L4310

Discard: 12/26/2008

San Ramon CA 94583

QAN06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	6,590	52.2	ug/l	1
07058	Manganese	7439-96-5	32,400	4.2	ug/l	5
00201	Alkalinity to pH 8.3	n.a.	N.D.	460	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	38,900	460	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	785,000	30,000	ug/l	100
00230	Sulfide	18496-25-8	N.D.	54	ug/l	1
02211	NWTPH-Dx water w/Si Gel					
10376	DRO C12-C24 w/Si Gel	n.a.	3,200	280	ug/l	10
10377	HRO C24-C40 w/Si Gel	n.a.	N.D.	660	ug/l	10
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	0.6	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01754	Iron	SW-846 6010B	1	11/21/2008 21:54	Thomas F McLamb Sr	1
07058	Manganese	SW-846 6010B	1	11/22/2008 18:57	Thomas F McLamb Sr	5
00201	Alkalinity to pH 8.3	SM20 2320 B	1	11/18/2008 17:11	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	11/18/2008 17:11	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	11/19/2008 13:54	Ashley M Heckman	100

Lancaster Laboratories Sample No. WW5526000

Group No. 1119658

MW-6 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 11/10/2008 11:55 by TMK

Account Number: 11255

Submitted: 11/12/2008 09:00

Chevron

Reported: 11/25/2008 at 13:55

6001 Bollinger Canyon Rd L4310

Discard: 12/26/2008

San Ramon CA 94583

QAN06

00230	Sulfide	SM20 4500 S2 D	1	11/17/2008 21:52	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/25/2008 08:25	Diane V Do	10
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/19/2008 04:18	Marie D John	1
06053	BTEX by 8260B	SW-846 8260B	1	11/20/2008 16:16	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/19/2008 04:18	Marie D John	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/20/2008 16:16	Ginelle L Feister	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/13/2008 14:45	James L Mertz	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/22/2008 16:35	JoElla L Rice	1



Analysis Report

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Lancaster Laboratories Sample No. WW5526001

Group No. 1119658

DUP-1-111008 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 11/10/2008 by TMK

Account Number: 11255

Submitted: 11/12/2008 09:00

Chevron

Reported: 11/25/2008 at 13:55

6001 Bollinger Canyon Rd L4310

Discard: 12/26/2008

San Ramon CA 94583

QANFD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	6,370	52.2	ug/l	1
07058	Manganese	7439-96-5	32,700	4.2	ug/l	5
00201	Alkalinity to pH 8.3	n.a.	N.D.	460	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	39,200	460	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	843,000	30,000	ug/l	100
00230	Sulfide	18496-25-8	N.D.	54	ug/l	1
02211	NWTPH-Dx water w/Si Gel					
10376	DRO C12-C24 w/Si Gel	n.a.	3,200	280	ug/l	10
10377	HRO C24-C40 w/Si Gel	n.a.	N.D.	660	ug/l	10
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	0.6	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	11/21/2008 21:58	Thomas F McLamb Sr	1
07058	Manganese	SW-846 6010B	1	11/22/2008 19:01	Thomas F McLamb Sr	5
00201	Alkalinity to pH 8.3	SM20 2320 B	1	11/18/2008 17:11	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	11/18/2008 17:11	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	11/19/2008 14:40	Ashley M Heckman	100

Lancaster Laboratories Sample No. WW5526001

Group No. 1119658

DUP-1-111008 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 11/10/2008 by TMK

Account Number: 11255

Submitted: 11/12/2008 09:00

Reported: 11/25/2008 at 13:55

Discard: 12/26/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

QANFD

00230	Sulfide	SM20 4500 S2 D	1	11/17/2008 21:52	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/25/2008 08:46	Diane V Do	10
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/19/2008 04:40	Marie D John	1
06053	BTEX by 8260B	SW-846 8260B	1	11/20/2008 16:41	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/19/2008 04:40	Marie D John	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/20/2008 16:41	Ginelle L Feister	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/13/2008 14:45	James L Mertz	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/22/2008 16:35	JoElla L Rice	1

Lancaster Laboratories Sample No. WW5526002
Group No. 1119658
MW-9 Grab Water Sample
Facility# 211577
631 Queen Anne Ave N - Seattle, WA

Collected: 11/10/2008 11:51 by TMK

Account Number: 11255

Submitted: 11/12/2008 09:00

Chevron

Reported: 11/25/2008 at 13:55

6001 Bollinger Canyon Rd L4310

Discard: 12/26/2008

San Ramon CA 94583

QAN09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01754	Iron	7439-89-6	23,400	52.2		ug/l	1
07058	Manganese	7439-96-5	21,400	4.2		ug/l	5
00201	Alkalinity to pH 8.3	n.a.	N.D.	460		ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	578,000	460		ug/l as CaCO3	1
00228	Sulfate	14808-79-8	13,800	1,500		ug/l	5
00230	Sulfide	18496-25-8	200	54		ug/l	1
02211	NWTPH-Dx water w/Si Gel						
10376	DRO C12-C24 w/Si Gel	n.a.	2,000	29		ug/l	1
10377	HRO C24-C40 w/Si Gel	n.a.	97	67		ug/l	1
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	130	50		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	0.5	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	11/21/2008 22:02	Thomas F McLamb Sr	1
07058	Manganese	SW-846 6010B	1	11/22/2008 19:04	Thomas F McLamb Sr	5
00201	Alkalinity to pH 8.3	SM20 2320 B	1	11/18/2008 17:11	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	11/18/2008 17:11	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	11/18/2008 20:42	Ashley M Heckman	5

Lancaster Laboratories Sample No. WW5526002

Group No. 1119658

MW-9 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 11/10/2008 11:51 by TMK

Account Number: 11255

Submitted: 11/12/2008 09:00

Reported: 11/25/2008 at 13:55

Discard: 12/26/2008

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

QAN09

00230	Sulfide	SM20 4500 S2 D	1	11/17/2008 21:52	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/24/2008 13:45	Diane V Do	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/19/2008 05:01	Marie D John	1
06053	BTEX by 8260B	SW-846 8260B	1	11/20/2008 17:06	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/19/2008 05:01	Marie D John	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/20/2008 17:06	Ginelle L Feister	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/13/2008 14:45	James L Mertz	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/22/2008 16:35	JoElla L Rice	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW5526003

Group No. 1119658

MW-6-FB Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 11/10/2008 12:25 by TMK

Account Number: 11255

Submitted: 11/12/2008 09:00

Chevron

Reported: 11/25/2008 at 13:55

6001 Bollinger Canyon Rd L4310

Discard: 12/26/2008

San Ramon CA 94583

QANFB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/19/2008 05:23	Marie D John	1
06053	BTEX by 8260B	SW-846 8260B	1	11/20/2008 17:30	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/19/2008 05:23	Marie D John	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/20/2008 17:30	Ginelle L Feister	1

Lancaster Laboratories Sample No. WW5526004
Group No. 1119658
MW-4 Grab Water Sample
Facility# 211577
631 Queen Anne Ave N - Seattle, WA

Collected: 11/10/2008 13:40 by TMK

Account Number: 11255

Submitted: 11/12/2008 09:00

Chevron

Reported: 11/25/2008 at 13:55

6001 Bollinger Canyon Rd L4310

Discard: 12/26/2008

San Ramon CA 94583

QAN04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	N.D.	52.2	ug/l	1
07058	Manganese	7439-96-5	1,460	0.84	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	117,000	460	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	220,000	6,000	ug/l	20
00230	Sulfide	18496-25-8	N.D.	54	ug/l	1
02211	NWTPH-Dx water w/Si Gel					
10376	DRO C12-C24 w/Si Gel	n.a.	2,300	29	ug/l	1
10377	HRO C24-C40 w/Si Gel	n.a.	67	67	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	150	50	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	9	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	11/21/2008 22:06	Thomas F McLamb Sr	1
07058	Manganese	SW-846 6010B	1	11/21/2008 22:06	Thomas F McLamb Sr	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	11/18/2008 17:11	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	11/18/2008 17:11	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	11/19/2008 14:56	Ashley M Heckman	20

Lancaster Laboratories Sample No. WW5526004

Group No. 1119658

MW-4 Grab Water Sample

Facility# 211577

631 Queen Anne Ave N - Seattle, WA

Collected: 11/10/2008 13:40 by TMK

Account Number: 11255

Submitted: 11/12/2008 09:00

Chevron

Reported: 11/25/2008 at 13:55

6001 Bollinger Canyon Rd L4310

Discard: 12/26/2008

San Ramon CA 94583

QAN04

00230	Sulfide	SM20 4500 S2 D	1	11/17/2008 21:52	Geraldine C Smith	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/24/2008 13:24	Diane V Do	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/19/2008 01:46	Marie D John	1
06053	BTEX by 8260B	SW-846 8260B	1	11/20/2008 17:55	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/19/2008 01:46	Marie D John	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/20/2008 17:55	Ginelle L Feister	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	11/13/2008 14:45	James L Mertz	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/22/2008 16:35	JoElla L Rice	1

Quality Control Summary

 Client Name: Chevron
 Reported: 11/25/08 at 01:55 PM

Group Number: 1119658

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>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: 083181848001	Sample number(s): 5525999-5526002,5526004							
Iron	N.D.	52.2	ug/l	99		90-112		
Manganese	N.D.	0.84	ug/l	97		90-110		
Batch number: 08322023002A	Sample number(s): 5525999-5526002,5526004							
Sulfide	N.D.	54.	ug/l	101		90-110		
Batch number: 08323020201A	Sample number(s): 5525999-5526002,5526004							
Alkalinity to pH 4.5	N.D.	460.	ug/l as CaCO3	100		98-103		
Batch number: 08323196101B	Sample number(s): 5525999							
Sulfate	N.D.	300.	ug/l	106		89-110		
Batch number: 08323196601B	Sample number(s): 5526000-5526002,5526004							
Sulfate	N.D.	300.	ug/l	107		89-110		
Batch number: 08323B20A	Sample number(s): 5525998-5526004							
TPH by NWTPH-Gx waters	N.D.	50.	ug/l	92	83	75-135	10	30
Batch number: 083260013A	Sample number(s): 5525999-5526002,5526004							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	78	78	61-106	0	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: Z083252AA	Sample number(s): 5526000-5526004							
Benzene	N.D.	0.5	ug/l	101		78-119		
Toluene	N.D.	0.5	ug/l	108		85-115		
Ethylbenzene	N.D.	0.5	ug/l	106		82-119		
Xylene (Total)	N.D.	0.5	ug/l	108		83-113		
Batch number: Z083254AA	Sample number(s): 5525998-5525999							
Benzene	N.D.	0.5	ug/l	99		78-119		
Toluene	N.D.	0.5	ug/l	109		85-115		
Ethylbenzene	N.D.	0.5	ug/l	105		82-119		
Xylene (Total)	N.D.	0.5	ug/l	107		83-113		

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>
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*- Outside of specification

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

Quality Control Summary

Client Name: Chevron Group Number: 1119658
 Reported: 11/25/08 at 01:55 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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Batch number: 083181848001	Sample number(s): 5525999-5526002,5526004 UNSPK: P526706 BKG: P526706								
Iron	95	102	75-125	7	20	127	141	11 (1)	20
Manganese	97	99	75-125	2	20	21.0	21.6	2 (1)	20
Batch number: 08322023002A	Sample number(s): 5525999-5526002,5526004 UNSPK: P526916 BKG: P526916								
Sulfide	75	77	35-169	1	18	1,300	1,300	1	7
Batch number: 08323020201A	Sample number(s): 5525999-5526002,5526004 UNSPK: P525726 BKG: P525726								
Alkalinity to pH 8.3						N.D.	N.D.	0 (1)	4
Alkalinity to pH 4.5	99	99	64-130	0	2	59,200	59,700	1	4
Batch number: 08323196101B	Sample number(s): 5525999 UNSPK: P525570 BKG: P525570								
Sulfate	109		90-110			8,900	8,600	4 (1)	20
Batch number: 08323196601B	Sample number(s): 5526000-5526002,5526004 UNSPK: P526354 BKG: P526354								
Sulfate	116*		90-110			67,000	65,800	2	20
Batch number: 08323B20A	Sample number(s): 5525998-5526004 UNSPK: 5526004								
TPH by NWTPH-Gx waters	96		63-154						
Batch number: Z083252AA	Sample number(s): 5526000-5526004 UNSPK: P526065								
Benzene	104	108	83-128	3	30				
Toluene	110	114	83-127	4	30				
Ethylbenzene	107	110	82-129	3	30				
Xylene (Total)	108	112	82-130	3	30				
Batch number: Z083254AA	Sample number(s): 5525998-5525999 UNSPK: P526066								
Benzene	100	102	83-128	1	30				
Toluene	105	109	83-127	4	30				
Ethylbenzene	104	106	82-129	2	30				
Xylene (Total)	105	107	82-130	2	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: TPH by NWTPH-Gx waters
 Batch number: 08323B20A
 Trifluorotoluene-F

5525998	80
5525999	81
5526000	79
5526001	80
5526002	82
5526003	80
5526004	86
Blank	80
LCS	99

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 11/25/08 at 01:55 PM

Group Number: 1119658

Surrogate Quality Control

LCSD 99
MS 101

Limits: 63-135

Analysis Name: NWTPh-Dx water w/Si Gel
Batch number: 083260013A
Orthoterphenyl

5525999 87
5526000 96
5526001 98
5526002 119
5526004 118
Blank 92
LCS 112
LCSD 113

Limits: 50-150

Analysis Name: BTEX by 8260B
Batch number: Z083252AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5526000	100	97	107	92
5526001	102	97	103	94
5526002	101	96	104	95
5526003	100	95	105	92
5526004	99	96	104	95
Blank	97	96	108	91
LCS	98	99	105	99
MS	99	97	104	98
MSD	100	97	105	98

Limits: 80-116 77-113 80-113 78-113

Analysis Name: BTEX by 8260B
Batch number: Z083254AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5525998	101	98	105	94
5525999	100	96	104	95
Blank	102	99	105	96
LCS	98	97	105	98
MS	101	98	105	98
MSD	99	97	105	97

Limits: 80-116 77-113 80-113 78-113

*- Outside of specification

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

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 17605-2425SAMPLE GROUP

The sample group for this submittal is 1124406. Samples arrived at the laboratory on Friday, December 12, 2008. The PO# for this group is 0015024861 and the release number is SKANCE.


Client DescriptionQA-1-121108 Water Sample
MW-7 Water Sample
MW-18 Water Sample
MW-15 Water SampleLancaster Labs Number5556228
5556229
5556230
5556231ELECTRONIC SAIC
COPY TO
ELECTRONIC SAIC
COPY TO

Attn: Tina King

Attn: Peter Catterall

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300

Respectfully Submitted,



Jenifer E. Hess
Manager



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. **WW5556228**

Group No. **1124406**

QA-1-121108 Water Sample
Facility# 211577
631 Queen Anne Ave N- Seattle, WA
 Collected: 12/11/2008 08:00

Account Number: 11255

Submitted: 12/12/2008 10:15
 Reported: 01/07/2009 at 04:10
 Discard: 02/07/2009

Chevron
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

QAQA1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08273	NWTPH-Gx water C7-C12						
01645	NWTPH-Gx water C7-C12	n.a.	N.D.	50		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12/23/2008 00:35	Kathie J Bowman	1
06053	BTEX by 8260B	SW-846 8260B	1	12/20/2008 06:07	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/23/2008 00:35	Kathie J Bowman	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/20/2008 06:07	Michael A Ziegler	1



Analysis Report

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Lancaster Laboratories Sample No. **WW5556229**

Group No. **1124406**

MW-7 Water Sample

Facility# **211577**

631 Queen Anne Ave N- Seattle, WA

Collected: 12/11/2008 09:40 by TK

Account Number: 11255

Submitted: 12/12/2008 10:15

Chevron

Reported: 01/07/2009 at 04:10

6001 Bollinger Canyon Rd L4310

Discard: 02/07/2009

San Ramon CA 94583

QAMW7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01754	Iron	7439-89-6	5,470	52.2		ug/l	1
07058	Manganese	7439-96-5	527	0.84		ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460		ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	193,000	460		ug/l as CaCO3	1
00228	Sulfate	14808-79-8	109,000	3,000		ug/l	10
00230	Sulfide	18496-25-8	N.D.	54		ug/l	1
02211	NWTPH-Dx water w/Si Gel						
10376	DRO C12-C24 w/Si Gel	n.a.	71	32		ug/l	1
10377	HRO C24-C40 w/Si Gel	n.a.	N.D.	74		ug/l	1
08273	NWTPH-Gx water C7-C12						
01645	NWTPH-Gx water C7-C12	n.a.	370	50		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	12/27/2008 02:02	Choon Y Tian	1
07058	Manganese	SW-846 6010B	1	12/27/2008 02:02	Choon Y Tian	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	12/18/2008 15:32	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	12/18/2008 15:32	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	12/30/2008 22:40	Ashley M Heckman	10

Lancaster Laboratories Sample No. WW5556229

Group No. 1124406

MW-7 Water Sample

Facility# 211577

631 Queen Anne Ave N- Seattle, WA

Collected: 12/11/2008 09:40 by TK

Account Number: 11255

Submitted: 12/12/2008 10:15

Chevron

Reported: 01/07/2009 at 04:10

6001 Bollinger Canyon Rd L4310

Discard: 02/07/2009

San Ramon CA 94583

QAMW7

00230	Sulfide	SM20 4500 S2 D	1	12/15/2008 22:43	Geraldine C Smith	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	12/19/2008 07:24	Diane V Do	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12/23/2008 01:40	Kathie J Bowman	1
06053	BTEX by 8260B	SW-846 8260B	1	12/20/2008 06:31	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/23/2008 01:40	Kathie J Bowman	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/20/2008 06:31	Michael A Ziegler	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	12/16/2008 10:10	Denise K Connors	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	12/18/2008 04:00	Tracy L Schickel	1

Lancaster Laboratories Sample No. WW5556230
Group No. 1124406
MW-18 Water Sample
Facility# 211577
631 Queen Anne Ave N- Seattle, WA

Collected: 12/11/2008 09:53 by TK

Account Number: 11255

Submitted: 12/12/2008 10:15

Chevron

Reported: 01/07/2009 at 04:10

6001 Bollinger Canyon Rd L4310

Discard: 02/07/2009

San Ramon CA 94583

QAM18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01754	Iron	7439-89-6	3,170	52.2	ug/l	1
07058	Manganese	7439-96-5	4,300	0.84	ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460	ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	266,000	460	ug/l as CaCO3	1
00228	Sulfate	14808-79-8	55,300	1,500	ug/l	5
00230	Sulfide	18496-25-8	N.D.	54	ug/l	1
02211	NWTPH-Dx water w/Si Gel					
10376	DRO C12-C24 w/Si Gel	n.a.	1,900	29	ug/l	1
10377	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	ug/l	1
08273	NWTPH-Gx water C7-C12					
01645	NWTPH-Gx water C7-C12	n.a.	790	50	ug/l	1
06053	BTEX by 8260B					
05401	Benzene	71-43-2	32	0.5	ug/l	1
05407	Toluene	108-88-3	0.9	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	1	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	1	0.5	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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	12/27/2008 02:05	Choon Y Tian	1
07058	Manganese	SW-846 6010B	1	12/27/2008 02:05	Choon Y Tian	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	12/18/2008 15:32	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	12/18/2008 15:32	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	12/26/2008 14:36	Ashley M Heckman	5

Lancaster Laboratories Sample No. WW5556230

Group No. 1124406

MW-18 Water Sample

Facility# 211577

631 Queen Anne Ave N- Seattle, WA

Collected: 12/11/2008 09:53 by TK

Account Number: 11255

Submitted: 12/12/2008 10:15

Reported: 01/07/2009 at 04:10

Discard: 02/07/2009

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

QAM18

00230	Sulfide	SM20 4500 S2 D	1	12/15/2008 22:43	Geraldine C Smith	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	12/19/2008 07:44	Diane V Do	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12/23/2008 02:02	Kathie J Bowman	1
06053	BTEX by 8260B	SW-846 8260B	1	12/20/2008 06:55	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/23/2008 02:02	Kathie J Bowman	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/20/2008 06:55	Michael A Ziegler	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	12/16/2008 10:10	Denise K Connors	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	12/18/2008 04:00	Tracy L Schickel	1



Analysis Report

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Page 1 of 2

Lancaster Laboratories Sample No. **WW5556231**

Group No. **1124406**

MW-15 Water Sample

Facility# **211577**

631 Queen Anne Ave N- Seattle, WA

Collected: 12/11/2008 10:45 by TK

Account Number: 11255

Submitted: 12/12/2008 10:15

Chevron

Reported: 01/07/2009 at 04:10

6001 Bollinger Canyon Rd L4310

Discard: 02/07/2009

San Ramon CA 94583

QAM15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01754	Iron	7439-89-6	116	52.2		ug/l	1
07058	Manganese	7439-96-5	95.5	0.84		ug/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460		ug/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	44,400	460		ug/l as CaCO3	1
00228	Sulfate	14808-79-8	25,400	1,500		ug/l	5
00230	Sulfide	18496-25-8	N.D.	54		ug/l	1
02211	NWTPH-Dx water w/Si Gel						
10376	DRO C12-C24 w/Si Gel	n.a.	N.D.	28		ug/l	1
10377	HRO C24-C40 w/Si Gel	n.a.	N.D.	66		ug/l	1
08273	NWTPH-Gx water C7-C12						
01645	NWTPH-Gx water C7-C12	n.a.	N.D.	50		ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		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	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01754	Iron	SW-846 6010B	1	12/27/2008 02:09	Choon Y Tian	1
07058	Manganese	SW-846 6010B	1	12/27/2008 02:09	Choon Y Tian	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	12/18/2008 15:32	Geraldine C Smith	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	12/18/2008 15:32	Geraldine C Smith	1
00228	Sulfate	EPA 300.0	1	12/26/2008 14:53	Ashley M Heckman	5

Lancaster Laboratories Sample No. WW5556231

Group No. 1124406

MW-15 Water Sample

Facility# 211577

631 Queen Anne Ave N- Seattle, WA

Collected: 12/11/2008 10:45 by TK

Account Number: 11255

Submitted: 12/12/2008 10:15

Chevron

Reported: 01/07/2009 at 04:10

6001 Bollinger Canyon Rd L4310

Discard: 02/07/2009

San Ramon CA 94583

QAM15

00230	Sulfide	SM20 4500 S2 D	1	12/15/2008 22:43	Geraldine C Smith	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	12/19/2008 08:05	Diane V Do	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12/23/2008 02:46	Kathie J Bowman	1
06053	BTEX by 8260B	SW-846 8260B	1	12/20/2008 07:19	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/23/2008 02:46	Kathie J Bowman	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/20/2008 07:19	Michael A Ziegler	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	12/16/2008 10:10	Denise K Connors	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	12/18/2008 04:00	Tracy L Schickel	1

Quality Control Summary

 Client Name: Chevron
 Reported: 01/07/09 at 04:10 AM

Group Number: 1124406

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>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: 08350023002A Sulfide	Sample number(s): N.D.	54.	5556229-5556231 ug/l	100		90-110		
Batch number: 083501848003 Iron Manganese	Sample number(s): N.D. N.D.	52.2 0.84	5556229-5556231 ug/l ug/l	101 98		90-112 90-110		
Batch number: 083520037A DRO C12-C24 w/Si Gel HRO C24-C40 w/Si Gel	Sample number(s): N.D. N.D.	30. 70.	5556229-5556231 ug/l ug/l	84		61-106		
Batch number: 08353020201A Alkalinity to pH 4.5	Sample number(s): N.D.	460.	5556229-5556231 ug/l as CaCO3	100		98-103		
Batch number: 08354A20A NWTPH-Gx water C7-C12	Sample number(s): N.D.	50.	5556228-5556231 ug/l	100	100	75-135	0	30
Batch number: 08361130601A Sulfate	Sample number(s): N.D.	300.	5556229-5556231 ug/l	100		89-110		
Batch number: D083543AA Benzene Toluene Ethylbenzene Xylene (Total)	Sample number(s): N.D. N.D. N.D. N.D.	0.5 0.5 0.5 0.5	5556228-5556231 ug/l ug/l ug/l ug/l	98 107 98 103		78-119 85-115 82-119 83-113		

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: 08350023002A Sulfide	Sample number(s): 98	97	5556229-5556231 35-169	1	18	UNSPK: P554239 1,900	BKG: P554259 1,900	0	7
Batch number: 083501848003 Iron Manganese	Sample number(s): 205 (2) 90	127 (2) 92	5556229-5556231 75-125 75-125	3 1	20 20	UNSPK: P556340 26,900 839	BKG: P556340 26,400 827	2 1	20 20
Batch number: 083520037A DRO C12-C24 w/Si Gel	Sample number(s): 89	94	5556229-5556231 60-120	5	20	UNSPK: P556336			

*- Outside of specification

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

Quality Control Summary

 Client Name: Chevron
 Reported: 01/07/09 at 04:10 AM

Group Number: 1124406

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: 08353020201A	Sample number(s): 5556229-5556231 UNSPK: P555585 BKG: P555585								
Alkalinity to pH 8.3						N.D.	N.D.	0 (1)	4
Alkalinity to pH 4.5	99	98	64-130	0	2	199,000	199,000	0	4
Batch number: 08354A20A	Sample number(s): 5556228-5556231 UNSPK: P556223								
NWTPH-Gx water C7-C12	100		63-154						
Batch number: 08361130601A	Sample number(s): 5556229-5556231 UNSPK: P556336 BKG: P556336								
Sulfate	103		90-110			109,000	109,000	0	20
Batch number: D083543AA	Sample number(s): 5556228-5556231 UNSPK: P559368								
Benzene	93	88	83-128	5	30				
Toluene	96	93	83-127	3	30				
Ethylbenzene	91	87	82-129	5	30				
Xylene (Total)	95	91	82-130	4	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: NWTPH-Dx water w/Si Gel
 Batch number: 083520037A
 Orthoterphenyl

5556229	96
5556230	136
5556231	88
Blank	103
LCS	114
MS	120
MSD	118

Limits: 50-150

 Analysis Name: NWTPH-Gx water C7-C12
 Batch number: 08354A20A
 Trifluorotoluene-F

5556228	88
5556229	95
5556230	112
5556231	89
Blank	86
LCS	127
LCSD	124
MS	131

Limits: 63-135

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 01/07/09 at 04:10 AM

Group Number: 1124406

Surrogate Quality Control

Analysis Name: BTEX by 8260B
Batch number: D083543AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5556228	95	94	94	95
5556229	95	95	95	95
5556230	91	92	93	98
5556231	97	97	95	95
Blank	91	90	93	93
LCS	90	97	94	100
MS	92	93	94	99
MSD	94	100	96	102
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

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

Chevron Northwest Region Analysis Request/Chain of Custody



221112
 For Lancaster Laboratories use only
 Acct. #: 11255 Sample #: 5556228-31 SCR#: 69274

WBS # NWRTB-211577-D-OML

Grp # 1124406

Facility #: <u>21-1577</u> Site Address: <u>631 Queen Anne Ave N, Seattle, WA</u> Chevron PM: <u>Olivia Skunce</u> Lead Consultant: <u>SAIC</u> Consultant/Office: <u>SAIC - Borell, WA</u> Consultant Prj. Mgr.: <u>Peter Catterrell</u> Consultant Phone #: <u>425-482-3321</u> Fax #: <u>425-485-5566</u> Sampler: <u>Time King, Stephanie Dunham</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____				Matrix <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Air		Analyses Requested Preservation Codes # 14 # 8260 Naphth # 8260 # 8260 full scan Oxygenates NTPH G NTPH D Extended Rng. Silica Gel Cleanup Lead Total Diss. Method Volatile Swfate NTPH HCHOID quantification Alkalinity Total Iron Total Manganese Sulfide										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input type="checkbox"/> Run ___ oxy s on all hits											
Sample Identification		Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	8260	8260 full scan	Oxygenates	NTPH G	NTPH D	Extended Rng.	Silica Gel Cleanup	Lead Total	Diss. Method	Volatile Swfate	NTPH HCHOID	quantification	Alkalinity	Total Iron	Total Manganese	Sulfide	Comments / Remarks
QA-1-121108		12/11/08	0800				X			4	X			X													
MW-7			0940				X			12	X			X													
MW-18			0953				X			12	X			X													
MW-15			1045				X			12	X			X													

Time King

Turnaround Time Requested (TAT) (please circle) STD. TAT 72 hour 48 hour 24 hour 4 day 5 day	Relinquished by: <u>K. J. [Signature]</u>	Date: <u>12-9-08</u>	Time: <u>0745</u>	Received by:	Date:	Time:
	Relinquished by: <u>Time King</u>	Date: <u>12/11/08</u>	Time: <u>1330</u>	Received by:	Date:	Time:
Data Package Options (please circle if required) QC Summary Type I - Full Type VI (Raw Data) Disk / EDD WIP (RWQCB) Standard Format Disk _____ Other.	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	Relinquished by Commercial Carrier: UPS <u>FedEx</u> Other: _____ Temperature Upon Receipt: <u>2.6-2.9 c°</u>	Received by: <u>Tebiana Kershey</u>	Date: <u>12/12/08</u>	Time: <u>1015</u>	Custody Seals Intact? <u>Yes</u> No	

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.

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

November 26, 2008

Peter Catterall
SAIC - Bothell
18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

RE: Chevron #21-1577

Enclosed are the results of analyses for samples received by the laboratory on 11/06/08 17:40.
The following list is a summary of the Work Orders contained in this report, generated on 11/26/08
16:25.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BRK0072	Chevron #21-1577	211577

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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SAIC - Bothell

18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

11/26/08 16:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-16	BRK0072-01	Water	11/06/08 09:15	11/06/08 17:40
MW-26	BRK0072-02	Water	11/06/08 11:15	11/06/08 17:40
DPE-8	BRK0072-03	Water	11/06/08 12:55	11/06/08 17:40
MW-21	BRK0072-04	Water	11/06/08 09:50	11/06/08 17:40
MW-30	BRK0072-05	Water	11/06/08 13:00	11/06/08 17:40
MW-17	BRK0072-06	Water	11/06/08 11:20	11/06/08 17:40
DUP-1-110608	BRK0072-07	Water	11/06/08 17:00	11/06/08 17:40
DUP-2-110608	BRK0072-08	Water	11/06/08 17:00	11/06/08 17:40
MW-34	BRK0072-09	Water	11/06/08 14:40	11/06/08 17:40

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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SAIC - Bothell

18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

11/26/08 16:25

Analytical Case Narrative

TestAmerica - Seattle, WA

BRK0072

SAMPLE RECEIPT

The samples were received 11/06/08 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 5.9 degrees Celsius.

PREPARATIONS AND ANALYSIS

Anions by EPA Method 300.0

Sample BRK0072-09 (MW-34) was analyzed past the method specified holding time for the required dilution. Both data sets are included.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of the report.

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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SAIC - Bothell 18912 North Creek Parkway South, Suite 101 Bothell, WA/USA 98011	Project Name: Chevron #21-1577 Project Number: 211577 Project Manager: Peter Catterall	Report Created: 11/26/08 16:25
--	---	-----------------------------------

Anions by EPA Method 300.0
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0072-01 (MW-16)		Water			Sampled: 11/06/08 09:15					
Nitrate-Nitrogen	EPA 300.0	5.58	----	0.200	mg/l as N	1x	8K10002	11/07/08 16:24	11/07/08 16:55	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	
BRK0072-02 (MW-26)		Water			Sampled: 11/06/08 11:15					
Nitrate-Nitrogen	EPA 300.0	0.800	----	0.200	mg/l as N	1x	8K10002	11/07/08 16:24	11/07/08 17:11	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	
BRK0072-03 (DPE-8)		Water			Sampled: 11/06/08 12:55					
Nitrate-Nitrogen	EPA 300.0	ND	----	0.200	mg/l as N	1x	8K10002	11/07/08 16:24	11/07/08 17:27	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	
BRK0072-04 (MW-21)		Water			Sampled: 11/06/08 09:50					
Nitrate-Nitrogen	EPA 300.0	ND	----	0.200	mg/l as N	1x	8K10002	11/07/08 16:24	11/07/08 17:42	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	
BRK0072-05 (MW-30)		Water			Sampled: 11/06/08 13:00					
Nitrate-Nitrogen	EPA 300.0	4.11	----	0.200	mg/l as N	1x	8K10002	11/07/08 16:24	11/07/08 17:58	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	
BRK0072-06 (MW-17)		Water			Sampled: 11/06/08 11:20					
Nitrate-Nitrogen	EPA 300.0	1.50	----	0.200	mg/l as N	1x	8K10002	11/07/08 16:24	11/07/08 18:14	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	
BRK0072-07 (DUP-1-110608)		Water			Sampled: 11/06/08 17:00					
Nitrate-Nitrogen	EPA 300.0	4.09	----	0.200	mg/l as N	1x	8K10002	11/07/08 16:24	11/07/08 18:30	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	
BRK0072-08 (DUP-2-110608)		Water			Sampled: 11/06/08 17:00					
Nitrate-Nitrogen	EPA 300.0	1.09	----	0.200	mg/l as N	1x	8K10002	11/07/08 16:24	11/07/08 18:45	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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SAIC - Bothell

18912 North Creek Parkway South, Suite 101
 Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

11/26/08 16:25

Anions by EPA Method 300.0

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0072-09 (MW-34)		Water			Sampled: 11/06/08 14:40					
Nitrate-Nitrogen	EPA 300.0	15.9	----	0.200	mg/l as N	1x	8K10002	11/07/08 16:24	11/07/08 19:01	E
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	
BRK0072-09RE1 (MW-34)		Water			Sampled: 11/06/08 14:40					
Nitrate-Nitrogen	EPA 300.0	14.5	----	0.400	mg/l as N	2x	8K10002	11/07/08 16:24	11/10/08 19:08	H2

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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SAIC - Bothell

18912 North Creek Parkway South, Suite 101
 Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

11/26/08 16:25

General Chemistry Parameters

TestAmerica Nashville

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0072-01RE1 (MW-16)		Water			Sampled: 11/06/08 09:15					
Iron, ferrous	SM 3500Fe B	ND	----	0.100	mg/L	1x	8112486	11/16/08 01:37	11/15/08 00:41	HTI
BRK0072-02RE1 (MW-26)		Water			Sampled: 11/06/08 11:15					
Iron, ferrous	SM 3500Fe B	0.275	----	0.100	mg/L	1x	8112486	11/16/08 01:37	11/15/08 00:41	HTI
BRK0072-03RE2 (DPE-8)		Water			Sampled: 11/06/08 12:55					
Iron, ferrous	SM 3500Fe B	4.62	----	1.00	mg/L	10x	8112487	11/16/08 01:38	11/20/08 19:52	HTI
BRK0072-04RE1 (MW-21)		Water			Sampled: 11/06/08 09:50					
Iron, ferrous	SM 3500Fe B	0.216	----	0.100	mg/L	1x	8112486	11/16/08 01:37	11/15/08 00:41	HTI
BRK0072-05RE1 (MW-30)		Water			Sampled: 11/06/08 13:00					
Iron, ferrous	SM 3500Fe B	ND	----	0.100	mg/L	1x	8112486	11/16/08 01:37	11/15/08 00:41	HTI
BRK0072-06RE1 (MW-17)		Water			Sampled: 11/06/08 11:20					
Iron, ferrous	SM 3500Fe B	ND	----	0.100	mg/L	1x	8112486	11/16/08 01:37	11/15/08 00:41	HTI
BRK0072-07RE1 (DUP-1-110608)		Water			Sampled: 11/06/08 17:00					
Iron, ferrous	SM 3500Fe B	ND	----	0.100	mg/L	1x	8112486	11/16/08 01:37	11/15/08 00:41	HTI
BRK0072-08RE1 (DUP-2-110608)		Water			Sampled: 11/06/08 17:00					
Iron, ferrous	SM 3500Fe B	ND	----	0.100	mg/L	1x	8112486	11/16/08 01:37	11/15/08 00:41	HTI
BRK0072-09RE1 (MW-34)		Water			Sampled: 11/06/08 14:40					
Iron, ferrous	SM 3500Fe B	ND	----	0.100	mg/L	1x	8112486	11/16/08 01:37	11/15/08 00:41	HTI

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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SAIC - Bothell 18912 North Creek Parkway South, Suite 101 Bothell, WA/USA 98011	Project Name: Chevron #21-1577 Project Number: 211577 Project Manager: Peter Catterall	Report Created: 11/26/08 16:25
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Anions by EPA Method 300.0 - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8K10002 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K10002-BLK1)										Extracted: 11/07/08 06:24				
Nitrate-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	--	--	--	--	--	--	11/07/08 19:48	
Nitrite-Nitrogen	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
LCS (8K10002-BS1)										Extracted: 11/07/08 06:24				
Nitrate-Nitrogen	EPA 300.0	1.03	---	0.200	mg/l as N	1x	--	1.00	103%	(90-110)	--	--	11/08/08 09:14	
Nitrite-Nitrogen	"	0.970	---	0.200	"	"	--	"	97.0%	"	--	--	"	
Duplicate (8K10002-DUP1)										QC Source: BRK0072-01 Extracted: 11/07/08 06:24				
Nitrite-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	ND	--	--	--	NR (25)		11/07/08 20:35	
Nitrate-Nitrogen	"	5.62	---	0.200	"	"	5.58	--	--	--	0.714%	"	"	
Duplicate (8K10002-DUP2)										QC Source: BRK0079-02 Extracted: 11/07/08 06:24				
Nitrite-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	ND	--	--	--	NR (25)		11/07/08 21:53	
Nitrate-Nitrogen	"	0.480	---	0.200	"	"	0.490	--	--	--	2.06%	"	"	
Matrix Spike (8K10002-MS1)										QC Source: BRK0072-06 Extracted: 11/07/08 06:24				
Nitrate-Nitrogen	EPA 300.0	2.36	---	0.200	mg/l as N	1x	1.50	1.00	86.0%	(59-126)	--	--	11/08/08 09:30	
Nitrite-Nitrogen	"	1.08	---	0.200	"	"	0.120	"	96.0%	(69-137)	--	--	"	
Matrix Spike (8K10002-MS2)										QC Source: BRK0079-02 Extracted: 11/07/08 06:24				
Nitrate-Nitrogen	EPA 300.0	1.37	---	0.200	mg/l as N	1x	0.490	1.00	88.0%	(59-126)	--	--	11/07/08 21:38	
Nitrite-Nitrogen	"	1.02	---	0.200	"	"	ND	"	102%	(69-137)	--	--	"	

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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SAIC - Bothell 18912 North Creek Parkway South, Suite 101 Bothell, WA/USA 98011	Project Name: Chevron #21-1577 Project Number: 211577 Project Manager: Peter Catterall	Report Created: 11/26/08 16:25
--	---	-----------------------------------

General Chemistry Parameters - Laboratory Quality Control Results
 TestAmerica Nashville

QC Batch: 8112486 Water Preparation Method: NO PREP

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (8112486-BLK1)													Extracted: 11/16/08 01:37			
Iron, ferrous	SM 3500Fe B	ND	---	0.100	mg/L	1x	--	--	--	--	--	--	11/15/08 00:41			
LCS (8112486-BS1)													Extracted: 11/16/08 01:37			
Iron, ferrous	SM 3500Fe B	1.04	---		ug/mL	1x	--	1.00	104%	(80-120)	--	--	11/15/08 00:41			
Duplicate (8112486-DUP1)													QC Source: NRK0789-01RE1		Extracted: 11/16/08 01:37	
Iron, ferrous	SM 3500Fe B	ND	---	0.100	mg/L	1x	ND	--	--	--	NR (20)		11/15/08 00:41			
Matrix Spike (8112486-MS1)													QC Source: BRK0072-01		Extracted: 11/16/08 01:37	
Iron, ferrous	SM 3500Fe B	1.01	---		ug/mL	1x	0.0220	1.00	99%	(75-125)	--	--	11/15/08 00:41			
Matrix Spike Dup (8112486-MSD1)													QC Source: BRK0072-01		Extracted: 11/16/08 01:37	
Iron, ferrous	SM 3500Fe B	1.02	---		ug/mL	1x	0.0220	1.00	100%	(75-125)	1%	(20)	11/15/08 00:41			

QC Batch: 8112487 Water Preparation Method: NO PREP

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (8112487-BLK1)													Extracted: 11/16/08 01:38			
Iron, ferrous	SM 3500Fe B	ND	---	0.100	mg/L	1x	--	--	--	--	--	--	11/20/08 19:52			
LCS (8112487-BS1)													Extracted: 11/16/08 01:38			
Iron, ferrous	SM 3500Fe B	1.03	---		ug/mL	1x	--	1.00	103%	(80-120)	--	--	11/20/08 19:52			
LCS Dup (8112487-BSD1)													Extracted: 11/16/08 01:38			
Iron, ferrous	SM 3500Fe B	1.02	---		ug/mL	1x	--	1.00	102%	(80-120)	1%	(20)	11/20/08 19:52			
Duplicate (8112487-DUP1)													QC Source: BRK0072-03		Extracted: 11/16/08 01:38	
Iron, ferrous	SM 3500Fe B	4.55	---	1.00	mg/L	10x	4.62	--	--	--	2%	(20)	11/20/08 19:52			
Matrix Spike (8112487-MS1)													QC Source: BRK0072-03		Extracted: 11/16/08 01:38	
Iron, ferrous	SM 3500Fe B	0.00	---	TIC	ug/mL	1x	4.62	1.00	-462%	(75-125)	--	--	11/20/08 19:52			
Matrix Spike Dup (8112487-MSD1)													QC Source: BRK0072-03		Extracted: 11/16/08 01:38	

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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SAIC - Bothell 18912 North Creek Parkway South, Suite 101 Bothell, WA/USA 98011	Project Name: Chevron #21-1577 Project Number: 211577 Project Manager: Peter Catterall	Report Created: 11/26/08 16:25
--	---	-----------------------------------

General Chemistry Parameters - Laboratory Quality Control Results
 TestAmerica Nashville

QC Batch: 8112487 Water Preparation Method: NO PREP

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (8112487-MSD1)			QC Source: BRK0072-03			Extracted: 11/16/08 01:38								
Iron, ferrous	SM 3500Fe B	0.00	---	TIC	ug/mL	1x	4.62	1.00	-462%	(75-125)	(20)	11/20/08 19:52		

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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SAIC - Bothell

18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

11/26/08 16:25

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
EPA 300.0	Water	X	X

Subcontracted Laboratories

TestAmerica Nashville NELAC Cert #E87358, Washington Cert #C1712

2960 Foster Creighton Drive - Nashville, TN 37204

Method Performed: SM 3500Fe B

Samples: BRK0072-01RE1, BRK0072-02RE1, BRK0072-03RE2, BRK0072-04RE1, BRK0072-05RE1,
BRK0072-06RE1, BRK0072-07RE1, BRK0072-08RE1, BRK0072-09RE1

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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SAIC - Bothell

18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

11/26/08 16:25

Notes and Definitions

Report Specific Notes:

- E - Concentration exceeds the calibration range and therefore result is semi-quantitative.
- H2 - Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
- HTI - The holding time for this test is immediate. The laboratory measurement, therefore, may not be suitable for compliance purposes.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

WBS# NDRTB-21577-D-DML

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: BRK0072

CLIENT: SAIC / Chevron		INVOICE TO: Chevron				TURNAROUND REQUEST			
REPORT TO: Peter Catterall						in Business Days *			
ADDRESS: 18412 North Creek Parkway, Ste 101 Bothell, WA 98011		P.O. NUMBER:				<input checked="" type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1			
PHONE: 425-482-3321 FAX: 425-485-5566		PRESERVATIVE				Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses STD.			
PROJECT NAME: 21-1577 Queen Anna		REQUESTED ANALYSES				OTHER Specify:			
PROJECT NUMBER:		H ₂ Sulf Nitrate Phenols Iron				* Turnaround Requests less than standard may incur Rush Charges.			
SAMPLED BY: TMK/SAD/GC/HL						MATRIX (W, S, O) # OF CONT. LOCATION/ COMMENTS TA WO ID			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Nitrate	Nitrate	Phenols	Iron				
1 MW-16	11/6/08/0915	X	X	X		W	2		-01
2 MW-26	11/6/08/1115	X	X	X		W	2		-02
3 DPE-8	11/6/08/1255	X	X	X		W	2		-03
4 MW-21	11/6/08/0950	X	X	X		W	2		-04
5 MW-30	11/06/08/1300	X	X	X		W	2		-05
6 MW-17	11/06/08/1120	X	X	X		W	2		-06
7 DUP-1-110608	11/06/08	X	X	X		W	2		-07
8 DUP-2-110608	11/06/08	X	X	X		W	2		-08
9 MW-34	11/06/08/1140	X	X	X					-09
10 MW-30 FB	11/06/08	X	X	X					-09
RELEASED BY: <i>Francisco Lung Jr</i>	FIRM: SAIC	DATE: 11/6/08	TIME: 1740	RECEIVED BY: <i>Francisco Lung Jr</i>	FIRM: TH-SEA	DATE: 11/6/08	TIME: 1740		
ADDITIONAL REMARKS:					TEMP: w/o 5.9°C		PAGE OF		

TAT: _____

Paperwork to PM - Date: 11/6/08 Time: 1730

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: 330

Date: 11/6/08

Date: 11:07

Date: 11:07

Work Order No. BRK0072

Time: 1740

Time: 1511

Time: 1900

Client: Gaic

Initials: FL

Initials: CW

Initials: CW

Project: duvion 21-1327

Container Type:

COC Seals:

Packing Material:

Cooler _____ Ship Container _____ Sign By _____

_____ Bubble Bags _____ Styrofoam

_____ Box _____ On Bottles _____ Date _____

_____ Foam Packs

_____ None/Other _____ None

None/Other _____

Refrigerant:

Received Via: Bill#

FL Gel Ice Pack _____

_____ Fed Ex Client

Loose Ice _____

_____ UPS TA Courier

_____ None/Other _____

_____ DHL admission Mid Valley

_____ Senvoy _____ TDP

_____ GS _____ Other _____

Cooler Temperature (IR): 5.9 °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? _____ °C or NA

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____ Metals Preserved? Y or N or NA

Provided by TA? or N _____ Client QAPP Preserved? Y or N or NA

Correct Type? or N _____ Adequate Volume? or N _____
(for tests requested)

#Containers match COC? or N _____ Water VOAs: Headspace? Y or N or NA

IDs/time/date match COC? or N _____ Comments: _____

Hold Times in hold? Y or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete? Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____

Has client been contacted regarding non-conformances? _____

Y or N

Y or N If Y, _____ / _____
Date Time

PM Initials: du Date: 11/7/08 Time: _____

November 20, 2008

Peter Catterall
SAIC - Bothell
18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

RE: Chevron #21-1577

Enclosed are the results of analyses for samples received by the laboratory on 11/07/08 16:40.
The following list is a summary of the Work Orders contained in this report, generated on 11/20/08
13:41.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BRK0079	Chevron #21-1577	211577

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



SAIC - Bothell

18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

11/20/08 13:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-7	BRK0079-01	Water	11/07/08 13:05	11/07/08 16:40
MW-15	BRK0079-02	Water	11/07/08 14:45	11/07/08 16:40
MW-18	BRK0079-03	Water	11/07/08 13:45	11/07/08 16:40

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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SAIC - Bothell 18912 North Creek Parkway South, Suite 101 Bothell, WA/USA 98011	Project Name: Chevron #21-1577 Project Number: 211577 Project Manager: Peter Catterall	Report Created: 11/20/08 13:41
--	---	-----------------------------------

Anions by EPA Method 300.0
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0079-01 (MW-7)		Water			Sampled: 11/07/08 13:05					
Nitrate-Nitrogen	EPA 300.0	0.840	----	0.200	mg/l as N	1x	8K10002	11/07/08 16:24	11/07/08 20:51	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	
BRK0079-02 (MW-15)		Water			Sampled: 11/07/08 14:45					
Nitrate-Nitrogen	EPA 300.0	0.490	----	0.200	mg/l as N	1x	8K10002	11/07/08 16:24	11/07/08 21:22	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	
BRK0079-03 (MW-18)		Water			Sampled: 11/07/08 13:45					
Nitrate-Nitrogen	EPA 300.0	ND	----	0.200	mg/l as N	1x	8K10002	11/07/08 16:24	11/07/08 21:06	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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SAIC - Bothell 18912 North Creek Parkway South, Suite 101 Bothell, WA/USA 98011	Project Name:	Chevron #21-1577	Report Created:
	Project Number:	211577	11/20/08 13:41
	Project Manager:	Peter Catterall	

General Chemistry Parameters
 TestAmerica Nashville

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0079-01RE1 (MW-7)		Water			Sampled: 11/07/08 13:05					
Iron, ferrous	SM 3500Fe B	ND	----	0.100	mg/L	1x	8112486	11/16/08 01:37	11/15/08 00:41	HTI
BRK0079-02RE1 (MW-15)		Water			Sampled: 11/07/08 14:45					
Iron, ferrous	SM 3500Fe B	ND	----	0.100	mg/L	1x	8112486	11/16/08 01:37	11/15/08 00:41	HTI
BRK0079-03RE1 (MW-18)		Water			Sampled: 11/07/08 13:45					
Iron, ferrous	SM 3500Fe B	0.233	----	0.100	mg/L	1x	8112486	11/16/08 01:37	11/15/08 00:41	HTI

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



SAIC - Bothell

18912 North Creek Parkway South, Suite 101
 Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

11/20/08 13:41

Anions by EPA Method 300.0 - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 8K10002

Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes					
Blank (8K10002-BLK1)										Extracted: 11/07/08 06:24									
Nitrite-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	--	--	--	--	--	--	11/07/08 19:48						
Nitrate-Nitrogen	"	ND	---	0.200	"	"	--	--	--	--	--	--	"						
LCS (8K10002-BS1)										Extracted: 11/07/08 06:24									
Nitrate-Nitrogen	EPA 300.0	1.03	---	0.200	mg/l as N	1x	--	1.00	103%	(90-110)	--	--	11/08/08 09:14						
Nitrite-Nitrogen	"	0.970	---	0.200	"	"	--	"	97.0%	"	--	--	"						
Duplicate (8K10002-DUP1)										QC Source: BRK0072-01					Extracted: 11/07/08 06:24				
Nitrite-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	ND	--	--	--	NR (25)		11/07/08 20:35						
Nitrate-Nitrogen	"	5.62	---	0.200	"	"	5.58	--	--	--	0.714%	"	"						
Duplicate (8K10002-DUP2)										QC Source: BRK0079-02					Extracted: 11/07/08 06:24				
Nitrate-Nitrogen	EPA 300.0	0.480	---	0.200	mg/l as N	1x	0.490	--	--	--	2.06% (25)		11/07/08 21:53						
Nitrite-Nitrogen	"	ND	---	0.200	"	"	ND	--	--	--	NR	"	"						
Matrix Spike (8K10002-MS1)										QC Source: BRK0072-06					Extracted: 11/07/08 06:24				
Nitrite-Nitrogen	EPA 300.0	1.08	---	0.200	mg/l as N	1x	0.120	1.00	96.0%	(69-137)	--	--	11/08/08 09:30						
Nitrate-Nitrogen	"	2.36	---	0.200	"	"	1.50	"	86.0%	(59-126)	--	--	"						
Matrix Spike (8K10002-MS2)										QC Source: BRK0079-02					Extracted: 11/07/08 06:24				
Nitrite-Nitrogen	EPA 300.0	1.02	---	0.200	mg/l as N	1x	ND	1.00	102%	(69-137)	--	--	11/07/08 21:38						
Nitrate-Nitrogen	"	1.37	---	0.200	"	"	0.490	"	88.0%	(59-126)	--	--	"						

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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SAIC - Bothell 18912 North Creek Parkway South, Suite 101 Bothell, WA/USA 98011	Project Name: Chevron #21-1577 Project Number: 211577 Project Manager: Peter Catterall	Report Created: 11/20/08 13:41
--	---	-----------------------------------

General Chemistry Parameters - Laboratory Quality Control Results
 TestAmerica Nashville

QC Batch: 8112486 Water Preparation Method: NO PREP

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8112486-BLK1)										Extracted: 11/16/08 01:37				
Iron, ferrous	SM 3500Fe B	ND	---	0.100	mg/L	1x	--	--	--	--	--	--	11/15/08 00:41	HTI
LCS (8112486-BS1)										Extracted: 11/16/08 01:37				
Iron, ferrous	SM 3500Fe B	1.04	---		ug/mL	1x	--	1.00	104%	(80-120)	--	--	11/15/08 00:41	HTI
Duplicate (8112486-DUP1)										QC Source: BRK0079-01		Extracted: 11/16/08 01:37		
Iron, ferrous	SM 3500Fe B	ND	---	0.100	mg/L	1x	ND	--	--	--	NR (20)		11/15/08 00:41	HTI
Matrix Spike (8112486-MS1)										QC Source: NRK0790-01RE1		Extracted: 11/16/08 01:37		
Iron, ferrous	SM 3500Fe B	1.01	---		ug/mL	1x	0.0220	1.00	99%	(75-125)	--	--	11/15/08 00:41	HTI
Matrix Spike Dup (8112486-MSD1)										QC Source: NRK0790-01RE1		Extracted: 11/16/08 01:37		
Iron, ferrous	SM 3500Fe B	1.02	---		ug/mL	1x	0.0220	1.00	100%	(75-125)	1%	(20)	11/15/08 00:41	HTI

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



SAIC - Bothell

18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

11/20/08 13:41

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
EPA 300.0	Water	X	X

Subcontracted Laboratories

TestAmerica Nashville NELAC Cert #E87358, Washington Cert #C1712

2960 Foster Creighton Drive - Nashville, TN 37204

Method Performed: SM 3500Fe B

Samples: BRK0079-01RE1, BRK0079-02RE1, BRK0079-03RE1

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



SAIC - Bothell

18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**
Project Number: 211577
Project Manager: Peter Catterall

Report Created:
11/20/08 13:41

Notes and Definitions

Report Specific Notes:

HTI - The holding time for this test is immediate. The laboratory measurement, therefore, may not be suitable for compliance purposes.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

WBSE# NWRTB 21577-D-OML

CHAIN OF CUSTODY REPORT

Work Order #: BRK0079

CLIENT: Chertron / SAIC		INVOICE TO: Chertron		TURNAROUND REQUEST in Business Days * 10 Organic & Inorganic Analyses <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.				
REPORT TO: Peter Cutler all		ADDRESS: 18912 North Creek Pkwy, Ste 101 Bothell, WA 98011						
PHONE: 425-482-3321 FAX: 425-482-5506		P.O. NUMBER:						
PROJECT NAME: Queen Anne		PRESERVATIVE						
PROJECT NUMBER: 21-1577		REQUESTED ANALYSES						
SAMPLED BY: GC/SAD/jmk/HL								
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Nitrite	Nitrate	Ferrous / IRON	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 MW-7	11/7/08 / 1305	X	X	X	W	2		-01
2 MW-15	11/7/08 / 1445	X	X	X	W	2		-02
3 MW-18	11/7/08 / 1345	X	X	X	W	2		-03
4								
5								
6								
7								
8								
9								
10								
RELEASED BY: Jina King	FIRM: SAIC	DATE: 11/7/08	RECEIVED BY: [Signature]	DATE: 11/7/08				
PRINT NAME: Jina King		TIME: 16:39	PRINT NAME: Francisco Luna, Jr.	TIME: 16:40				
RELEASED BY: [Signature]	FIRM: SAIC	DATE:	RECEIVED BY:	DATE:				
PRINT NAME:		TIME:	PRINT NAME:	TIME:				
ADDITIONAL REMARKS:					FL: 11/7	@Lab 1555	TEMP: 11.4°C	PAGE OF



TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: 334

Date: 11/7/08

Date: 11.07

Date: 11.8.08

Work Order No. BRK0079

Time: 1555

Time: 1706

Time: 1315

Client: _____

Initials: FL

Initials: CW

Initials: DSA

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler _____ Ship Container _____ Sign By _____
 Box _____ On Bottles _____ Date _____
 None/Other _____ None

Bubble Bags _____ Styrofoam _____
 Foam Packs _____
 None/Other _____

Refrigerant:

Received Via: Bill#

Gel Ice Pack _____
 Loose Ice _____
 None/Other _____

Fed Ex Client _____
 UPS _____ TA Courier _____
 DHL _____ Mid Valley _____
 Senvoy _____ TDP _____
 GS _____ Other _____

Cooler Temperature (IR): 11.4 °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
FL-11/7/08 (circle one)

Temperature Blank? 11.4 °C or NA

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____ Metals Preserved? Y or N or NA _____
Provided by TA? or N _____ Client QAPP Preserved? Y or N or NA _____
Correct Type? or N _____ Adequate Volume? or N _____
(for tests requested)
#Containers match COC? or N _____ Water VOAs: Headspace? Y or N or NA _____
IDs/time/date match COC? or N _____ Comments: _____
Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

November 24, 2008

Peter Catterall
SAIC - Bothell
18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

RE: Chevron #21-1577

Enclosed are the results of analyses for samples received by the laboratory on 11/10/08 15:27.
The following list is a summary of the Work Orders contained in this report, generated on 11/24/08
09:55.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BRK0099	Chevron #21-1577	211577

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



SAIC - Bothell

18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

11/24/08 09:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-10	BRK0099-01	Water	11/10/08 10:30	11/10/08 15:27
MW-6	BRK0099-02	Water	11/10/08 11:55	11/10/08 15:27
MW-9	BRK0099-03	Water	11/10/08 11:51	11/10/08 15:27
MW-4	BRK0099-04	Water	11/10/08 13:40	11/10/08 15:27
DUP-1-111008	BRK0099-05	Water	11/10/08 12:00	11/10/08 15:27

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



SAIC - Bothell

18912 North Creek Parkway South, Suite 101
 Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

11/24/08 09:55

Anions by EPA Method 300.0

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0099-01 (MW-10)		Water			Sampled: 11/10/08 10:30					
Nitrate-Nitrogen	EPA 300.0	1.33	----	0.200	mg/l as N	1x	8K11011	11/10/08 17:52	11/10/08 20:42	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	
BRK0099-02 (MW-6)		Water			Sampled: 11/10/08 11:55					
Nitrate-Nitrogen	EPA 300.0	21.1	----	1.00	mg/l as N	5x	8K11011	11/10/08 17:52	11/11/08 10:28	
Nitrite-Nitrogen	"	0.300	----	0.200	"	1x	"	"	11/10/08 20:57	
BRK0099-03 (MW-9)		Water			Sampled: 11/10/08 11:51					
Nitrate-Nitrogen	EPA 300.0	ND	----	0.200	mg/l as N	1x	8K11011	11/10/08 17:52	11/10/08 21:13	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	
BRK0099-04 (MW-4)		Water			Sampled: 11/10/08 13:40					
Nitrate-Nitrogen	EPA 300.0	4.72	----	0.200	mg/l as N	1x	8K11011	11/10/08 17:52	11/10/08 21:29	
Nitrite-Nitrogen	"	ND	----	0.200	"	"	"	"	"	
BRK0099-05 (DUP-1-111008)		Water			Sampled: 11/10/08 12:00					
Nitrate-Nitrogen	EPA 300.0	21.0	----	1.00	mg/l as N	5x	8K11011	11/10/08 17:52	11/11/08 10:44	
Nitrite-Nitrogen	"	0.310	----	0.200	"	1x	"	"	11/10/08 21:44	

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



SAIC - Bothell

18912 North Creek Parkway South, Suite 101
 Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

11/24/08 09:55

General Chemistry Parameters
 TestAmerica Nashville

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BRK0099-01RE1 (MW-10)		Water			Sampled: 11/10/08 10:30					
Iron, ferrous	SM 3500Fe B	0.120	----	0.100	mg/L	1x	8112485	11/16/08 01:36	11/15/08 00:41	HTI
BRK0099-02RE1 (MW-6)		Water			Sampled: 11/10/08 11:55					
Iron, ferrous	SM 3500Fe B	0.698	----	0.100	mg/L	1x	8112485	11/16/08 01:36	11/15/08 00:41	HTI
BRK0099-03RE1 (MW-9)		Water			Sampled: 11/10/08 11:51					
Iron, ferrous	SM 3500Fe B	2.50	----	0.100	mg/L	1x	8112485	11/16/08 01:36	11/15/08 00:41	HTI
BRK0099-04RE1 (MW-4)		Water			Sampled: 11/10/08 13:40					
Iron, ferrous	SM 3500Fe B	ND	----	0.100	mg/L	1x	8112485	11/16/08 01:36	11/15/08 00:41	HTI
BRK0099-05RE1 (DUP-1-111008)		Water			Sampled: 11/10/08 12:00					
Iron, ferrous	SM 3500Fe B	0.819	----	0.100	mg/L	1x	8112485	11/16/08 01:36	11/15/08 00:41	HTI

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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SAIC - Bothell 18912 North Creek Parkway South, Suite 101 Bothell, WA/USA 98011	Project Name: Chevron #21-1577 Project Number: 211577 Project Manager: Peter Catterall	Report Created: 11/24/08 09:55
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Anions by EPA Method 300.0 - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 8K11011 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8K11011-BLK1)										Extracted: 11/10/08 17:52				
Nitrite-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	--	--	--	--	--	--	11/10/08 20:10	
Nitrate-Nitrogen	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
LCS (8K11011-BS1)										Extracted: 11/10/08 17:52				
Nitrite-Nitrogen	EPA 300.0	0.980	---	0.200	mg/l as N	1x	--	1.00	98.0%	(90-110)	--	--	11/10/08 20:26	
Nitrate-Nitrogen	"	1.02	---	0.200	"	"	--	"	102%	"	--	--	"	
Duplicate (8K11011-DUP1)										QC Source: BRK0099-01 Extracted: 11/10/08 17:52				
Nitrite-Nitrogen	EPA 300.0	ND	---	0.200	mg/l as N	1x	ND	--	--	--	NR (25)	--	11/10/08 22:16	
Nitrate-Nitrogen	"	1.32	---	0.200	"	"	1.33	--	--	--	0.755%	"	"	
Matrix Spike (8K11011-MS1)										QC Source: BRK0099-01 Extracted: 11/10/08 17:52				
Nitrite-Nitrogen	EPA 300.0	1.04	---	0.200	mg/l as N	1x	ND	1.00	104%	(69-137)	--	--	11/10/08 22:00	
Nitrate-Nitrogen	"	2.17	---	0.200	"	"	1.33	"	84.0%	(59-126)	--	--	"	

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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SAIC - Bothell	Project Name: Chevron #21-1577	
18912 North Creek Parkway South, Suite 101	Project Number: 211577	Report Created:
Bothell, WA/USA 98011	Project Manager: Peter Catterall	11/24/08 09:55

General Chemistry Parameters - Laboratory Quality Control Results
 TestAmerica Nashville

QC Batch: 8112485 Water Preparation Method: NO PREP

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8112485-BLK1)										Extracted: 11/16/08 01:36				
Iron, ferrous	SM 3500Fe B	ND	---	0.100	mg/L	1x	--	--	--	--	--	--	11/15/08 00:41	HTI
LCS (8112485-BS1)										Extracted: 11/16/08 01:36				
Iron, ferrous	SM 3500Fe B	1.00	---		ug/mL	1x	--	1.00	100%	(80-120)	--	--	11/15/08 00:41	HTI
Duplicate (8112485-DUP1)										QC Source: NRK0832-01RE1		Extracted: 11/16/08 01:36		
Iron, ferrous	SM 3500Fe B	0.151	---	0.100	mg/L	1x	0.166	--	--	--	9% (20)		11/15/08 00:41	HTI
Matrix Spike (8112485-MS1)										QC Source: NRK0832-02RE1		Extracted: 11/16/08 01:36		
Iron, ferrous	SM 3500Fe B	1.79	---		ug/mL	1x	0.941	1.00	85%	(75-125)	--	--	11/15/08 00:41	HTI
Matrix Spike Dup (8112485-MSD1)										QC Source: NRK0832-02RE1		Extracted: 11/16/08 01:36		
Iron, ferrous	SM 3500Fe B	1.80	---		ug/mL	1x	0.941	1.00	86%	(75-125)	0.7% (20)		11/15/08 00:41	HTI

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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SAIC - Bothell

18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

11/24/08 09:55

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
EPA 300.0	Water	X	X

Subcontracted Laboratories

TestAmerica Nashville NELAC Cert #E87358, Washington Cert #C1712

2960 Foster Creighton Drive - Nashville, TN 37204

Method Performed: SM 3500Fe B

Samples: BRK0099-01RE1, BRK0099-02RE1, BRK0099-03RE1, BRK0099-04RE1, BRK0099-05RE1

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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SAIC - Bothell

18912 North Creek Parkway South, Suite 101
Bothell, WA/USA 98011

Project Name: **Chevron #21-1577**

Project Number: 211577

Project Manager: Peter Catterall

Report Created:

11/24/08 09:55

Notes and Definitions

Report Specific Notes:

HTI - The holding time for this test is immediate. The laboratory measurement, therefore, may not be suitable for compliance purposes.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

WBS# NWRTB-211577-0-DM

CHAIN OF CUSTODY REPORT

Work Order #: BAK0099

CLIENT: <u>SAIL / CHEM</u>		INVOICE TO: <u>CHEM</u>		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.							
REPORT TO: <u>Peter Catterall</u>		P.O. NUMBER:									
ADDRESS: <u>18910 North Creek Pkwy Ste 101</u> <u>Bothell, WA 98011</u>											
PHONE: <u>425-482-3321</u> FAX: <u>425-485-5526</u>											
PROJECT NAME: <u>Queen Anne</u>		PRESERVATIVE									
PROJECT NUMBER: <u>21-1577</u>		REQUESTED ANALYSES									
SAMPLED BY: <u>JMR/GC/HR</u>											
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Nitrite	Nitrate	Ferrous Iron	Ferrous			MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
QA-1-111008	11/10/08 / 0900	X	X	X	X			W			-
2 MW-10	11/10/08 / 1030	X	X					W	2		-01
3 MW-6	11/10/08 / 1155	X	X					W	2		-02
4 MW-9	11/10/08 / 1151	X	X					W	2		-03
5 MW-4	11/10/08 / 1340	X	X					W	2		-04
6 DUP-1-111008	11/10/08	X	X					W	2		-05
7											
8											
9											
10											
RELEASED BY: <u>Trina King</u>		DATE: <u>11/10/08</u>		RECEIVED BY: <u>PRAMY TOND</u>		DATE: <u>11-10-08</u>					
PRINT NAME: <u>Trina King</u>		FIRM: <u>SATC</u>		TIME: <u>1527</u>		PRINT NAME: <u>PRAMY TOND</u>		FIRM: <u>TA-S</u>		TIME: <u>1527</u>	
RELEASED BY:		DATE:		RECEIVED BY:		DATE:					
PRINT NAME:		FIRM:		PRINT NAME:		FIRM:					
ADDITIONAL REMARKS:								TEMP: <u>5.8</u>		PAGE <u>1</u> OF <u>1</u>	

w/o

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____

(applies to temp at receipt)

Logged-in By: _____

Unpacked/Labeled By: _____

Cooler ID: _____

Date: 11-10-08

Date: 11-10-08

Date: 11-10-08

Work Order No. BRK0099

Time: 15:27

Time: 15:25

Time: 16:00

Client: _____

Initials: PTB

Initials: PTB

Initials: PTB

Project: _____

Container Type:

COC Seals:

Packing Material _____

Cooler

____ Ship Container _____ Sign By

____ Bubble Bags _____ Styrofoam

____ Box

____ On Bottles _____ Date

____ Foam Packs

____ None/Other _____

None

None/Other _____

Refrigerant:

Received Via: Bill# _____

Gel Ice Pack _____

____ Fed Ex Client

____ Loose Ice _____

____ UPS _____ TA Courier

____ None/Other _____

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): 9.8 °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)

Temperature Blank? _____ °C or NA

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

Intact? Y or N _____

Metals Preserved? Y or N or NA

Provided by TA? Y or N _____

Client QAPP Preserved? Y or N or NA

Correct Type? Y or N _____

Adequate Volume? Y or N _____

#Containers match COC? Y or N _____

Water VOAs: Headspace? Y or N or NA

IDs/time/date match COC? Y or N _____

Comments: _____

Hold Times in hold? Y or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____