January 24, 2014

Mr. Eric Roehl
Chevron Environmental Management Company
145 S State College Blvd
Brea, California 92821

Subject: **Fourth Quarter 2013 Groundwater Monitoring and Sampling Report**
Chevron Bulk Plant Facility No. 352300
State Route 274
Tekoa, Washington

Dear Mr. Roehl:

Leidos Engineering, LLC (Leidos; formerly SAIC Energy, Environment & Infrastructure, LLC) submits this groundwater monitoring and sampling report for the above-referenced site (Figure 1). Groundwater monitoring and sampling activities were conducted by Gettler-Ryan, Inc. (Gettler-Ryan) on October 26, 2013. The Gettler-Ryan groundwater monitoring and sampling package is provided as Attachment A.

FIELD ACTIVITIES

On October 26, 2013, the depth to groundwater was measured in monitoring wells MW-1 through MW-7. The groundwater elevation ranged from 2,486.77 feet (MW-4) to 2,490.02 feet (MW-6) based on 1988 North American Vertical Datum (NAVD 88). Groundwater flow is to the north-northwest at gradient of approximately 0.02 to 0.04 feet per foot (ft/ft). A potentiometric map is provided on Figure 1.

Groundwater samples were collected from all monitoring wells with the exception of monitoring well MW-2. Monitoring well MW-2 had insufficient water to collect a sample. In addition, a duplicate sample was collected from monitoring well MW-7. The groundwater samples were shipped under chain-of-custody protocol to Eurofins Lancaster Laboratories, Inc. in Lancaster, Pennsylvania and were submitted for the following analyses:

- Total petroleum hydrocarbons (TPH) as gasoline-range organics by Northwest Method NWTPH-Gx;
- TPH as diesel-range organics and TPH as heavy oil-range organics by Northwest Method NWTPH-Dx;

- Volatile organic compounds by United States Environmental Protection Agency (USEPA) Method 8260B;
- Polynuclear aromatic hydrocarbons by USEPA Method 8270C SIM; and
- Total and dissolved lead by USEPA Method 6020.

Laboratory analytical results are included as Attachment B and a summary of groundwater elevations and groundwater analytical results are provided in Tables 1 through 3 and shown on Figure 2. In addition, hydrographs for monitoring wells MW-2 and MW-7 are included in Attachment C.

RESULTS

The results of the fourth quarter 2013 sampling event indicate petroleum-hydrocarbon constituent concentrations are generally consistent and following a downward trend with respect to historical data. In addition, the groundwater elevation, flow direction, and gradient are consistent with historical measurements.

A detailed review of laboratory results indicate the following:

- TPH-D concentrations detected in monitoring well MW-7 exceeded the Model Toxic Control Act (MTCA) Method A cleanup level.
- TPH-G concentrations detected in the duplicate sample collected from monitoring well MW-7exceeded the MTCA Method A cleanup level.
- Total lead concentrations detected in monitoring wells MW-1, MW-3, MW-6, and MW-7 exceeded the MTCA Method A cleanup level.
- All other analytes were either below their respective MTCA Method A cleanup levels or laboratory detection limits.

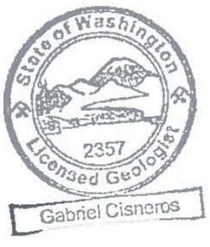
If you have any questions or comments, please contact me at (208) 429-3772 or via email at ronald.santos@leidos.com.

Sincerely,

Leidos Engineering, LLC

Ron Santos, PE
Senior Project Engineer

Gabriel Cisneros LG #2357
Geologist



Enclosures:

Figure 1 – Potentiometric Map

Figure 2 – Site Plan with Groundwater Analytical Results

Table 1 – Groundwater Monitoring Data and Analytical Results – BTEX, Petroleum Hydrocarbons, and Lead

Table 2 – Groundwater Analytical Results – PAHs

Table 3 – Groundwater Analytical Results - VOCs

Attachment A – Groundwater Monitoring and Sampling Data Package

Attachment B – Laboratory Analysis Report

Attachment C – Hydrographs

cc: Project File

REPORT LIMITATIONS

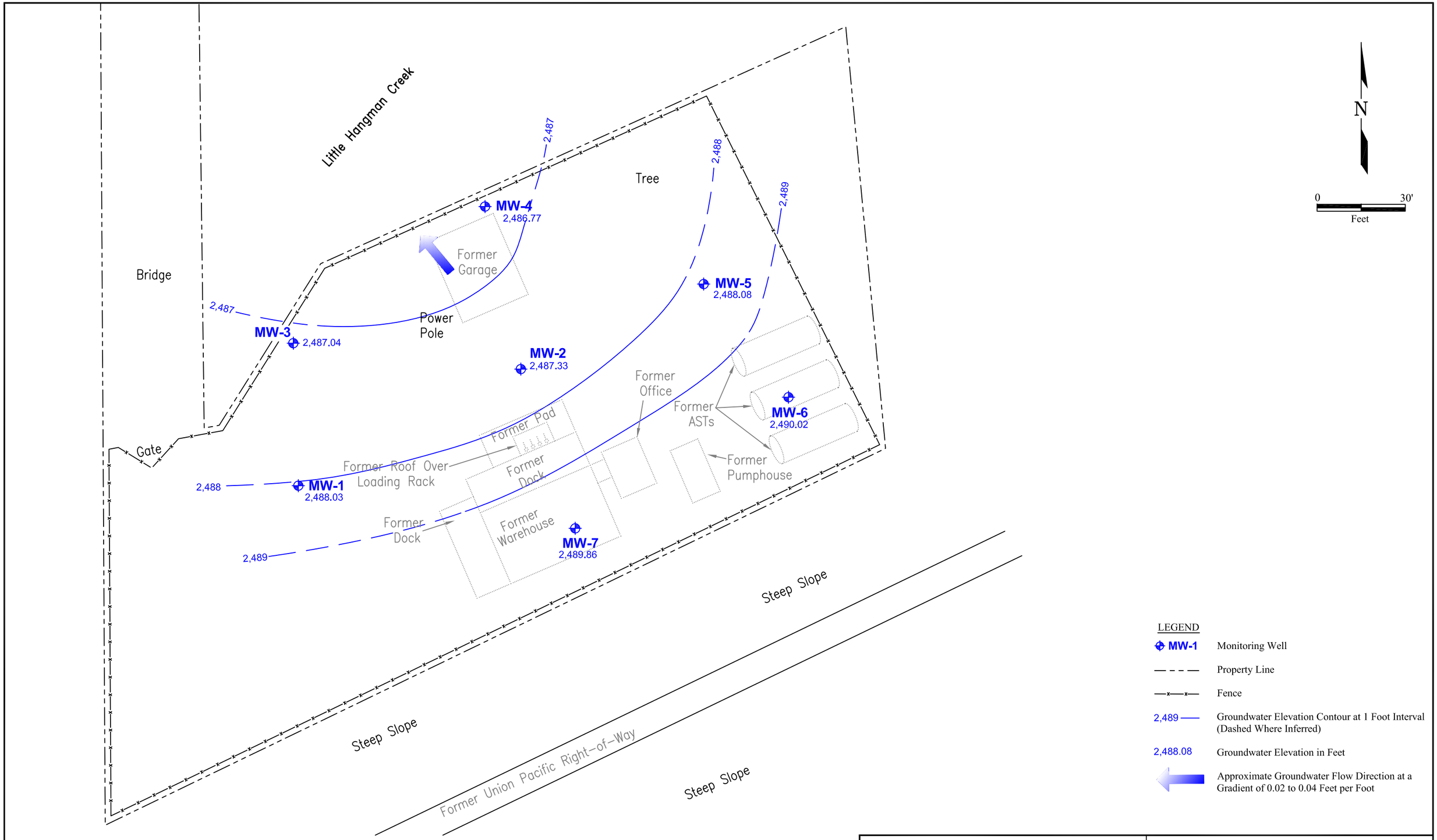
This technical document was prepared on behalf of CEMC and is intended for its sole use and for use by the local, state or federal regulatory agency that the technical document was sent to by Leidos. Any other person or entity obtaining, using, or relying on this technical document hereby acknowledges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

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

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

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

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



LEGEND

MW-1	Monitoring Well
— — —	Property Line
—x—x—	Fence
2,489 ——	Groundwater Elevation Contour at 1 Foot Interval (Dashed Where Inferred)
2,488.08	Groundwater Elevation in Feet
	Approximate Groundwater Flow Direction at a Gradient of 0.02 to 0.04 Feet per Foot

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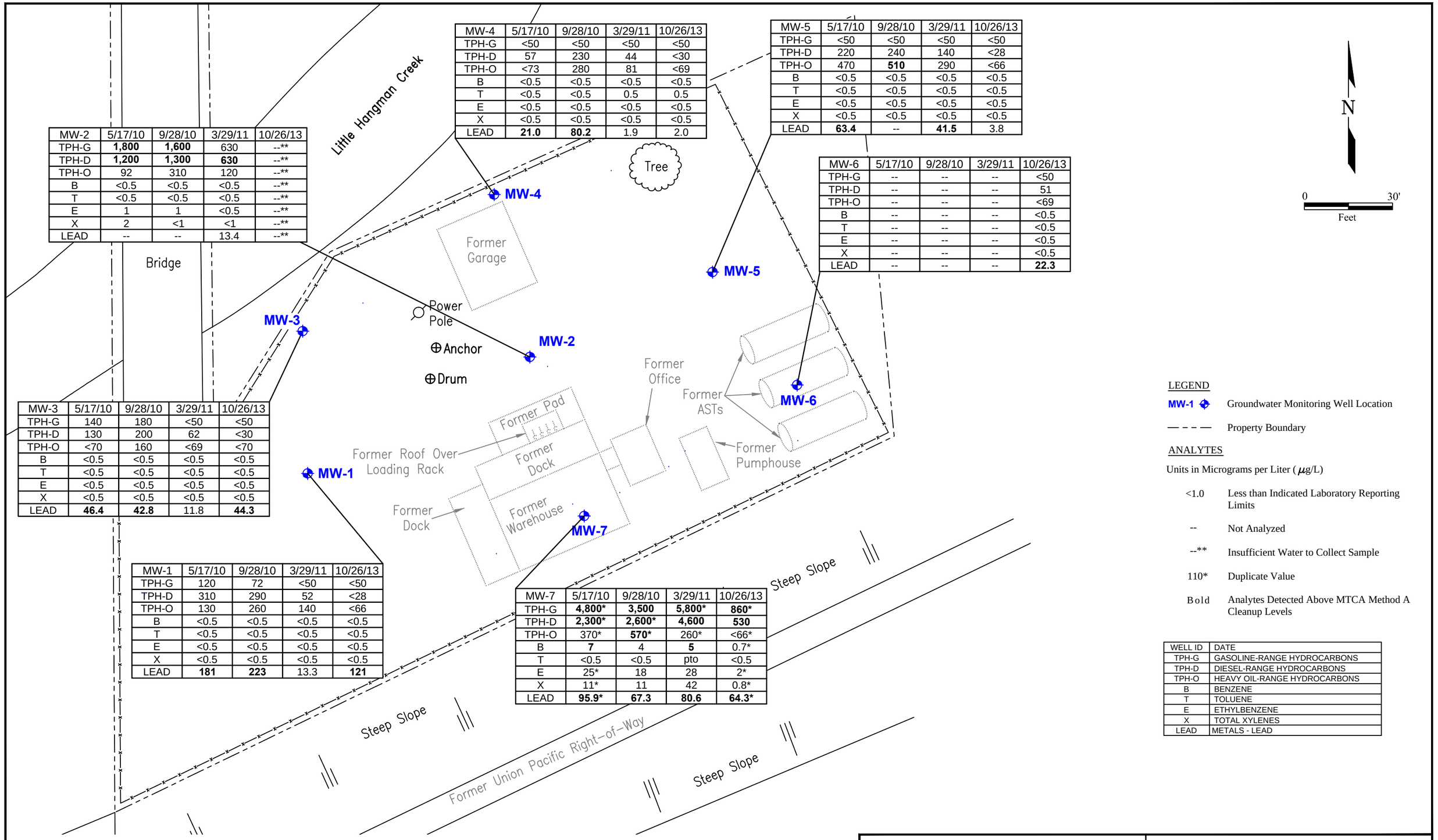
Chevron Site No. 352300
State Route 274
Tekoa, Washington

Figure 1
Potentiometric Map
(October 26, 2013)

DATE: 12/2/2013

DRAWING: Tekoa Site Map.dwg



MW-2	5/17/10	9/28/10	3/29/11	10/26/13
TPH-G	**1,800**	**1,600**	630	--**
TPH-D	**1,200**	**1,300**	**630**	--**
TPH-O	92	310	120	--**
B	<0.5	<0.5	<0.5	--**
T	<0.5	<0.5	<0.5	--**
E	1	1	<0.5	--**
X	2	<1	<1	--**
LEAD	--	--	13.4	--**

MW-4	5/17/10	9/28/10	3/29/11	10/26/13
TPH-G	<50	<50	<50	<50
TPH-D	57	230	44	<30
TPH-O	<73	280	81	<69
B	<0.5	<0.5	<0.5	<0.5
T	<0.5	<0.5	0.5	0.5
E	<0.5	<0.5	<0.5	<0.5
X	<0.5	<0.5	<0.5	<0.5
LEAD	**21.0**	**80.2**	1.9	2.0

MW-5	5/17/10	9/28/10	3/29/11	10/26/13
TPH-G	<50	<50	<50	<50
TPH-D	220	240	140	<28
TPH-O	470	**510**	290	<66
B	<0.5	<0.5	<0.5	<0.5
T	<0.5	<0.5	<0.5	<0.5
E	<0.5	<0.5	<0.5	<0.5
X	<0.5	<0.5	<0.5	<0.5
LEAD	**63.4**	--	**41.5**	3.8

MW-6	5/17/10	9/28/10	3/29/11	10/26/13
TPH-G	--	--	--	<50
TPH-D	--	--	--	51
TPH-O	--	--	--	<69
B	--	--	--	<0.5
T	--	--	--	<0.5
E	--	--	--	<0.5
X	--	--	--	<0.5
LEAD	--	--	--	**22.3**

MW-3	5/17/10	9/28/10	3/29/11	10/26/13
TPH-G	140	180	<50	<50
TPH-D	130	200	62	<30
TPH-O	<70	160	<69	<70
B	<0.5	<0.5	<0.5	<0.5
T	<0.5	<0.5	<0.5	<0.5
E	<0.5	<0.5	<0.5	<0.5
X	<0.5	<0.5	<0.5	<0.5
LEAD	**46.4**	**42.8**	11.8	**44.3**

MW-1	5/17/10	9/28/10	3/29/11	10/26/13
TPH-G	120	72	<50	<50
TPH-D	310	290	52	<28
TPH-O	130	260	140	<66
B	<0.5	<0.5	<0.5	<0.5
T	<0.5	<0.5	<0.5	<0.5
E	<0.5	<0.5	<0.5	<0.5
X	<0.5	<0.5	<0.5	<0.5
LEAD	**181**	**223**	13.3	**121**

MW-7	5/17/10	9/28/10	3/29/11	10/26/13
TPH-G	**4,800***	**3,500**	**5,800***	**860***
TPH-D	**2,300***	**2,600***	**4,600**	**530**
TPH-O	370*	**570***	260*	<66*
B	**7**	4	**5**	0.7*
T	<0.5	<0.5	pto	<0.5
E	25*	18	28	2*
X	11*	11	42	0.8*
LEAD	**95.9***	**67.3**	**80.6**	**64.3***

LEGEND

MW-1 Groundwater Monitoring Well Location

Property Boundary

ANALYTES

Units in Micrograms per Liter (μg/L)

<1.0	Less than Indicated Laboratory Reporting Limits
--	Not Analyzed
--**	Insufficient Water to Collect Sample
110*	Duplicate Value
Bold	Analytes Detected Above MTCA Method A Cleanup Levels

WELL ID	DATE
TPH-G	GASOLINE-RANGE HYDROCARBONS
TPH-D	DIESEL-RANGE HYDROCARBONS
TPH-O	HEAVY OIL-RANGE HYDROCARBONS
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES
LEAD	METALS - LEAD

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Chevron Station No. 352300
State Route 274
Tekoa, Washington

Figure 2
Site Plan with Groundwater Analytical Results

DATE: 12/2/2013

DRAWING: 352300 Site Map.dwg

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS - BTEX, Petroleum Hydrocarbons, and Lead
Chevron Bulk Plant Facility No. 352300
State Route 274. Tekoa, Washington
Concentrations reported in µg/L

Well ID TOC (feet)	Date Sampled	DTW (feet)	Groundwater Elevation (feet)	TPH-D	TPH-O	TPH-G	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Dissolved Lead	Total Lead
MW-1	11/10/08	6.13	2,488.46	170	<73	140	1	<0.5	<0.5	<1.0	<0.5	<0.050	2.8
2,494.59	02/09/09	3.24	2,491.35	47	<66	82	<0.5	<0.5	<0.5	<1.0	<0.5	<0.050	0.36
	03/08/10	4.41	2,490.18	87	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.15	**57.4**
	05/17/10	6.13	2,488.46	310	130	120	<0.5	<0.5	<0.5	<0.5	<0.5	0.052	**181**
	09/28/10	6.46	2,488.13	290	260	72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	**223**
	03/29/11	1.95	2,492.64	52	140	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	13.3
	10/26/13	6.56	2,488.03	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.11	**121**
MW-2	11/10/08	6.74	2,488.52	**2,500**	420	**2,400**	0.9	<0.5	2	5	<0.5	--	--
2,495.26	02/09/09	Inaccessible											
	03/08/10	5.67	2,489.59	**880**	<71	**1,000**	<0.5	<0.5	1	1	<0.5	<0.050	9.5
	05/17/10	5.99	2,489.27	**1,200**	92	**1,800**	<0.5	<0.5	1	2	<0.5	<0.050	--
	09/28/10	6.76	2,488.50	**1,300**	310	**1,600**	<0.5	<0.5	1	<1	<0.5	--	--
	03/29/11	1.41	2,493.85	**630**	120	630	<0.5	<0.5	<0.5	<1	<0.5	<0.052	13.4
	10/26/13	7.93	2,487.33	Insufficient water to collect sample									
MW-3	11/10/08	6.40	2,487.55	400	100	170	<0.5	<0.7	<0.8	<1.6	<0.5	<0.050	**54.2**
2493.95	02/09/09	Inaccessible											
	03/08/10	3.48	2,490.47	--	--	--	--	--	--	--	--	--	--
	05/17/10	6.00	2,487.95	130	<70	140	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	**46.4**
	09/28/10	6.62	2,487.33	200	160	180	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	**42.8**
	03/29/11	2.08	2,491.87	62	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	11.8
	10/26/13	6.91	2,487.04	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.11	**44.3**
MW-4	11/10/08	6.53	2,487.57	360	77	230	1	<0.5	<0.5	<1.0	<0.5	<0.050	**57.7**
2,494.10	02/09/09	Inaccessible											
	03/08/10	4.99	2,489.11	**830**	<68	**2,700**	3	<0.5	14	16	<0.5	0.14	**53.0**
	05/17/10	5.33	2,488.77	57	<73	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	**21.0**
	09/28/10	6.64	2,487.46	230	280	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	**80.2**
	03/29/11	0.29	2,493.81	44	81	<50	<0.5	0.5	<0.5	<0.5	<0.5	0.082	1.9
	10/26/13	7.33	2,486.77	<30	<69	<50	<0.5	0.5	<0.5	<0.5	<0.5	0.12	2.0
MW-5	11/10/08	6.63	2,488.53	**1,700**	**1,600**	240	0.6	<0.5	<0.5	<1.0	<0.5	--	--
2,495.16	02/09/09	0.92	2,494.24	180	230	<50	<0.5	<0.5	<0.5	<1.0	<0.5	0.093	2
	03/08/10	5.87	2,489.29	450	<700	71	<0.5	<0.5	<0.5	<0.5	<0.5	0.074	**194**
	05/17/10	5.15	2,490.01	220	470	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	**63.4**
	09/28/10	7.19	2,487.97	240	**510**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
	03/29/11	0.75	2,494.41	140	290	<50	<0.5	<0.5	<0.5	<0.5	<0.5	4.3	**41.5**
	10/26/13	7.08	2,488.08	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.21	3.8

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS - BTEX, Petroleum Hydrocarbons, and Lead
Chevron Bulk Plant Facility No. 352300
State Route 274. Tekoa, Washington
Concentrations reported in µg/L

Well ID TOC (feet)	Date Sampled	DTW (feet)	Groundwater Elevation (feet)	TPH-D	TPH-O	TPH-G	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Dissolved Lead	Total Lead
MW-6	11/10/08	5.66	2,490.38	**570**	140	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--	**649**
2,496.04	02/09/09	Inaccessible											
	03/08/10	5.74	2,490.30	58	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	**39.3**
	05/17/10	3.79	2,492.25	--	--	--	--	--	--	--	--	--	--
	09/28/10	DRY	--	--	--	--	--	--	--	--	--	--	--
	03/29/11	Inaccessible											
	10/26/13	6.02	2,490.02	51	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.39	**22.3**
MW-7	11/10/08	5.12	2,490.54	**2,500**	400	**4,400**	2	2	25	49	<0.5	0.063	**95.2**
2,495.66	02/09/09	Inaccessible											
	03/08/10	4.77	2,490.89	56	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.059	**18.1**
	03/08/10(D)	--	--	110	110	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	**21.9**
	05/17/10	5.28	2,490.38	**1,600**	230	**3,400**	**7**	<0.5	23	10	<0.5	<0.050	**85.6**
	05/17/10(D)	--	--	**2,300**	370	**4,800**	**7**	<0.5	25	11	<0.5	<0.050	**95.9**
	09/28/10	5.47	2,490.19	**2,100**	490	**3,500**	4	<0.5	18	11	<0.5	<0.052	**67.3**
	09/28/10(D)	--	--	**2,600**	**570**	**2,700**	3	<0.5	16	10	<0.5	--	--
	03/29/11	1.85	2,493.81	**4,600**	<350	**5,100**	**5**	1	28	42	<0.5	0.069	**80.6**
	03/29/11(D)	--	--	**2,700**	260	**5,800**	**5**	1	28	40	<0.5	<0.052	**76.2**
	10/26/13	5.80	2,489.86	**530**	<69	170	0.5	<0.5	1	0.6	<0.5	0.15	**37.6**
	10/26/13(D)	--	--	450	<66	**860**	0.7	<0.5	2	0.8	<0.5	0.12	**64.3**
MTCA Method A Cleanup Levels				500	500	800	5	1,000	700	1,000	20	--	15

Abbreviations:

BTEX = Benzene, toluene, ethylbenzene, and total xylenes
D = Duplicate
DTW = Depth to water
MTBE = Methyl Tertiary Butyl Ether
MTCA = Model Toxic Control Act
TOC = Top of casing elevation
TPH = Total petroleum hydrocarbons
TPH-D = TPH as diesel-range organics
TPH-G = TPH as gasoline-range organics
TPH-O = TPH as heavy oil-range organics
USEPA = United States Environmental Protection Agency
-- = not analyzed
< = Analyte is not detected at or above the laboratory reporting limit. The laboratory reporting limit is listed.
µg/L = micrograms per liter

Notes:

Analytical results in bold font indicate concentrations exceed MTCA Method A cleanup levels.
BTEX and MTBE analyzed by USEPA Method 8260B or 8021B.
TPH-G analyzed by Northwest Method NWTPH-Gx.
TPH-D and TPH-O analyzed by Northwest Method NWTPH-Dx, with acid/silica-gel cleanup.
Lead analyzed by USEPA 6000/7000 Series Method.
TOC elevations have been surveyed in feet relative to the 1988 North American Vertical Datum.

TABLE 2
GROUNDWATER ANALTYICAL RESULTS – PAHs
Chevron Bulk Plant Facility No. 352300
State Route 274, Tekoa, Washington
Concentrations reported in µg/L

Well ID/ Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) Fluoranthene	Benzo (g,h,i) Perylene	Benzo (k) Fluoranthene	Chrysene	Dibenz (a,h) Anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) Pyrene	Naphthalene	Phenanthrene	Pyrene
MW-1																
11/10/08	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.12	<0.011	<0.011
02/09/09	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
03/08/10	<0.0099	0.12	0.14	0.18	0.32	0.51	0.33	0.22	0.23	0.084	0.42	<0.0099	0.34	0.028	0.29	0.33
05/17/10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.20	<0.050	<0.050
09/28/10	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097	<0.0097
03/29/11	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098
10/26/13	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.030	<0.030	<0.010
MW-2																
11/10/08	0.041	<0.011	0.049	<0.011	<0.011	<0.011	<0.011	<0.011	0.013	<0.011	0.020[1]	0.058	<0.011	12	0.018	0.016
02/09/09	Inaccessible															
03/08/10	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.11	<0.10	10	<0.10	<0.10
05/17/10	<0.050	<0.050	0.12	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.059	<0.050	8.5	<0.050	<0.050
09/28/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/29/11	<0.010	0.34	0.020	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.26	<0.010	0.67	0.010	<0.010
10/26/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3																
11/10/08	0.013	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.17	0.014	<0.011
02/09/09	Inaccessible															
03/08/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/17/10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
09/28/10	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	0.28	<0.0098	<0.0098
03/29/11	<0.010	<0.010	0.013	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.015
10/26/13	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.030	<0.030	<0.010
MW-4																
11/10/08	<0.011	<0.011	0.016	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	0.089	0.017	<0.011
02/09/09	Inaccessible															
03/08/10	0.13	<0.025	0.035	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	0.015	0.23	<0.0095	4.5	0.079	0.012
05/17/10	<0.0099	<0.0099	0.018	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	0.036	<0.0099	<0.0099

TABLE 2
GROUNDWATER ANALTYICAL RESULTS – PAHs
Chevron Bulk Plant Facility No. 352300
State Route 274, Tekoa, Washington
Concentrations reported in µg/L

Well ID/ Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) Fluoranthene	Benzo (g,h,i) Perylene	Benzo (k) Fluoranthene	Chrysene	Dibenz (a,h) Anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) Pyrene	Naphthalene	Phenanthrene	Pyrene
MW-4 (cont)																
09/28/10	<0.0099	<0.0099	0.018	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	0.051	<0.0099	<0.0099
03/29/11	<0.0098	<0.0098	0.015	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	0.011	<0.0098
10/26/13	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.030	<0.030	<0.010
MW-5																
11/10/08	0.044	0.31	0.29	0.63	1.2	2.0	0.64	0.62	0.92	0.20	1.5	0.064	0.67	0.29	0.98	1.2
02/09/09	<0.010	0.013	0.037	0.011	0.014	0.018	0.021	0.014	0.013	<0.010	0.024	<0.010	0.017	<0.010	0.020	0.017
03/08/10	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	0.025	<0.0095	<0.0095
05/17/10	0.017	0.44	0.32	0.55	1.1	1.6	0.97	0.77	0.87	0.24	1.6	0.035	0.91	0.090	0.80	0.93
09/28/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/29/11	<0.0098	0.10	0.13	0.14	0.17	0.16	0.24	0.15	0.15	<0.098	0.28	<0.098	0.20	<0.29	0.23	0.23
10/26/13	<0.010	0.012	0.014	0.016	0.022	0.037	0.031	0.017	0.023	<0.010	0.034	<0.010	0.027	0.051	<0.031	0.030
MW-6																
11/10/08	<0.011	0.055	0.029	0.044	0.12	0.13	0.090	0.057	0.079	0.020	0.21	0.020[1]	0.076	0.12	0.15	0.20
02/09/09	Inaccessible															
03/08/10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.25	<0.10	<0.10
05/17/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/28/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/29/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/26/13	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.056	<0.030	<0.010
MW-7																
11/10/08	0.18	<0.040	0.041	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	0.33	<0.010	6.7	0.057	0.014
02/09/09	Inaccessible															
03/08/10	<0.0095	<0.0095	0.015	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	0.042	<0.0095	<0.0095
03/08/10(D)	<0.0095	<0.0095	0.015	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	0.063	<0.0095	<0.0095
05/17/10	0.21	<0.060	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.62	<0.050	3.1	0.12	<0.050
05/17/10(D)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/28/10	0.042	0.022	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	0.064	<0.0098	<0.0098	<0.0098	<0.0098
09/28/10(D)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2
GROUNDWATER ANALTYICAL RESULTS – PAHs
Chevron Bulk Plant Facility No. 352300
State Route 274, Tekoa, Washington
Concentrations reported in µg/L

Well ID/ Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) Fluoranthene	Benzo (g,h,i) Perylene	Benzo (k) Fluoranthene	Chrysene	Dibenz (a,h) Anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) Pyrene	Naphthalene	Phenanthrene	Pyrene
MW-7 (cont)																
03/29/11	0.13	0.017	0.035	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.012	0.18	<0.010	1.8	0.026	<0.010
03/29/11(D)	0.15	0.018	0.042	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	0.014	0.41	<0.0099	3.9	0.041	0.010
10/26/13	0.48	0.40	0.58	0.59	0.49	0.54	0.60	0.56	0.53	0.58	0.55	0.62	0.58	0.56	0.56	0.54
10/26/13(D)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.030	<0.030	<0.010

Abbreviations:
D = Duplicate
PAHs = Polynuclear Aromatic Hydrocarbons
USEPA = United States Environmental Protection Agency
-- = not analyzed
< = Analyte is not detected at or above the laboratory reporting limit. The laboratory reporting limit is listed.
µg/L = micrograms per liter

Notes:
PAHs analyzed by USEPA Method 8270C

TABLE 3
GROUNDWATER ANALYTICAL RESULTS – VOCs
Chevron Bulk Plant Facility No. 352300
State Route 274, Tekoa, Washington
Concentrations reported in µg/L

Well ID/ Date	Bromodichloromethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Chloroform	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Isopropylbenzene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
MW-1																	
11/10/08	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
02/09/09	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
03/08/10	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
05/17/10	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
09/28/10	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	0.096	<1	<0.8	<0.8	<1	<1	<1
03/29/11	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
10/26/13	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
MW-2																	
11/10/08	<1	2	7	<1	<0.8	<0.8	<0.8	<0.8	17	10	16	22	<0.8	<0.8	<1	130	39
02/09/09	Inaccessible																
03/08/10	<1	1	5	<1	<0.8	<0.8	<0.8	<0.8	8	3	4	10	<0.8	<0.8	<1	27	<1
05/17/10	<1	2	9	1	<0.8	<0.8	<0.8	<0.8	16	7	7	21	<0.8	<0.8	<1	69	21
09/28/10	<1	1	9	1	<0.8	<0.8	<0.8	<0.8	13	<1	--	19	<0.8	<0.8	<1	16	<1
03/29/11	<1	<1	3	<1	<0.8	<0.8	<0.8	<0.8	3	<1	<1	3	<0.8	<0.8	<1	4	<1
10/26/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3																	
11/10/08	<1	<1	1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
02/09/09	Inaccessible																
03/08/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/17/10	<1	<1	2	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
09/28/10	<1	<1	2	<1	<0.8	<0.8	<0.8	<0.8	<1	0.28	<1	<1	<0.8	<0.8	<1	<1	<1
03/29/11	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
10/26/13	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1

TABLE 3
GROUNDWATER ANALYTICAL RESULTS – VOCs
Chevron Bulk Plant Facility No. 352300
State Route 274, Tekoa, Washington
Concentrations reported in µg/L

Well ID/ Date	Bromodichloromethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Chloroform	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Isopropylbenzene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
MW-4																	
11/10/08	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
02/09/09	Inaccessible																
03/08/10	<1	2	10	<1	<0.8	<0.8	<0.8	<0.8	22	5	4	24	<0.8	<0.8	<1	69	10
05/17/10	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
09/28/10	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	0.051	<1	<0.8	<0.8	<1	<1	<1
03/29/11	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
10/26/13	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
MW-5																	
11/10/08	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
02/09/09	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
03/08/10	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
05/17/10	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
09/28/10	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	--	<1	<0.8	<0.8	<1	<1	<1
03/29/11	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
10/26/13	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
MW-6																	
11/10/08	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
02/09/09	Inaccessible																
03/08/10	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
05/17/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/28/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/29/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/26/13	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1

TABLE 3
GROUNDWATER ANALYTICAL RESULTS – VOCs
Chevron Bulk Plant Facility No. 352300
State Route 274, Tekoa, Washington
Concentrations reported in µg/L

Well ID/ Date	Bromodichloromethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Chloroform	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Isopropylbenzene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
MW-7																	
11/10/08	<1	5	11	1	<0.8	<0.8	<0.8	<0.8	29	13	12	38	<0.8	<0.8	<1	150	59
02/09/09	Inaccessible																
03/08/10	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
03/08/10(D)	<1	<1	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<0.8	<0.8	<1	<1	<1
05/17/10	<1	3	12	1	<0.8	<0.8	<0.8	<0.8	29	9	2	38	<0.8	<0.8	<1	42	3
05/17/10(D)	<1	3	13	1	<0.8	<0.8	<0.8	<0.8	30	10	2	39	<0.8	<0.8	<1	44	3
09/28/10	<1	2	13	1	<0.8	<0.8	<0.8	<0.8	24	6	<0.0098	34	<0.8	<0.8	<1	59	2
09/28/10(D)	<1	2	11	1	<0.8	<0.8	<0.8	<0.8	21	5	--	27	<0.8	<0.8	<1	48	3
03/29/11	<1	8	19	1	<0.8	<0.8	<0.8	<0.8	40	23	11	55	<0.8	<0.8	<1	210	57
03/29/11(D)	<1	8	18	2	<0.8	<0.8	<0.8	<0.8	35	22	12	56	<0.8	<0.8	<1	210	57
10/26/13	<1	<1	4	<1	<0.8	<0.8	<0.8	<0.8	2	1	<1	3	<0.8	<0.8	<1	9	<1
10/26/13(D)	<1	<1	5	<1	<0.8	<0.8	<0.8	<0.8	3	2	<1	4	<0.8	<0.8	<1	12	<1

Abbreviations:
D = Duplicate
USEPA = United States Environmental Protection Agency
VOCs = Volatile Organic Compounds
-- = not analyzed
< = Analyte is not detected at or above the laboratory reporting limit. The laboratory reporting limit is listed.
µg/L = micrograms per liter

Notes:
VOCs analyzed by USEPA Method 8260B

leidos

Attachment A:
Groundwater Monitoring and Sampling Data Package

GETTLER-RYAN INC.

TRANSMITTAL

November 7, 2010
G-R #385853

TO: Mr. Don Wyll
Leidos, Inc.
18912 North Creek Parkway, Suite 101
Bothell, Washington 98011

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6805 Sierra Court, Suite G
Dublin, California 94568

RE: Chevron Facility #352300
(Former Standard Oil Bulk Plant #1001152)
State Route 274
Tekoa, Washington

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package **Fourth Quarter Event of October 26, 2013**

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/352300

GETTLER-RYAN INC.

CHEVRON - SITE CHECK LIST

Facility#:	**Chevron #352300**	Date:	10.26.13
Address:	**State Route 274**		
City/St.:	**Tekoa,WA**		
Status of Site:	FENCED / PROPERTY		

DRUMS: Please list below ALL DRUMS @ site: i.e., drum description, condition, labeling, contents, location of drum:

#	Description	Condition	Labeling	Contents	Location
	NO DRUMS				

WELLS: Please check the condition of ALL WELLS @ site: i.e., well box condition, well plug, well lock, etc.:

Well ID	Well Box	Bolts	Well Plug	Well Lock	Other
MW-1	8" MORRIS x3	GOOD	R	R	R. GASKET
MW-2	↓	↓	R	R	R
MW-3			R	R	R
MW-4			R	R	R
MW-5			R	R	R
MW-6			R	R	R
MW-7			R	R	R

Additional Comments/Observations:

Standard Operating Procedure, Low-Flow Purging and Sampling

Gettler-Ryan Inc. field personnel adhere to the following Standard Operating Procedure (SOP) for the collection and handling of representative groundwater samples using the Low-Flow (Minimal-Drawdown) Purging technique. This SOP incorporates purging and sampling methods discussed in U.S. EPA, Ground Water Issue, Publication Number EPA/540/S-95/504, April 1996 by Puls, R.W. and M.J. Barcelona - *"Low-Flow (Minimal-Drawdown) Ground-Water Sampling Procedures."*

A QED Well Wizard™ (or equivalent) bladder pump or Peristaltic Pump will be used to purge and sample selected wells as outlined in the scope-of-work. An in-line flow cell or other multi-parameter meter is used to collect water quality indicating parameters during purging.

Initial Pump Discharge Test Procedures

The Static Water Level (SWL) is measured in all wells at the site prior to the installation of the pump or tubing and initiation of the test procedures in any well. In addition, the presence or absence of separate-phase hydrocarbons (SPH) is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot. The SWL measurement and SPH thickness, if any, will be recorded on the field data sheet.

The bladder pump or suction inlet tubing of the peristaltic pump is then positioned with its inlet located within the screened interval of the well. The in-line flow cell is then connected to the discharge tubing. After pump installation, the SWL is allowed to recover to its original level. The pump is then started at a discharge rate between 100 ml to 300 ml per minute with the in-line flow cell connected. The water level is monitored continuously for any change from the original measurement and the discharge rate is adjusted until an optimum discharge rate (ODR) is determined. The goal for the ODR is to produce a stable drawdown of less than 0.1 meter as allowed by site conditions; however the total drawdown from the initial SWL should not exceed 25% of the distance between pump inlet location and the top of the well screen. Once achieved, the ODR will be confirmed by volumetric discharge measurement and recorded on the field data sheet.

Purging and Water Quality Parameter Measurement

When the ODR has been determined and the SWL drawdown has been established within the acceptable range, and a minimum of one pump system volume (bladder volume and/or discharge tubing volume) has been purged, field measurements for temperature (T), pH, conductivity (Ec), and if required, oxygen reduction potential (ORP) and dissolved oxygen (DO) will be collected and documented on the field data sheet. Measurements should be taken every three to five minutes until parameters stabilize for three consecutive readings. The minimum parameter subset of T (± 10%), pH (± 0.1 unit), and Ec (± 10 uS) are required to stabilize. Additional parameters that may be required are DO (± 0.2 mg/l) and ORP (± 20 mV).

Sample Collection

When water quality parameters have stabilized, and the SWL drawdown remains established within the acceptable range, groundwater sample collection may begin. If used, the in-line flow cell and its tubing are disconnected from the discharge tubing prior to sample collection. Water samples are collected from the discharge tubing into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler,

maintained at 4°C for transport to the laboratory. A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: **Chevron #352300** Job Number: **385853**
Site Address: **State Route 274** Event Date: 10.26.13 (inclusive)
City: **Tekoa, WA** Sampler: J.P

Well ID **MW-1** Date Monitored: 10.26.13
Well Diameter **2** in.
Total Depth 8.90 ft.
Depth to Water 6.56 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

1.34 xVF - = - x3 case volume = Estimated Purge Volume: - gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.02

Purge Equipment:		**Sampling Equipment:**	
Disposable Bailer		Disposable Bailer	
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Suction Pump		Peristaltic Pump	x
Grundfos		QED Bladder Pump	
Peristaltic Pump	x	Other:	
QED Bladder Pump			
Other:			

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Start Time (purge): 0806 Weather Conditions: SUN
Sample Time/Date: 0921 / 10.26.13 Water Color: ORANGISH Odor: Y / N MILD
Approx. Flow Rate: 100 mlpm Sediment Description: SILTY ORANGE TO CLEAR
Did well de-water? YES If yes, Time: 0905 Volume: 2 ~~LTR~~ gal. DTW @ Sampling: 6.81

Time (2400 hr.)	Volume (Liters)	pH	Conductivity ~~(µmhos/cm - µS)~~ MS	Temperature (C) / F	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0905	1.90	6.81	.323	15.6	.71	-45.2	8.86

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/VOC's(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	2 x 250ml ambers	YES	NP	LANCASTER	PAH's (8270 SIM)
	x 250ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (6020 ICP/MS)
	1 x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (6020 ICP/MS)
	x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (6020 ICP/MS)
	1 x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (6020 ICP/MS)

COMMENTS: Depth Pump Set At: 8.5'

Add/Replaced Gasket: NL Add/Replaced Bolt: Add/Replaced Plug: NL Add/Replaced Lock: NL

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: **Chevron #352300** Job Number: **385853**

Site Address: **State Route 274** Event Date: 10.26.13 (inclusive)

City: **Tekoa, WA** Sampler: JP

Well ID **MW-2** Date Monitored: 10.26.13

Well Diameter **2** in.

Total Depth 20.30 ft.

Depth to Water 7.93 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☑ Check if water column is less then 0.50 ft.

12.37 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:

Disposable Bailer
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:

Disposable Bailer
Pressure Bailer
Metal Filters
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Start Time (purge): Weather Conditions:

Sample Time/Date: / Water Color: Odor: **Y / N**

Approx. Flow Rate: mlpm Sediment Description:

Did well de-water? If yes, Time: Volume: gal. DTW @ Sampling:

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/VOC's(8260)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	x 250ml ambers	YES	NP	LANCASTER	PAH's (8270 SIM)
	x 250ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (6020 ICP/MS)
	x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (6020 ICP/MS)
	x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (6020 ICP/MS)

COMMENTS: Depth Pump Set At: INFFLUENT WATER COLUMN

Add/Replaced Gasket: R Add/Replaced Bolt: Add/Replaced Plug: R Add/Replaced Lock: R

GETTLER – RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: **Chevron #352300**   Job Number: **385853**
Site Address: **State Route 274**   Event Date: 10.26.13 (inclusive)
City: **Tekoa, WA**   Sampler: V.P

Well ID: MW-3   Date Monitored: 10.26.13
Well Diameter: 2 in.
Total Depth: 9.47 ft.
Depth to Water: 6.91 ft.   ☐ Check if water column is less then 0.50 ft.
2.56 xVF – = – x3 case volume = Estimated Purge Volume: – gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.42

Volume Factor (VF)				
	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:
- Disposable Bailer: ____
- Stainless Steel Bailer: ____
- Stack Pump: ____
- Suction Pump: ____
- Grundfos: ____
- Peristaltic Pump: x
- QED Bladder Pump: ____
- Other: ____

Sampling Equipment:
- Disposable Bailer: ____
- Pressure Bailer: ____
- Metal Filters: ____
- Peristaltic Pump: x
- QED Bladder Pump: ____
- Other: ____

Time Started: ____ (2400 hrs)
Time Completed: ____ (2400 hrs)
Depth to Product: ____ ft
Depth to Water: ____ ft
Hydrocarbon Thickness: ____ ft
Visual Confirmation/Description: ____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ____ gal
Amt Removed from Well: ____ gal
Water Removed: ____ gal
Product Transferred to: ____

Start Time (purge): 0951   Weather Conditions: Sun
Sample Time/Date: 1022 / 10.26.13   Water Color: GREY   Odor: (Y) / N MILD
Approx. Flow Rate: 100 mlpm   Sediment Description: GREYISH TO CLEAR
Did well de-water? NO   If yes, Time: –   Volume: – gal.   DTW @ Sampling: 7.31

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (~~µmhes/cm - µS~~) mS	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1009	1.8	6.75	.514	14.46	1.08	-68.2	7.33
1012	2.1	6.76	.514	14.61	1.11	-67.3	7.49
1015	2.4	6.77	.616	14.80	1.14	-67.0	7.60
1018	2.7	6.77	.616	14.63	1.19	-66.6	7.83

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/VOC's(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	2 x 250ml ambers	YES	NP	LANCASTER	PAH's (8270 SIM)
	1 x 250ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (6020 ICP/MS)
	x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (6020 ICP/MS)
	1 x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (6020 ICP/MS)

COMMENTS: Depth Pump Set At: 9'

Add/Replaced Gasket: R   Add/Replaced Bolt: ____   Add/Replaced Plug: R   Add/Replaced Lock: R

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: **Chevron #352300** Job Number: **385853**

Site Address: **State Route 274** Event Date: 10.26.13 (inclusive)

City: **Tekoa, WA** Sampler: J.P

Well ID MW-4 Date Monitored: 10.26.13

Well Diameter 2 in.

Total Depth 16.16 ft.

Depth to Water 7.33 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

2.77 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.88

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	x
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	
Pressure Bailer	
Metal Filters	
Peristaltic Pump	x
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Start Time (purge): 1063 Weather Conditions: SUN

Sample Time/Date: 1129 / 10-26-13 Water Color: GREY Odor (Y) / N MILD

Approx. Flow Rate: 100 mlpm Sediment Description: GREYISH TO CLEAR

Did well de-water? No If yes, Time: — Volume: — gal. DTW @ Sampling: 7.73

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (MS) (~~µmhos/cm~~ µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1111	1.8	10.91	.657	13.79	.85	-139.9	7.66
1114	2.1	6.91	.656	13.88	.91	-138.6	7.81
1117	2.4	6.92	.656	13.96	.90	-138.0	7.93
1120	2.7	6.92	.657	14.03	1.01	-137.5	8.13

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/VOC's(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	2 x 250ml ambers	YES	NP	LANCASTER	PAH's (8270 SIM)
	1 x 250ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (6020 ICP/MS)
	x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (6020 ICP/MS)
	1 x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (6020 ICP/MS)

COMMENTS: Depth Pump Set At: 9'-10'

Add/Replaced Gasket: R Add/Replaced Bolt: Add/Replaced Plug: R Add/Replaced Lock: R

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: **Chevron #352300** Job Number: **385853**

Site Address: **State Route 274** Event Date: 10.26.13 (inclusive)

City: **Tekoa, WA** Sampler: JP

Well ID **MW-5** Date Monitored: 10.26.13

Well Diameter **2** in.

Total Depth 20.61 ft.

Depth to Water 7.08 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

13.53 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.38

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Water Removed: _____ gal
Product Transferred to: _____

Purge Equipment:		**Sampling Equipment:**	
Disposable Bailer		Disposable Bailer	
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Suction Pump		Peristaltic Pump	x
Grundfos		QED Bladder Pump	
Peristaltic Pump	x	Other:	
QED Bladder Pump			
Other:			

Start Time (purge): 1158 Weather Conditions: SUN

Sample Time/Date: 1238 / 10.26.13 Water Color: GREY Odor: (Y) / N MILD

Approx. Flow Rate: 100 mlpm Sediment Description: GREY TO CLEAR

Did well de-water? YES If yes, Time: 1225 Volume: 2.7 ~~gal.~~ L DTW @ Sampling: 7.30

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (~~µmhos/cm~~ µS) MS	Temperature (C) / F	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1216	1.8	6.806	.484	15.40	1.08	-119.7	7.31
1219	2.1	6.880	.496	15.48	1.13	-120.8	7.53
1222	2.4	6.880	.496	15.57	1.20	-117.0	7.69
1225	2.7	6.884	.487	15.61	1.24	-116.3	7.79

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/VOC's(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	2 x 250ml ambers	YES	NP	LANCASTER	PAH's (8270 SIM)
	1 x 250ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (6020 ICP/MS)
	x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (6020 ICP/MS)
	1 x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (6020 ICP/MS)

COMMENTS: Depth Pump Set At: 8.5

Add/Replaced Gasket: R Add/Replaced Bolt: _____ Add/Replaced Plug: R Add/Replaced Lock: R

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: **Chevron #352300** Job Number: **385853**

Site Address: **State Route 274** Event Date: 10.26.13 (inclusive)

City: **Tekoa, WA** Sampler: J.P

Well ID **MW-6** Date Monitored: 10.26.13

Well Diameter **2** in.

Total Depth 9.72 ft.

Depth to Water 10.01 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

3.74 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.76

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	X
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	
Pressure Bailer	
Metal Filters	
Peristaltic Pump	X
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Start Time (purge): 1301 Weather Conditions: SUN

Sample Time/Date: 1343 / 10.26.13 Water Color: CLEAR Odor: (Y) / N MILD

Approx. Flow Rate: 100 mlpm Sediment Description: GREY TO CLEAR

Did well de-water? YES If yes, Time: 1340 Volume: 1.0 ~~gal.~~ L DTW @ Sampling: 6.72

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (~~µmhos/cm~~ mS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1310	1.0	6.88	.453	14.60	1.01	-9.0	9.66

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-6	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/VOC's(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	2 x 250ml ambers	YES	NP	LANCASTER	PAH's (8270 SIM)
	1 x 250ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (6020 ICP/MS)
	x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (6020 ICP/MS)
	1 x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (6020 ICP/MS)

COMMENTS: Depth Pump Set At: OBSTRUCTION @ 5.25

Add/Replaced Gasket: N Add/Replaced Bolt: ____ Add/Replaced Plug: N Add/Replaced Lock: N

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: **Chevron #352300** Job Number: **385853**
Site Address: **State Route 274** Event Date: 10.26.13 (inclusive)
City: **Tekoa, WA** Sampler: J.P

Well ID **MW-7** Date Monitored: 10.26.13
Well Diameter **2** in.
Total Depth 9.97 ft.
Depth to Water 5.80 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

4.17 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.63

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	X
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	
Pressure Bailer	
Metal Filters	
Peristaltic Pump	X
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Start Time (purge): 1403 Weather Conditions: SUN
Sample Time/Date: 1430 / 10.26.13 Water Color: CLEAR Odor: Y / N
Approx. Flow Rate: 100 mlpm Sediment Description: LIGHT TO CLEAR
Did well de-water? No If yes, Time: — Volume: — gal. DTW @ Sampling: 6.36

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (~~µmhos/cm~~ mS)	Temperature (C) F	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1421	1.8	6.41	.369	15.28	.74	-66.4	6.11
1424	2.1	6.43	.372	15.37	.80	-62.4	6.19
1427	2.4	6.43	.374	15.40	.88	-54.7	6.28
1430	2.7	6.44	.374	15.56	.92	-53.9	6.36

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/VOC's(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	2 x 250ml ambers	YES	NP	LANCASTER	PAH's (8270 SIM)
	1 x 250ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (6020 ICP/MS)
	x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (6020 ICP/MS)
	1 x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (6020 ICP/MS)

COMMENTS: Depth Pump Set At:
COLLECT DUPLICATE SAMPLE

Add/Replaced Gasket: — Add/Replaced Bolt: — Add/Replaced Plug: — Add/Replaced Lock: —

Chevron Northwest Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 11260 For Eurofins Lancaster Laboratories use only Group # 1429893 Sample # 1255883-97

Instructions on reverse side correspond with circled numbers.

(1) Client Information

Please forward the lab results directly to Lead Consultant and cc: G-R.

Facility # SS#352300-OML G-R#385853 WBS

Site Address State Route 274, TEKOA, WA

Chevron PM ER SAICDW Lead Consultant Don E. Wyll

Consultant/Office Gettler-Ryan, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com), (925) 551-7444 x180

Consultant Phone # (425) 482-3315 x

Sampler J. Payne

(2) Sample Identification | Collected Date | Time | **(3)** Grab | Composite | **(4) Matrix**: Soil | Sediment | Water | Ground | Potable | NPDES | Surface | Oil | Air | Total Number of Containers | **(5) Analyses Requested**: BTEX ~~MTBE~~ | 8021 | 8260 | Naphth | 8260 full scan | Oxygenates | NWTPH-Gx | NWTPH-Dx with Silica Gel Cleanup | NWTPH-Dx without Silica Gel Cleanup | WA VPH | WA EPH | Lead | Total | Diss. | Method 6020 | VOC's 8260 | PAH's 8270 SIM

Sample Identification	Date	Time	Grab	Composite	Soil	Water	Oil	Total Containers
QA	10.9.13		X			X		1
MW-1		0930	X			X		12
MW-3		1021	X			X		12
MW-4		1119	X			X		12
MW-5		1230	X			X		12
MW-6		1343	X			X		12
MW-7		1436	X			X		12
DUP			X			X		12

SCR #: _____

- ☐ Results in Dry Weight
- ☐ 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

(6) Remarks

"DISSOLVED LEAD SAMPLES TO BE LAB FILTERED PRIOR TO PRESERVING WITH HNO3."

Amended COC
- Dup added
- QA analysis JMM 10/30/13

(7) Turnaround Time Requested (TAT) (please circle)

(Standard) 5 day 4 day

72 hour 48 hour 24 hour

Relinquished by	Date	Time	Received by	Date	Time
	10.10.13	1400			

(9)

(8) Data Package (circle if required)

Type I - Full

Type VI (Raw Data)

EDD (circle if required) EDF/EDD

CVX-RTBU-FI_05 (default)

Other: _____

Relinquished by Commercial Carrier: UPS X FedEx ____ Other ____

Temperature Upon Receipt 0.8-3.0°C

Received by _____ Date 10.29.13 Time 1015

Custody Seals Intact? (Yes) No

Attachment B:
Laboratory Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

November 20, 2013

Project: 352300

Submittal Date: 10/29/2013
Group Number: 1429893
PO Number: 0015117901
Release Number: SHRILL HOPKINS
State of Sample Origin: WA

Client Sample Description	Lancaster Labs (LL) #
QA Water	7255883
MW-1 Grab Groundwater	7255884
MW-1 Filtered Grab Groundwater	7255885
MW-3 Grab Groundwater	7255886
MW-3 Filtered Grab Groundwater	7255887
MW-4 Grab Groundwater	7255888
MW-4 Filtered Grab Groundwater	7255889
MW-5 Grab Groundwater	7255890
MW-5 Filtered Grab Groundwater	7255891
MW-6 Grab Groundwater	7255892
MW-6 Filtered Grab Groundwater	7255893
MW-7 Grab Groundwater	7255894
MW-7 Filtered Grab Groundwater	7255895
DUP Grab Groundwater	7255896
DUP Filtered Grab Groundwater	7255897

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

ELECTRONIC COPY TO	Gettler-Ryan Inc.	Attn: Gettler Ryan
ELECTRONIC COPY TO	SAIC	Attn: Jamalyn Green
ELECTRONIC COPY TO	SAIC	Attn: Don Wyll

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: QA Water
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255883
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKOQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1

General Sample Comments

State of Washington Lab Certification No. C457

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	F133081AA	11/04/2013 07:12	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F133081AA	11/04/2013 07:12	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13302B20A	10/30/2013 12:51	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13302B20A	10/30/2013 12:51	Catherine J Schwarz	1

Sample Description: MW-1 Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255884
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 09:20 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKO01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: MW-1 Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255884
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 09:20 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKO01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	N.D.	0.010	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Fluoranthene	206-44-0	N.D.	0.010	1
08357	Fluorene	86-73-7	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.030	1
08357	Phenanthrene	85-01-8	N.D.	0.030	1
08357	Pyrene	129-00-0	N.D.	0.010	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
	The reverse surrogate, capric acid, is present at <1%.				
Metals	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	121	0.085	1

Sample Description: MW-1 Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255884
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 09:20 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKO01

General Sample Comments

State of Washington Lab Certification No. C457

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W133082AA	11/05/2013 00:57	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W133082AA	11/05/2013 00:57	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13303WAI026	11/02/2013 23:14	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13303WAI026	10/31/2013 09:40	Anna E Stager	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13302B20A	10/30/2013 17:12	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13302B20A	10/30/2013 17:12	Catherine J Schwarz	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133050023A	11/06/2013 11:15	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133050023A	11/01/2013 16:30	Seth A Farrier	1
06035	Lead	SW-846 6020	1	133096050004A	11/06/2013 19:56	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	133096050004	11/06/2013 10:13	James L Mertz	1

Sample Description: MW-1 Filtered Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255885
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 09:20 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		ug/l	ug/l	
06035	Lead	7439-92-1	0.11	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	133096050005A	11/07/2013 01:31	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	133096050005	11/06/2013 10:13	James L Mertz	1

Sample Description: MW-3 Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255886
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 10:22 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKO03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: MW-3 Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255886
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 10:22 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKO03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	N.D.	0.010	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Fluoranthene	206-44-0	N.D.	0.010	1
08357	Fluorene	86-73-7	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.030	1
08357	Phenanthrene	85-01-8	N.D.	0.030	1
08357	Pyrene	129-00-0	N.D.	0.010	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	30	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	70	1
	The reverse surrogate, capric acid, is present at <1%.				
Metals	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	44.3	0.085	1

Sample Description: MW-3 Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255886
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 10:22 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKO03

General Sample Comments

State of Washington Lab Certification No. C457

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W133082AA	11/05/2013 01:20	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W133082AA	11/05/2013 01:20	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13303WAI026	11/02/2013 23:44	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13303WAI026	10/31/2013 09:40	Anna E Stager	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13302B20A	10/30/2013 17:33	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13302B20A	10/30/2013 17:33	Catherine J Schwarz	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133050023A	11/06/2013 11:37	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133050023A	11/01/2013 16:30	Seth A Farrier	1
06035	Lead	SW-846 6020	1	133096050005A	11/07/2013 01:33	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	133096050005	11/06/2013 10:13	James L Mertz	1

Sample Description: MW-3 Filtered Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255887
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 10:22 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		ug/l	ug/l	
06035	Lead	7439-92-1	0.11	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	133096050005A	11/07/2013 01:38	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	133096050005	11/06/2013 10:13	James L Mertz	1

Sample Description: MW-4 Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255888
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 11:29 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKO04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: MW-4 Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255888
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 11:29 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKO04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	N.D.	0.010	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Fluoranthene	206-44-0	N.D.	0.010	1
08357	Fluorene	86-73-7	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.030	1
08357	Phenanthrene	85-01-8	N.D.	0.030	1
08357	Pyrene	129-00-0	N.D.	0.010	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	30	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	69	1
	The reverse surrogate, capric acid, is present at <1%.				
Metals	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	2.0	0.085	1

Sample Description: MW-4 Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255888
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 11:29 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKO04

General Sample Comments

State of Washington Lab Certification No. C457

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W133082AA	11/05/2013 01:44	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W133082AA	11/05/2013 01:44	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13303WAI026	11/03/2013 00:13	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13303WAI026	10/31/2013 09:40	Anna E Stager	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13302B20A	10/30/2013 17:55	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13302B20A	10/30/2013 17:55	Catherine J Schwarz	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133050023A	11/06/2013 11:59	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133050023A	11/01/2013 16:30	Seth A Farrier	1
06035	Lead	SW-846 6020	1	133096050005A	11/07/2013 01:40	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	133096050005	11/06/2013 10:13	James L Mertz	1

Sample Description: MW-4 Filtered Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255889
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 11:29 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		ug/l	ug/l	
06035	Lead	7439-92-1	0.12	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	133096050005A	11/07/2013 01:41	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	133096050005	11/06/2013 10:13	James L Mertz	1

Sample Description: MW-5 Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255890
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 12:38 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKO05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: MW-5 Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255890
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 12:38 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKO05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	1
08357	Acenaphthylene	208-96-8	0.012	0.010	1
08357	Anthracene	120-12-7	0.014	0.010	1
08357	Benzo(a)anthracene	56-55-3	0.016	0.010	1
08357	Benzo(a)pyrene	50-32-8	0.022	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.037	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.031	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.017	0.010	1
08357	Chrysene	218-01-9	0.023	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Fluoranthene	206-44-0	0.034	0.010	1
08357	Fluorene	86-73-7	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.027	0.010	1
08357	Naphthalene	91-20-3	0.051	0.031	1
08357	Phenanthrene	85-01-8	N.D.	0.031	1
08357	Pyrene	129-00-0	0.030	0.010	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
	The reverse surrogate, capric acid, is present at <1%.				
Metals	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	3.8	0.085	1

Sample Description: MW-5 Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255890
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 12:38 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKO05

General Sample Comments

State of Washington Lab Certification No. C457

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W133082AA	11/05/2013 02:56	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W133082AA	11/05/2013 02:56	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13303WAI026	11/03/2013 00:42	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13303WAI026	10/31/2013 09:40	Anna E Stager	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13302B20A	10/30/2013 18:17	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13302B20A	10/30/2013 18:17	Catherine J Schwarz	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133050023A	11/06/2013 14:11	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133050023A	11/01/2013 16:30	Seth A Farrier	1
06035	Lead	SW-846 6020	1	133096050005A	11/07/2013 01:43	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	133096050005	11/06/2013 10:13	James L Mertz	1

Sample Description: MW-5 Filtered Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255891
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 12:38 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		ug/l	ug/l	
06035	Lead	7439-92-1	0.21	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	133096050005A	11/07/2013 01:45	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	133096050005	11/06/2013 10:13	James L Mertz	1

Sample Description: MW-6 Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255892
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 13:43 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKO06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: MW-6 Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255892
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 13:43 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKO06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	N.D.	0.010	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Fluoranthene	206-44-0	N.D.	0.010	1
08357	Fluorene	86-73-7	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	Naphthalene	91-20-3	0.056	0.030	1
08357	Phenanthrene	85-01-8	N.D.	0.030	1
08357	Pyrene	129-00-0	N.D.	0.010	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	51	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	69	1
	The reverse surrogate, capric acid, is present at <1%.				
Metals	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	22.3	0.085	1

Sample Description: MW-6 Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255892
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 13:43 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKO06

General Sample Comments

State of Washington Lab Certification No. C457

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W133082AA	11/05/2013 03:20	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W133082AA	11/05/2013 03:20	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13303WAI026	11/04/2013 13:09	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13303WAI026	10/31/2013 09:40	Anna E Stager	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13302B20A	10/30/2013 18:38	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13302B20A	10/30/2013 18:38	Catherine J Schwarz	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133050023A	11/06/2013 12:21	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133050023A	11/01/2013 16:30	Seth A Farrier	1
06035	Lead	SW-846 6020	1	133096050005A	11/07/2013 01:47	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	133096050005	11/06/2013 10:13	James L Mertz	1

Sample Description: MW-6 Filtered Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255893
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 13:43 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		ug/l	ug/l	
06035	Lead	7439-92-1	0.39	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	133096050005A	11/07/2013 01:49	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	133096050005	11/06/2013 10:13	James L Mertz	1

Sample Description: MW-7 Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255894
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 14:36 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKO07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	0.5	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	4	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	2	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	1	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	2	1	1
10335	p-Isopropyltoluene	99-87-6	1	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	3	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: MW-7 Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255894
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 14:36 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKO07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	9	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	0.6	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	0.6	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	0.48	0.10	10
08357	Acenaphthylene	208-96-8	0.40	0.10	10
08357	Anthracene	120-12-7	0.58	0.10	10
08357	Benzo(a)anthracene	56-55-3	0.59	0.10	10
08357	Benzo(a)pyrene	50-32-8	0.49	0.10	10
08357	Benzo(b)fluoranthene	205-99-2	0.54	0.10	10
08357	Benzo(g,h,i)perylene	191-24-2	0.60	0.10	10
08357	Benzo(k)fluoranthene	207-08-9	0.56	0.10	10
08357	Chrysene	218-01-9	0.53	0.10	10
08357	Dibenz(a,h)anthracene	53-70-3	0.58	0.10	10
08357	Fluoranthene	206-44-0	0.55	0.10	10
08357	Fluorene	86-73-7	0.62	0.10	10
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.58	0.10	10
08357	Naphthalene	91-20-3	0.56	0.31	10
08357	Phenanthrene	85-01-8	0.56	0.31	10
08357	Pyrene	129-00-0	0.54	0.10	10
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	170	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	530	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	69	1

Due to the presence of fuel in the sample extract, capric acid recovery can not be determined.
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the

Sample Description: MW-7 Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255894
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 14:36 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKO07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
	first trial. Similar results were obtained in both trials.				
Metals		**SW-846 6020**	ug/l	ug/l	
06035	Lead	7439-92-1	37.6	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W133082AA	11/05/2013 03:44	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W133082AA	11/05/2013 03:44	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13303WAI026	11/04/2013 13:38	Chad A Moline	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13303WAI026	10/31/2013 09:40	Anna E Stager	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13302B20A	10/30/2013 19:00	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13302B20A	10/30/2013 19:00	Catherine J Schwarz	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133050023A	11/06/2013 12:43	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133050023A	11/01/2013 16:30	Seth A Farrier	1
06035	Lead	SW-846 6020	1	133096050005A	11/07/2013 01:50	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	133096050005	11/06/2013 10:13	James L Mertz	1

Sample Description: MW-7 Filtered Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255895
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 14:36 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		ug/l	ug/l	
06035	Lead	7439-92-1	0.15	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	133096050005A	11/07/2013 01:52	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	133096050005	11/06/2013 10:13	James L Mertz	1

Sample Description: DUP Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255896
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKOFD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	0.7	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	5	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	2	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	2	0.5	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	3	1	1
10335	p-Isopropyltoluene	99-87-6	2	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	4	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1

Sample Description: DUP Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255896
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKOFD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	12	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	0.8	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	0.8	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	N.D.	0.010	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Fluoranthene	206-44-0	N.D.	0.010	1
08357	Fluorene	86-73-7	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.030	1
08357	Phenanthrene	85-01-8	N.D.	0.030	1
08357	Pyrene	129-00-0	N.D.	0.010	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	860	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	450	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
	The reverse surrogate, capric acid, is present at <1%.				
Metals	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	64.3	0.085	1

Sample Description: DUP Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255896
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

TKOFD

General Sample Comments

State of Washington Lab Certification No. C457

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Solvent Compound - Water	SW-846 8260B	1	W133082AA	11/05/2013 04:08	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W133082AA	11/05/2013 04:08	Christopher G Torres	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13303WAI026	11/03/2013 01:10	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13303WAI026	10/31/2013 09:40	Anna E Stager	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13303A53A	10/30/2013 21:04	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	13303A53A	10/30/2013 21:04	Marie D Beamenderfer	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	133050023A	11/06/2013 13:05	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	133050023A	11/01/2013 16:30	Seth A Farrier	1
06035	Lead	SW-846 6020	1	133096050002A	11/06/2013 09:22	Deborah A Krady	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	133096050002	11/05/2013 22:30	Annamaria Stipkovits	1

Sample Description: DUP Filtered Grab Groundwater
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

LL Sample # WW 7255897
LL Group # 1429893
Account # 11260

Project Name: 352300

Collected: 10/26/2013 by JP

Submitted: 10/29/2013 10:15
Reported: 11/20/2013 14:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		ug/l	ug/l	
06035	Lead	7439-92-1	0.12	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	133096050002A	11/06/2013 09:24	Deborah A Krady	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	133096050002	11/05/2013 22:30	Annamaria Stipkovits	1

Quality Control Summary

Client Name: Chevron Group Number: 1429893
Reported: 11/20/13 at 02:21 PM

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

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F133081AA	Sample number(s): 7255883							
Benzene	N.D.	0.5	ug/l	91		78-120		
Ethylbenzene	N.D.	0.5	ug/l	86		79-120		
Toluene	N.D.	0.5	ug/l	90		80-120		
Xylene (Total)	N.D.	0.5	ug/l	86		80-120		
Batch number: W133082AA	Sample number(s): 7255884,7255886,7255888,7255890,7255892,7255894,7255896							
Acetone	N.D.	6.	ug/l	88		38-157		
Benzene	N.D.	0.5	ug/l	102		78-120		
Bromobenzene	N.D.	1.	ug/l	97		80-120		
Bromochloromethane	N.D.	1.	ug/l	92		80-121		
Bromodichloromethane	N.D.	1.	ug/l	87		73-120		
Bromoform	N.D.	1.	ug/l	86		61-120		
Bromomethane	N.D.	1.	ug/l	87		51-120		
2-Butanone	N.D.	3.	ug/l	87		58-126		
n-Butylbenzene	N.D.	1.	ug/l	108		80-120		
sec-Butylbenzene	N.D.	1.	ug/l	108		80-120		
tert-Butylbenzene	N.D.	1.	ug/l	102		80-120		
Carbon Disulfide	N.D.	1.	ug/l	96		58-126		
Carbon Tetrachloride	N.D.	1.	ug/l	84		74-130		
Chlorobenzene	N.D.	0.8	ug/l	100		80-120		
Chloroethane	N.D.	1.	ug/l	96		45-120		
Chloroform	N.D.	0.8	ug/l	92		77-122		
Chloromethane	N.D.	1.	ug/l	96		55-120		
2-Chlorotoluene	N.D.	1.	ug/l	99		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	98		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	79		56-120		
Dibromochloromethane	N.D.	1.	ug/l	92		72-120		
1,2-Dibromoethane	N.D.	0.5	ug/l	92		76-120		
Dibromomethane	N.D.	1.	ug/l	91		80-120		
1,2-Dichlorobenzene	N.D.	1.	ug/l	100		80-120		
1,3-Dichlorobenzene	N.D.	1.	ug/l	101		80-120		
1,4-Dichlorobenzene	N.D.	1.	ug/l	99		80-120		
Dichlorodifluoromethane	N.D.	2.	ug/l	85		35-122		
1,1-Dichloroethane	N.D.	1.	ug/l	96		80-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	84		71-130		
1,1-Dichloroethene	N.D.	0.8	ug/l	100		76-124		
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	99		80-120		
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	101		80-120		
1,2-Dichloropropane	N.D.	1.	ug/l	103		80-120		
1,3-Dichloropropane	N.D.	1.	ug/l	97		80-120		
2,2-Dichloropropane	N.D.	1.	ug/l	87		67-124		
1,1-Dichloropropene	N.D.	1.	ug/l	95		80-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	103		80-120		

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

Quality Control Summary

Client Name: Chevron Group Number: 1429893
Reported: 11/20/13 at 02:21 PM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
trans-1,3-Dichloropropene	N.D.	1.	ug/l	91		69-120		
Ethylbenzene	N.D.	0.5	ug/l	96		79-120		
Hexachlorobutadiene	N.D.	2.	ug/l	97		50-133		
2-Hexanone	N.D.	3.	ug/l	87		59-125		
Isopropylbenzene	N.D.	1.	ug/l	98		77-120		
p-Isopropyltoluene	N.D.	1.	ug/l	104		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	89		75-120		
4-Methyl-2-pentanone	N.D.	3.	ug/l	83		59-120		
Methylene Chloride	N.D.	2.	ug/l	104		80-120		
Naphthalene	N.D.	1.	ug/l	94		47-126		
n-Propylbenzene	N.D.	1.	ug/l	105		80-120		
Styrene	N.D.	1.	ug/l	99		80-120		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	92		80-120		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	100		70-120		
Tetrachloroethene	N.D.	0.8	ug/l	101		80-120		
Toluene	N.D.	0.5	ug/l	101		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	101		58-126		
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	99		65-120		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	85		66-126		
1,1,2-Trichloroethane	N.D.	0.8	ug/l	96		80-120		
Trichloroethene	N.D.	1.	ug/l	98		80-120		
Trichlorofluoromethane	N.D.	2.	ug/l	78		65-130		
1,2,3-Trichloropropane	N.D.	1.	ug/l	90		76-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	100		74-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	102		74-120		
Vinyl Chloride	N.D.	1.	ug/l	96		63-120		
m+p-Xylene	N.D.	0.5	ug/l	99		80-120		
o-Xylene	N.D.	0.5	ug/l	100		80-120		
Xylene (Total)	N.D.	0.5	ug/l	99		80-120		
Batch number: 13303WAI026	Sample number(s): 7255884,7255886,7255888,7255890,7255892,7255894,7255896							
Acenaphthene	N.D.	0.010	ug/l	103	105	77-118	2	30
Acenaphthylene	N.D.	0.010	ug/l	109	110	80-123	1	30
Anthracene	N.D.	0.010	ug/l	107	110	78-123	3	30
Benzo(a)anthracene	N.D.	0.010	ug/l	103	105	73-127	2	30
Benzo(a)pyrene	N.D.	0.010	ug/l	98	101	72-120	4	30
Benzo(b)fluoranthene	N.D.	0.010	ug/l	103	109	79-136	6	30
Benzo(g,h,i)perylene	N.D.	0.010	ug/l	99	104	64-130	5	30
Benzo(k)fluoranthene	N.D.	0.010	ug/l	116	120	73-131	4	30
Chrysene	N.D.	0.010	ug/l	101	104	76-125	3	30
Dibenz(a,h)anthracene	N.D.	0.010	ug/l	89	96	58-131	8	30
Fluoranthene	N.D.	0.010	ug/l	109	111	79-124	2	30
Fluorene	N.D.	0.010	ug/l	109	110	74-115	1	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	ug/l	95	99	62-130	4	30
Naphthalene	N.D.	0.030	ug/l	104	105	75-120	1	30
Phenanthrene	N.D.	0.030	ug/l	98	99	75-120	1	30
Pyrene	N.D.	0.010	ug/l	97	97	71-130	1	30
Batch number: 13302B20A	Sample number(s): 7255883-7255884,7255886,7255888,7255890,7255892,7255894							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	104	105	75-135	2	30
Batch number: 13303A53A	Sample number(s): 7255896							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	104	103	75-135	1	30
Batch number: 133050023A	Sample number(s): 7255884,7255886,7255888,7255890,7255892,7255894,7255896							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	56	55	32-117	3	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: 1429893
Reported: 11/20/13 at 02:21 PM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 133096050002A	Sample number(s): 7255896-7255897							
Lead	N.D.	0.085	ug/l	107		90-110		
Batch number: 133096050004A	Sample number(s): 7255884							
Lead	N.D.	0.085	ug/l	103		90-110		
Batch number: 133096050005A	Sample number(s): 7255885-7255895							
Lead	N.D.	0.085	ug/l	104		90-110		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: F133081AA	Sample number(s): 7255883 UNSPK: P255601								
Benzene	99	100	72-134	0	30				
Ethylbenzene	93	93	71-134	1	30				
Toluene	96	97	80-125	1	30				
Xylene (Total)	95	96	79-125	1	30				
Batch number: W133082AA	Sample number(s): 7255884,7255886,7255888,7255890,7255892,7255894,7255896 UNSPK: 7255888								
Acetone	82	79	35-144	4	30				
Benzene	98	97	72-134	1	30				
Bromobenzene	92	90	82-115	3	30				
Bromochloromethane	88	95	76-134	7	30				
Bromodichloromethane	82	81	38-137	1	30				
Bromoform	80	79	48-118	2	30				
Bromomethane	88	90	47-129	2	30				
2-Butanone	78	77	53-124	2	30				
n-Butylbenzene	109	108	74-134	1	30				
sec-Butylbenzene	110	109	79-125	0	30				
tert-Butylbenzene	100	101	81-121	1	30				
Carbon Disulfide	100	96	53-149	4	30				
Carbon Tetrachloride	90	88	72-135	2	30				
Chlorobenzene	96	95	87-124	1	30				
Chloroethane	100	98	51-145	2	30				
Chloroform	89	88	81-134	1	30				
Chloromethane	100	101	50-131	1	30				
2-Chlorotoluene	98	96	82-118	2	30				
4-Chlorotoluene	96	96	84-122	1	30				
1,2-Dibromo-3-chloropropane	71	68	54-134	4	30				
Dibromochloromethane	87	85	74-116	2	30				
1,2-Dibromoethane	87	86	77-116	1	30				
Dibromomethane	82*	82*	83-119	0	30				
1,2-Dichlorobenzene	93	95	84-119	2	30				
1,3-Dichlorobenzene	98	96	86-121	2	30				
1,4-Dichlorobenzene	95	95	85-121	1	30				
Dichlorodifluoromethane	105	107	52-129	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 Group Number: 1429893
Reported: 11/20/13 at 02:21 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1-Dichloroethane	95	92	84-129	3	30				
1,2-Dichloroethane	79	76	68-131	3	30				
1,1-Dichloroethene	103	104	75-155	0	30				
cis-1,2-Dichloroethene	96	96	80-141	0	30				
trans-1,2-Dichloroethene	98	101	81-142	3	30				
1,2-Dichloropropane	99	99	83-124	1	30				
1,3-Dichloropropane	91	89	81-120	2	30				
2,2-Dichloropropane	88	85	69-135	3	30				
1,1-Dichloropropene	99	97	86-137	2	30				
cis-1,3-Dichloropropene	95	95	70-116	0	30				
trans-1,3-Dichloropropene	84	81	74-119	4	30				
Ethylbenzene	96	95	71-134	0	30				
Hexachlorobutadiene	102	100	56-134	2	30				
2-Hexanone	78	77	55-127	2	30				
Isopropylbenzene	99	98	75-128	1	30				
p-Isopropyltoluene	105	104	76-123	0	30				
Methyl Tertiary Butyl Ether	82	81	72-126	2	30				
4-Methyl-2-pentanone	75	74	63-123	1	30				
Methylene Chloride	99	93	78-133	6	30				
Naphthalene	85	86	52-125	1	30				
n-Propylbenzene	104	104	74-134	0	30				
Styrene	96	95	78-125	2	30				
1,1,1,2-Tetrachloroethane	90	85	74-136	6	30				
1,1,2,2-Tetrachloroethane	92	92	72-128	0	30				
Tetrachloroethene	102	101	80-128	1	30				
Toluene	100	99	80-125	1	30				
1,2,3-Trichlorobenzene	94	96	50-138	1	30				
1,2,4-Trichlorobenzene	94	93	56-137	1	30				
1,1,1-Trichloroethane	86	85	69-140	1	30				
1,1,2-Trichloroethane	92	90	71-141	3	30				
Trichloroethene	97	95	88-133	1	30				
Trichlorofluoromethane	93	94	64-146	1	30				
1,2,3-Trichloropropane	80	80	76-118	0	30				
1,2,4-Trimethylbenzene	98	96	72-130	1	30				
1,3,5-Trimethylbenzene	100	98	65-132	2	30				
Vinyl Chloride	102	106	66-133	4	30				
m+p-Xylene	98	95	79-125	3	30				
o-Xylene	96	94	79-125	2	30				
Xylene (Total)	97	95	79-125	2	30				
Batch number: 133096050002A	Sample number(s): 7255896-7255897 UNSPK: P256015 BKG: P256015								
Lead	107	101	89-120	6	20	N.D.	N.D.	0 (1)	20
Batch number: 133096050004A	Sample number(s): 7255884 UNSPK: 7255884 BKG: 7255884								
Lead	147 (2)	136 (2)	89-120	1	20	121	125	3	20
Batch number: 133096050005A	Sample number(s): 7255885-7255895 UNSPK: P256054 BKG: P256054								
Lead	173 (2)	131 (2)	89-120	5	20	106	108	2	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: 1429893
Reported: 11/20/13 at 02:21 PM

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: UST VOCs by 8260B - Water
Batch number: F133081AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7255883	96	98	100	94
Blank	96	100	100	96
LCS	94	99	101	98
MS	95	98	101	98
MSD	96	101	101	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 Ext. Water Master w/GRO
Batch number: W133082AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7255884	93	98	100	93
7255886	93	99	99	93
7255888	93	102	99	93
7255890	92	100	99	91
7255892	93	99	99	92
7255894	91	98	100	96
7255896	93	98	101	98
Blank	93	102	100	91
LCS	94	105	101	96
MS	95	102	101	98
MSD	94	100	100	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM
Batch number: 13303WAI026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7255884	84	92	112
7255886	56	18*	101
7255888	84	94	112
7255890	88	104	116
7255892	62	44*	96
7255894	101	97	147*
7255896	77	99	136
Blank	116	113	120
LCS	106	106	116
LCSD	107	111	119
Limits:	44-137	62-141	51-136

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 13302B20A

	Trifluorotoluene-F
7255883	91

*- 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: 1429893
Reported: 11/20/13 at 02:21 PM

Surrogate Quality Control

7255884	92
7255886	92
7255888	92
7255890	97
7255892	93
7255894	95
Blank	92
LCS	97
LCSD	100
Limits:	63-135

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 13303A53A
Trifluorotoluene-F

7255896	79
Blank	74
LCS	81
LCSD	80
Limits:	63-135

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 133050023A
Orthoterphenyl

7255884	81
7255886	121
7255888	151*
7255890	144
7255892	141
7255894	153*
7255896	148
Blank	79
LCS	81
LCSD	79
Limits:	50-150

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

Chevron Northwest Region Analysis Request/Chain of Custody

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Acct. # 11260 For Eurofins Lancaster Laboratories use only Group # 1429893 Sample # 7255883-97

Instructions on reverse side correspond with circled numbers.

(1) Client Information — Please forward the lab results directly to the Lead Consultant and cc: G-R.

Facility # SS#352300-OML G-R#385853 WBS

Site Address State Route 274, TEKOA, WA

Chevron PM ER SAICDW Lead Consultant Don E. Wyll

Consultant/Office Gettler-Ryan, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com), (925) 551-7444 x180

Consultant Phone # (425) 482-3315 x

Sampler J. Payne

SCR #: ______

(4) Matrix: Sediment ☐, Ground ☑, Surface ☐, Soil ☐, Water (Potable ☐, NPDES ☐), Oil ☐, Air ☐

(5) Analyses Requested: BTEX + MTBE 8021 ☐ 8260 ☑ Naphth ☐; 8260 full scan; Oxygenates; NWTPH-Gx; NWTPH-Dx with Silica Gel Cleanup ☑; NWTPH-Dx without Silica Gel Cleanup ☐; WA VPH ☐; WA EPH ☐; Lead Total ☑ Diss. ☑ Method 6020; VOC's 8260; PAH's 8270 SIM

(2) Sample Identification	Collected Date	Collected Time	(3) Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX 8021/8260	8260 full scan	Oxygenates	NWTPH-Gx	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA VPH	Lead	VOC's 8260	PAH's 8270 SIM
QA	10-28		X			X		1	X			X	~~X~~			~~X~~	~~X~~	~~X~~
MW-1	↓	0920	X			X		12				X	X			X	X	X
MW-3		1022	X			X		12				X	X			X	X	X
MW-4		1119	X			X		12				X	X			X	X	X
MW-5		1230	X			X		12				X	X			X	X	X
MW-6		1343	X			X		12				X	X			X	X	X
MW-7	↓	1430	X			X		12				X	X			X	X	X
DUP			X			X		12				X	X			X	X	X

☐ Results in Dry Weight
☐ 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

(6) Remarks

"DISSOLVED LEAD SAMPLES TO BE LAB FILTERED PRIOR TO PRESERVING WITH HNO3."

Amended COC
- Dup added
- QA analysis
JMM 10/30/13

(7) Turnaround Time Requested (TAT) (please circle)

(Standard) 5 day 4 day

72 hour 48 hour 24 hour

(8) Data Package (circle if required)

Type I - Full

Type VI (Raw Data)

EDD (circle if required) EDF/EDD

CVX-RTBU-FI_05 (default)

Other: ______

Relinquished by	Date	Time	Received by	Date	Time
[signature]	10-28-13	1400			
Relinquished by			Received by		
Relinquished by Commercial Carrier: UPS X FedEx ___ Other ___			Received by [signature]	10-29-13	1015

(9)

Temperature Upon Receipt 0.8-3.0 °C

Custody Seals Intact? (Yes) No

Eurofins Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories. The yellow copy should be retained by the client.

Issued by Dept. 40 Management 7051.03

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

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

> greater than

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

ppb parts per billion

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

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP 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
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 sample 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 meet all requirements of NELAC unless otherwise noted under the individual analysis.

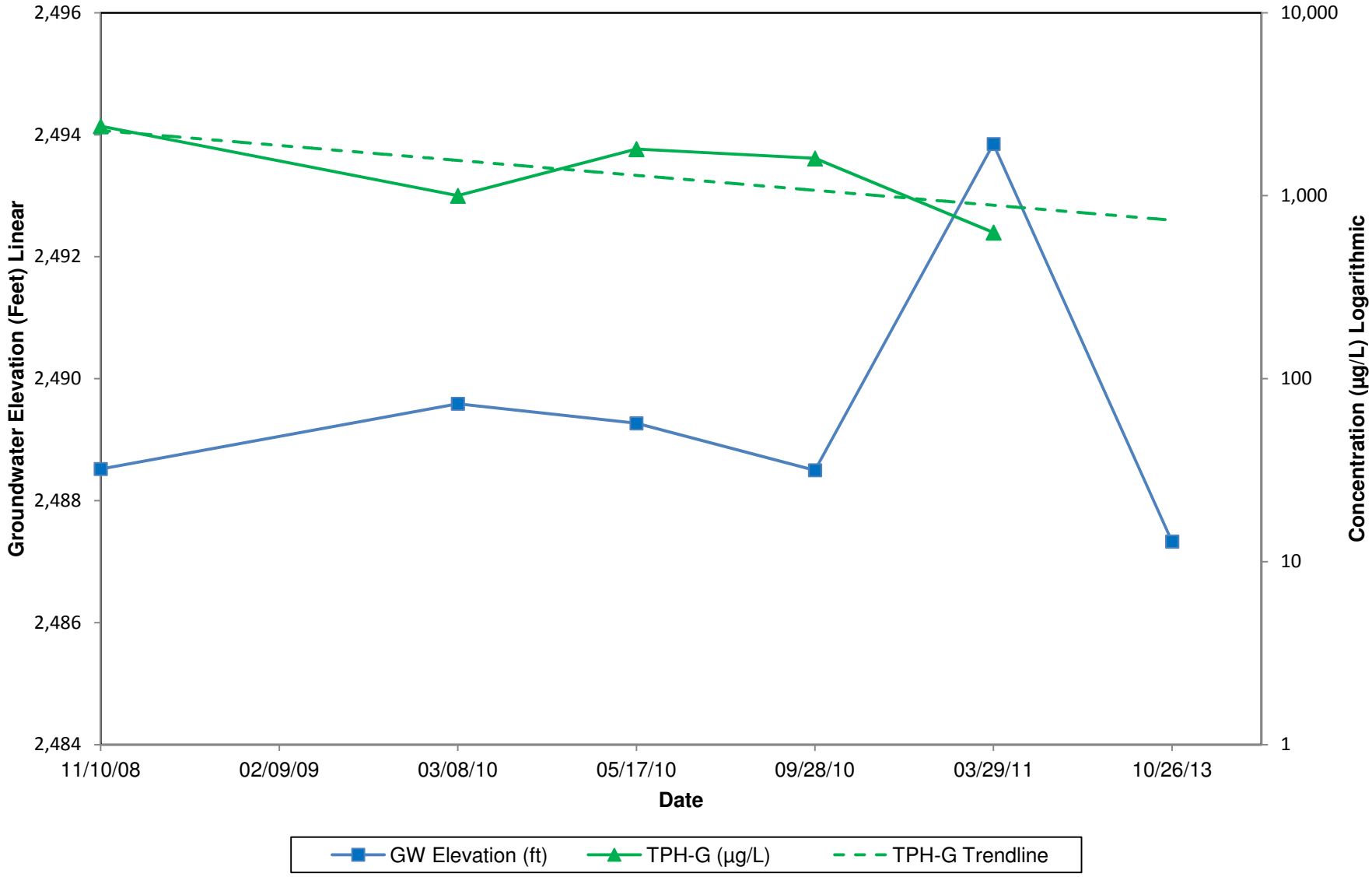
Measurement uncertainty values, as applicable, are available upon request.

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

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

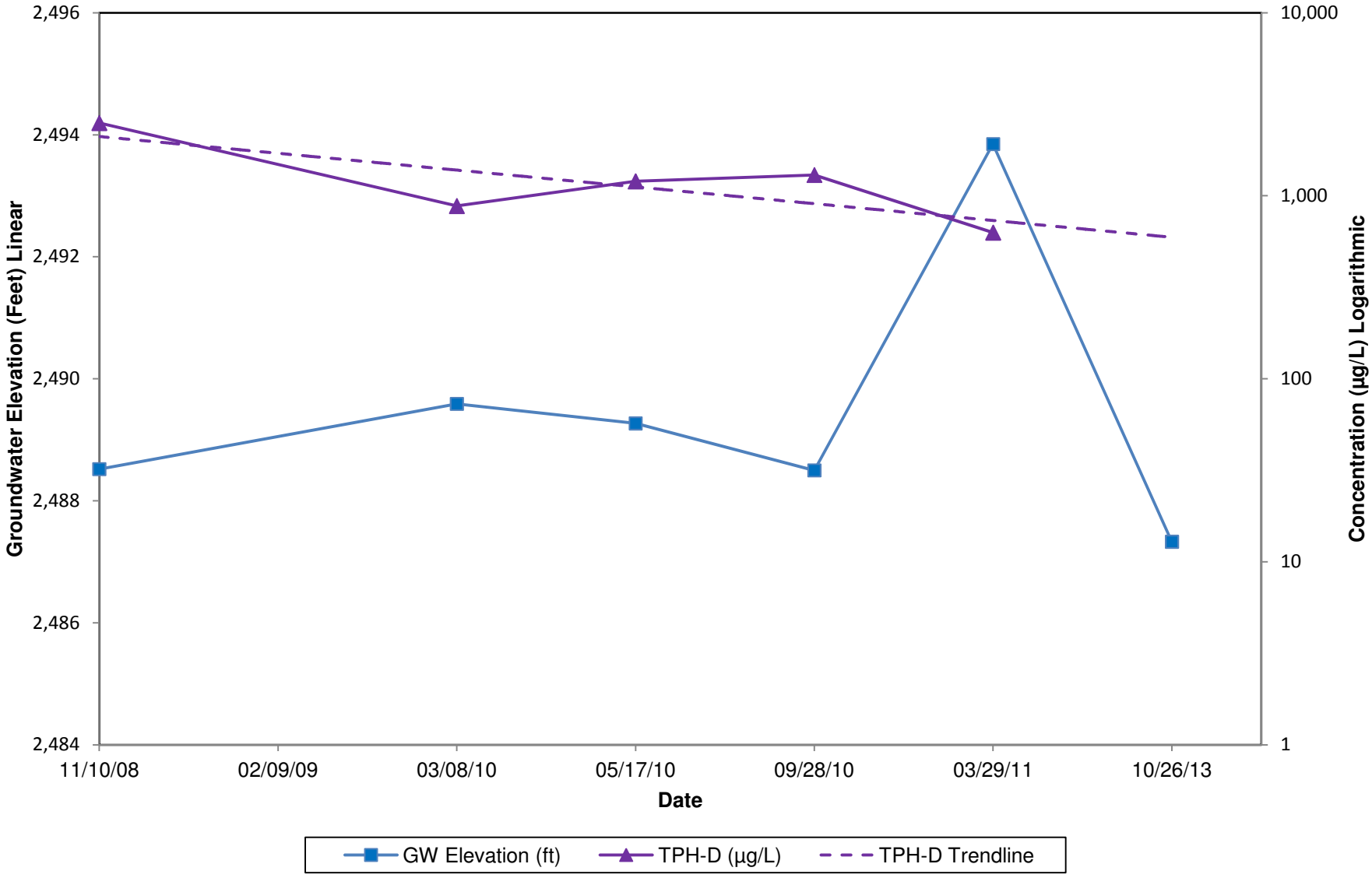
Attachment C:
Hydrographs

MW-2
Hydrograph - Gasoline-Range Hydrocarbons
Chevron Bulk Plant Facility No. 352300
State Route 274. Tekoa, Washington



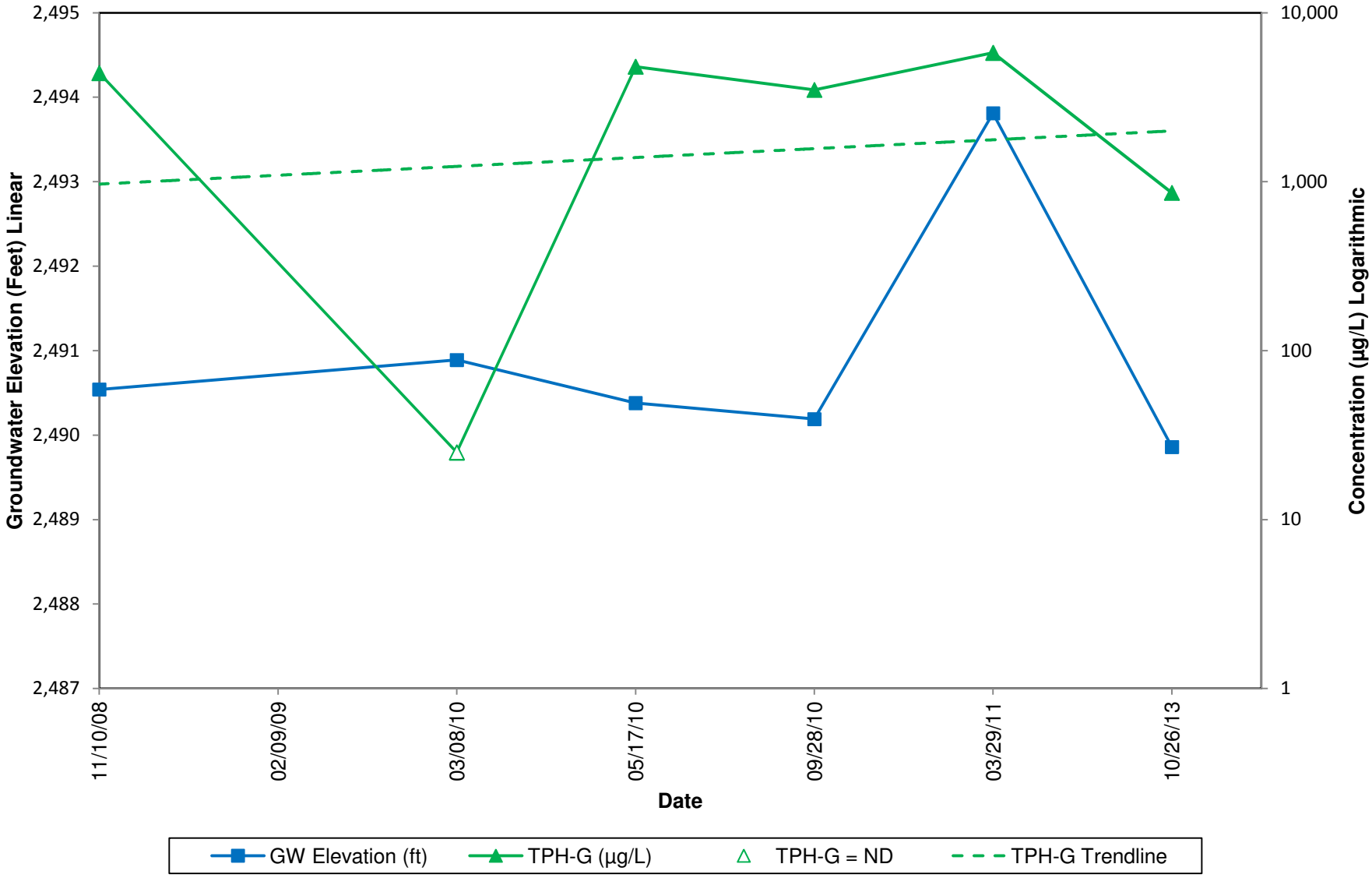
leidos

MW-2
Hydrograph - Diesel-Range Hydrocarbons
Chevron Bulk Plant Facility No. 352300
State Route 274. Tekoa, Washington



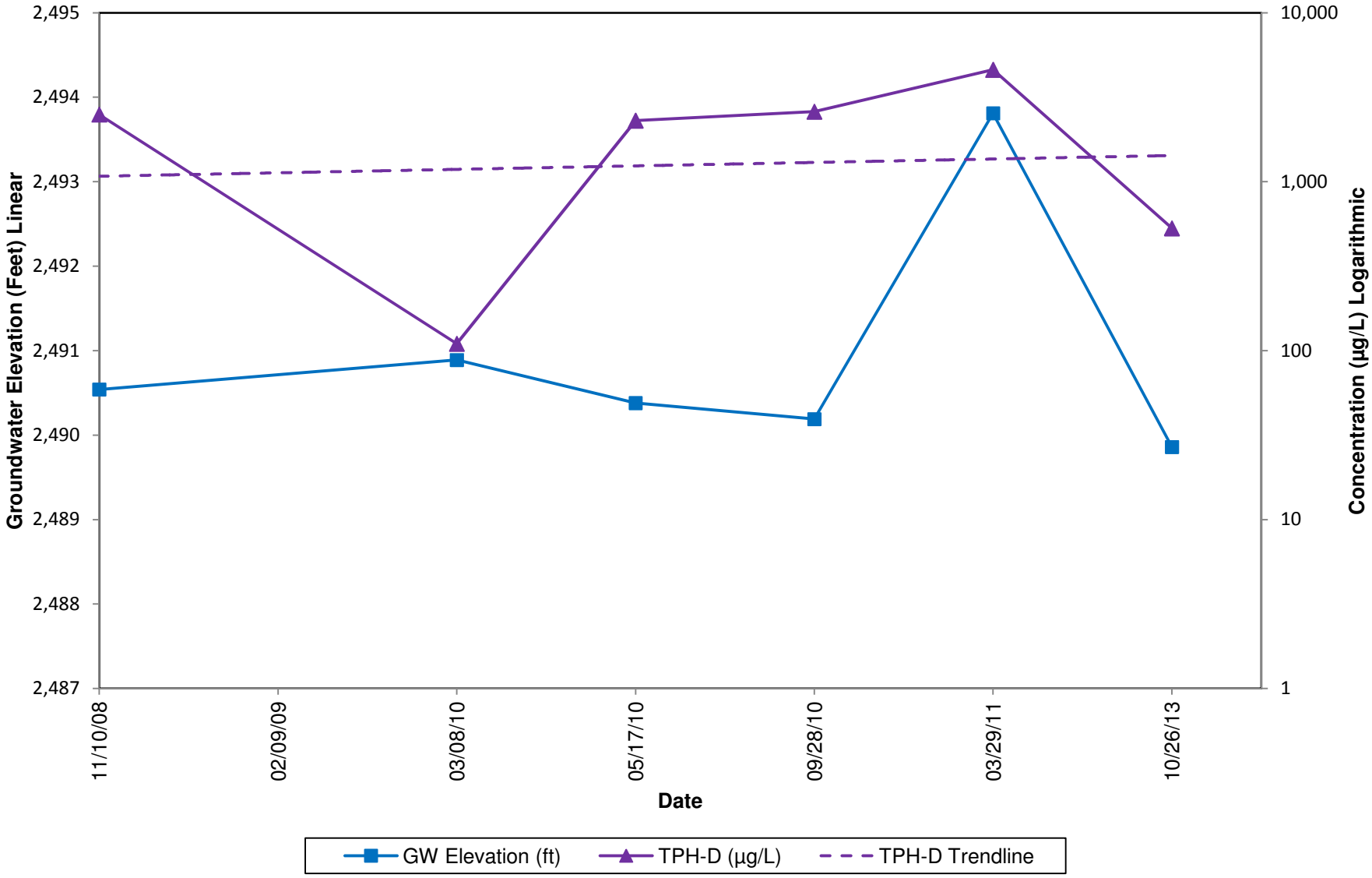
leidos

MW-7
Hydrograph - Gasoline-Range Hydrocarbons
Chevron Bulk Plant Facility No. 352300
State Route 274. Tekoa, Washington



leidos

MW-7
Hydrograph - Diesel-Range Hydrocarbons
Chevron Bulk Plant Facility No. 352300
State Route 274. Tekoa, Washington



leidos