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Seattle

Release

March 21, 2012

Mr. Mark Horne
Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, California 94583

Subject: **Fourth Quarter 2011 Groundwater Monitoring and Sampling Report
Former Tidewater Service Station No. 30-3189
7301 Martin Luther King Jr. Way South
Seattle, Washington**

EG 8747316

Dear Mr. Horne:

SAIC Energy, Environment & Infrastructure, LLC (SAIC), on behalf of Chevron Environmental Management Company (CEMC), prepared this letter summarizing the fourth quarter 2011 groundwater monitoring and sampling event at former Tidewater Service Station No. 30-3189 (the site) in Seattle, Washington (Figure 1).

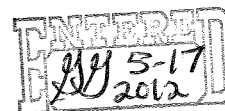
FIELD ACTIVITIES

Gettler-Ryan Inc. (Gettler-Ryan) conducted the groundwater monitoring and sampling field event on November 22, 2011. They collected depth-to-groundwater measurements and checked for the presence of separate-phase hydrocarbons (SPH) in three monitoring wells on site.

Groundwater samples were collected from two of the three monitoring wells. Monitoring well MW-2 was not sampled due the presence of SPH. Samples were submitted to Lancaster Laboratories, Inc. in Pennsylvania for the following analyses:

- Total petroleum hydrocarbons (TPH) as gasoline-range organics (TPH-GRO) by Washington State Department of Ecology (Ecology) Method NWTPH-Gx;
- TPH as diesel-range organics (TPH-DRO) and TPH as heavy oil-range organics (TPH-HRO) by Ecology Method NWTPH-Dx extended with silica-gel cleanup; and
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by United States Environmental Protection Agency Method 8260B.

Field data sheets are provided in the Gettler-Ryan groundwater monitoring and sampling data package (Attachment A).



FINDINGS

Groundwater flow could not be determined during this monitoring event, but historical groundwater flow direction has been to the northeast (Figure 2).

SPH were detected in monitoring well MW-2 at an undetermined thickness.

No analytes were detected at concentrations exceeding their respective Model Toxics Control Act (MTCA) Method A cleanup levels (CULs).

Historical groundwater elevation data, SPH thickness data, and laboratory analytical results are summarized in Table 1. The laboratory analysis report is provided as Attachment B.

DISCUSSION

Groundwater elevations are consistent with historical data reported at the site.

SPH were detected in monitoring well MW-2 for the second time since sampling began in August of 2007. However, product residue has been reported on sample tubing in the past. SPH thickness could not be determined during this monitoring event.

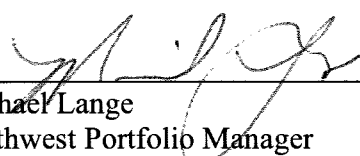
Petroleum-hydrocarbon constituent concentrations are generally consistent with respect to historical data. Dissolved-phase petroleum hydrocarbon concentrations continue to fluctuate with seasonal changes in monitoring well MW-1. Petroleum hydrocarbon constituents decline to concentrations below MTCA Method A CULs during high groundwater periods in November.

Gettler-Ryan will continue to perform groundwater monitoring and sampling on a quarterly basis. The next groundwater monitoring and sampling event is scheduled for February 2012.


If you have any questions or comments, please contact me at (425) 482-3319 or via email at langem@saic.com.

Sincerely,

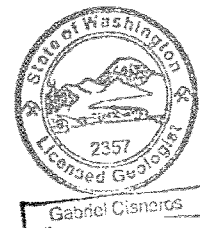
SAIC Energy, Environment & Infrastructure, LLC



Michael Lange
Northwest Portfolio Manager



Gabriel Cisneros, LG #2357
Geologist



Enclosures:

Figure 1 – Vicinity Map

Figure 2 – Site Map

Table 1 – Groundwater Monitoring Data and Analytical Results

Attachment A – Groundwater Monitoring and Sampling Data Package

Attachment B – Laboratory Analysis Report

cc: Ms. Donna Musa – Ecology NW Region, Toxics Cleanup Program
3190 160th Avenue SE, Bellevue, WA 98008-5452
Mr. Larry Hard – Seattle Housing Authority
120 Sixth Avenue North, P.O Box 19028, Seattle, WA 98109-1028
Project File

REPORT LIMITATIONS

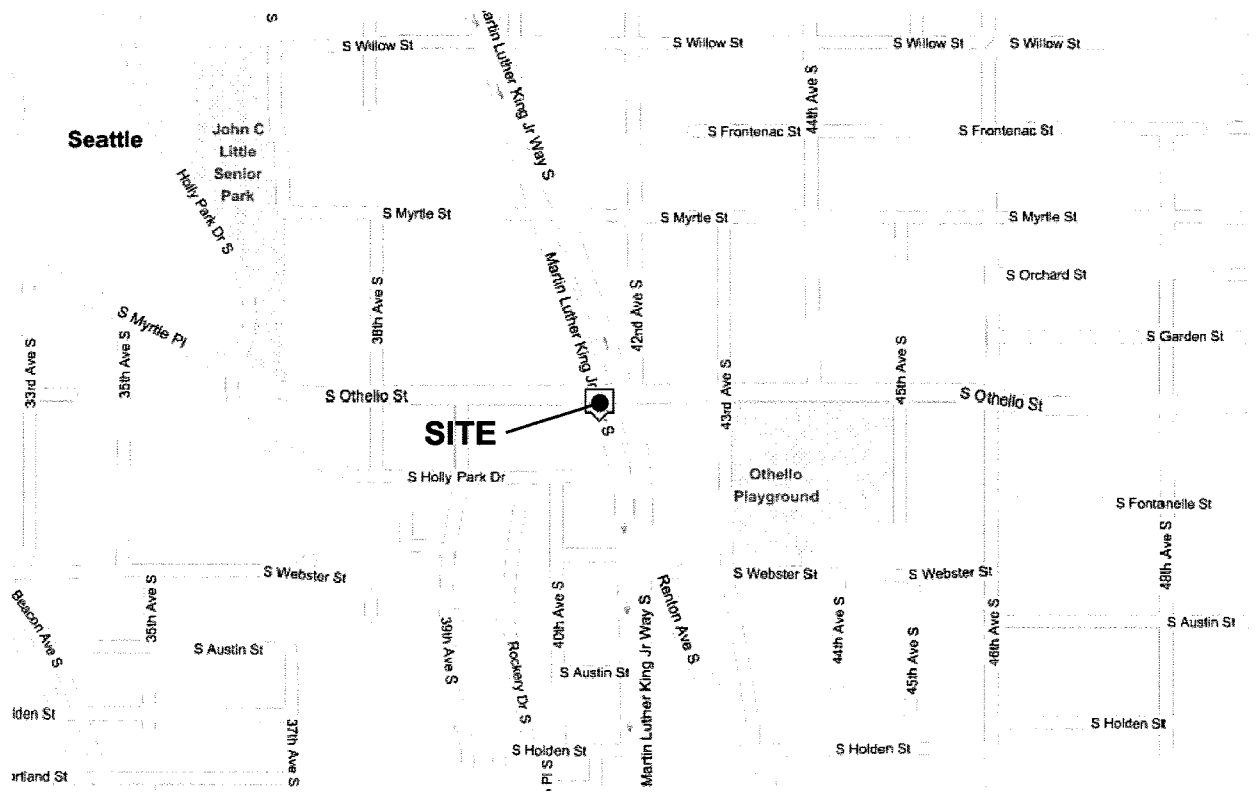
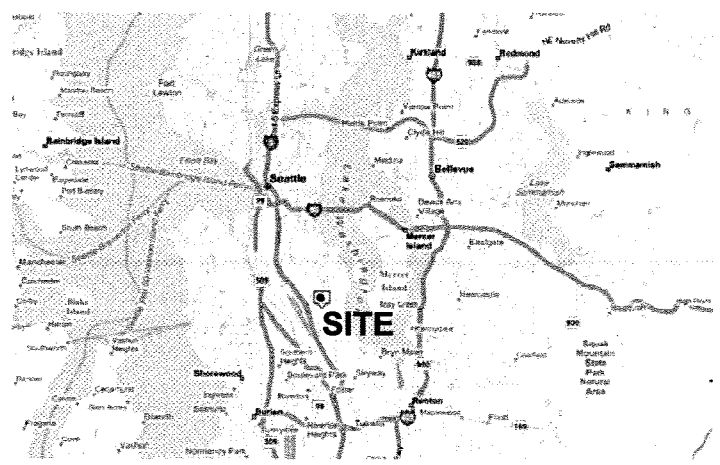
This technical document was prepared on behalf of Chevron and is intended for its sole use and for use by the local, state or federal regulatory agency that the technical document was sent to by SAIC. Any other person or entity obtaining, using, or relying on this technical document hereby acknowledges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

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

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

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

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



Maps Provided by Seattle.gov



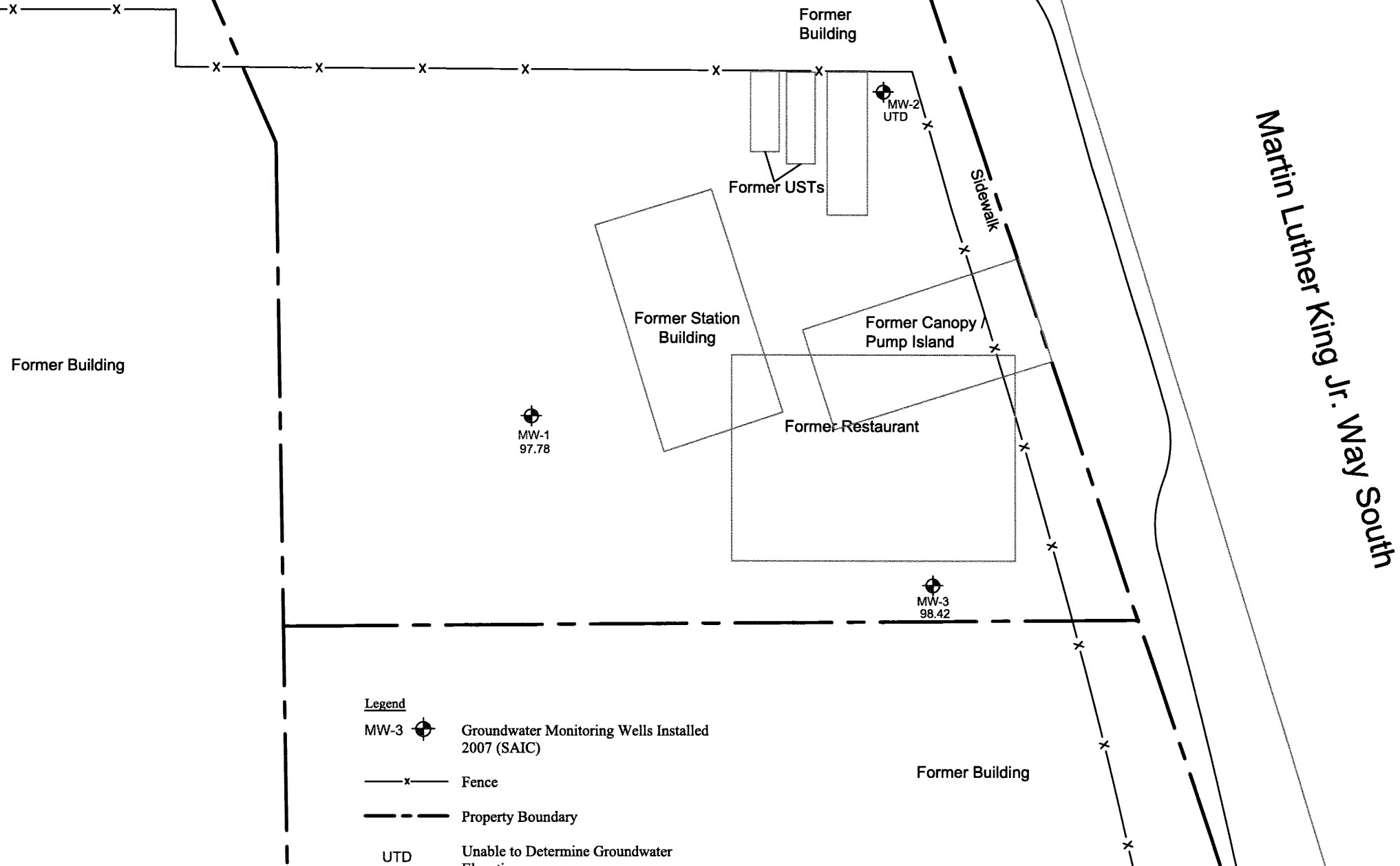
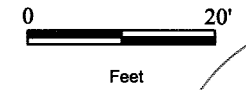
Former Tidewater Service Station No. 30-3189
7301 Martin Luther King Jr. Way South
Seattle, Washington

FIGURE 1
Vicinity Map

FILE NAME: 303189_VM.dwg	DATE: 10/05/2011
-----------------------------	---------------------

South Othello Street

N



Legend

- MW-3 Groundwater Monitoring Wells Installed 2007 (SAIC)
- x— Fence
- - - Property Boundary
- UTD Unable to Determine Groundwater Elevation
- 97.78 Groundwater Elevation in Feet

Former Tidewater Service Station No. 30-3189
7301 Martin Luther King Jr. Way South
Seattle, Washington

FIGURE 2
Site Map

FILE NAME:
303189 Site Map.dwg

DATE:
3/14/2012

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS
FORMER TIDEWATER SERVICE STATION NO. 30-3189
7301 Martin Luther King Jr. Way South
Seattle, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Total Lead
MW-1															
8/31/07		--	--	--	--	--	930	190	<50	<0.5	<0.5	<0.5	<1.5	--	0.052
4/24/09	LFP	99.66	--	2.36	--	97.30	650	<76	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
8/12/09	LFP	99.66	--	4.24	--	95.42	370	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/14/09	LFP	99.66	--	1.78	--	97.88	270 ²	<68 ²	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
2/11/10	LFP	99.66	--	1.92	--	97.74	560	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
5/24/10	LFP	99.66	--	2.43	--	97.23	91	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
8/4/10	LFP	99.66	--	3.62	--	96.04	520	<75	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/12/10	LFP	99.66	--	2.00	--	97.66	440	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
2/23/11	LFP	99.66	--	2.03	--	97.63	1,000	270	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
5/6/11	LFP	99.66	--	2.32	--	97.34	1,100	210	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
8/18/11	LFP	99.66	--	4.10	--	95.56	830	210	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/22/11	LFP	99.66	--	1.88	--	97.78	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-2															
8/31/07		--	--	--	--	--	2,100	1,200	26,000	3,200	190	1,400	3,300	--	--
4/24/09	PER	99.05	--	7.34	--	91.71	-- ¹	-- ¹	16,000	4,100	99	1,500	2,000	<3	--
8/12/09	PER	99.05	--	8.18	--	90.87	-- ¹	-- ¹	27,000	4,000	100	1,300	1,900	<3	--
11/14/09	PER	99.05	--	5.75	--	93.30	-- ¹	-- ¹	19,000	2,800	62	950	1,300	<3	--
2/11/10	PER	99.05	--	6.98	--	92.07	-- ¹	-- ¹	25,000	3,400	97	1,600	2,200	<0.5	--
5/24/10	PER	99.05	--	7.42	--	91.63	-- ¹	-- ¹	19,000	2,900	88	1,400	2,000	<1	--
8/4/10	PER	99.05	--	7.92	--	91.13	-- ¹	-- ¹	16,000	3,800	110	1,700	2,700	<3	--
11/12/10	PER	99.05	--	6.16	--	92.89	-- ¹	-- ¹	16,000	1,900	56	660	680	<1	--
2/23/11	PER	99.05	--	6.09	--	92.96	-- ¹	-- ¹	12,000	2,800	60	680	780	<3	--
5/6/11	PER	99.05	--	6.98	--	92.07	-- ¹	-- ¹	15,000	3,100	72	1,300	1,400	<3	--
8/18/11**	PER	99.05	8.20	8.30	0.10	90.83**	UNABLE TO SAMPLE DUE TO PRESENCE OF SPH					--	--	--	--
11/22/11	PER	99.05	UNABLE TO MEASURE DTW OR COLLECT SAMPLE DUE TO PRESENCE OF SPH								--	--	--	--	--
MW-3															
8/31/07		--	--	--	--	--	120	<100	<50	<0.5	<0.5	<0.5	<1.5		0.055
4/24/09	LFP	100.00	--	2.13	--	97.87	58	<75	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
8/12/09	LFP	100.00	--	4.47	--	95.53	620	170	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/14/09	LFP	100.00	--	1.60	--	98.40	450	370	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
2/11/10	LFP	100.00	--	1.59	--	98.41	160	130	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
5/24/10	LFP	100.00	--	1.83	--	98.17	910	310	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
8/4/10	LFP	100.00	--	3.84	--	96.16	55	<74	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS
FORMER TIDEWATER SERVICE STATION NO. 30-3189
7301 Martin Luther King Jr. Way South
Seattle, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Total Lead
MW-3 (cont)															
11/12/10	LFP	100.00	--	1.62	--	98.38	67	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
2/23/11	LFP	100.00	--	1.73	--	98.27	140	<73	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
5/6/11	LFP	100.00	--	1.85	--	98.15	160	82	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
8/18/11	LFP	100.00	--	4.38	--	95.62	56	<74	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/22/11	LFP	100.00	--	1.58	--	98.42	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
B-9															
5/1/02		--	--	--	--	--	0.660	0.310	32	530	<100	1,600	4,300	--	--
B-10															
5/1/02		--	--	--	--	--	5.10	<0.063	26	240	110	240	330	--	--
QA/TRIP BLANK															
4/24/09		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
8/12/09		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/14/09		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
2/11/10		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
5/24/10		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
8/4/10		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/12/10		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
2/23/11		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
5/6/11		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
8/18/11 ³		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
Standard Laboratory Reporting Limits:							--	--	50	0.5	0.5	0.5	0.5	1	--
MTCA Method A CULs:							500	500	800/1,000	5	1,000	700	1,000	0.5	15
Current Method:							NWTPH-Dx + Extended			NWTPH-Gx and USEPA 8021B/8260B					USEPA 7421

EXPLANATIONS:

Analytical results in bold font indicate concentrations exceed MTCA Method A CULs.

Results for wells B-9 and B-10 were provided by GeoEngineers.

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

CULs = Cleanup levels

DTP = Depth to Product

DTW = Depth to Water

(ft.) = Feet

GC/MS = gas chromatography/mass spectrometry

GWE = Groundwater Elevation

LFP = Low Flow Purge

MTBE = Methyl Tertiary Butyl Ether

MTCA = Model Toxics Control Act

ND = Non-detect

PER = Peristaltic Pump

QA = Quality Assurance/Trip Blank

QC = Quality control

SAIC = SAIC Energy, Environment & Infrastructure, LLC

SPH = Separate-phase hydrocarbons

SPHT = SPH Thickness

TOC = Top of Casing

TPH = Total Petroleum Hydrocarbons

TPH-DRO = TPH as diesel-range organics

TPH-GRO = TPH as gasoline-range organics

TPH-HRO = TPH as heavy oil-range organics

USEPA = United States Environmental Protection Agency

µg/L = Micrograms per liter

< = The analyte was not detected at or above the reported value

-- = Not Measured/Not Analyzed

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS
FORMER TIDEWATER SERVICE STATION NO. 30-3189
7301 Martin Luther King Jr. Way South
Seattle, Washington
Concentrations reported in µg/L

EXPLANATIONS (cont):

ANALYTICAL METHOD:

Prior to April 24, 2009, BTEX analysis by USEPA Method 8021B.

TPH-GRO by Method NWTPH-Gx.

TPH-DRO and TPH-HRO by Method NWTPH-Dx with silica-gel cleanup.

BTEX and MTBE by USEPA Method 8260B.

* TOC elevations are expressed in feet relative to an arbitrary datum.

** GWE has been corrected for the presence of SPH; correction factor: $[(TOC - DTW) + (SPHT \times 0.80)]$.

1 Not sampled due to insufficient water.

2 Laboratory report indicates the surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. The TPH-DRO result for the re-extraction is 610 µg/L; the TPH-HRO result for the re-extraction is ND.

3 The initial analysis for GC.MS volatiles could not be reported due to analytical difficulties. Since only one sample vial was submitted, the analysis was repeated using the remaining sample volume which contained headspace.

Attachment A:
Groundwater Monitoring and Sampling Data Package



GETTLER-RYAN INC.

TRANSMITTAL

December 2, 2011
G-R #385862

TO: Mr. Michael Lange
SAIC
18912 North Creek Parkway, Ste. 101
Bothell, Washington 98011

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: **Chevron Facility**
#303189
(Former Tidewater Service Stn.)
7301 MLK Jr. Way South
Seattle, Washington

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package Fourth Quarter Event of November 22, 2011

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/303189



GETTLER - RYAN INC.

CHEVRON - SITE CHECK LIST

Facility#:	Chevron #303189	Date:	11.22.11
Address:	7301 Martin Luther King Jr. Way South		
City/St.:	Seattle, WA		
Status of Site:	VACANT LOT		

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, gaskets, bolts, well plug, well lock, etc.:

Well ID	Gaskets (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Well Plug Y/N	Well Lock Y/N	Well Box Manufacturer/Size/# of Bolts	Other
MW-1	GOOD				8" Nipples x 3	
MW-2	↓					
MW-3	↓					

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. 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 without 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; 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. If the in-line flow cell is to be used, purging is discontinued once the ODR is determined, and the inline flow cell is connected. Purging is then resumed and the ODR is adjusted to allow for the back pressure of the in-line flow cell.

Purging and Water Quality Parameter Measurement

Prior to sampling the well, the SWL will be re-measured and documented and purging will be re-initiated using the ODR. The discharge rate will be confirmed by volumetric discharge measurement and the ODR adjusted as necessary. When the ODR has been re-established, the SWL drawdown has stabilized within the acceptable range and at least 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 ($\pm 10\%$), 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). Purge water is treated by filtering the water through granular activated carbon and is subsequently discharged to the ground surface at the site.

Sample Collection

When water quality parameters have stabilized, and there is no change in the SWL drawdown, groundwater sample collection may begin. 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 FIELD DATA SHEET

Client/Facility#: Chevron #303189 Job Number: 385862
 Site Address: 7301 Martin Luther King Jr. Way S Event Date: 11.22.11 (inclusive)
 City: Seattle, WA Sampler: J. Payne

Well ID: MW 1 Date Monitored: 11.22.11
 Well Diameter: .75 in.
 Total Depth: 11.62 ft.
 Depth to Water: 1.88 ft. Check if water column is less than 0.50 ft.

Volume Factor (VF)	<u>3/4" = 0.12</u>	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 3.80
 xVF: -.02 x3 case volume = Estimated Purge Volume: _____ gal.

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 / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 0900 Weather Conditions: Overcast
 Sample Time/Date: 0945 11.22.11 Water Color: cloudy Odor: (Y) N mild
 Approx. Flow Rate: 150 mlpm Sediment Description: Light Brown
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 1.96

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
<u>0918</u>	<u>2.7</u>	<u>6.80</u>	<u>.322</u>	<u>6.1</u>	<u>.8</u>	<u>10.2</u>	<u>1.96</u>
<u>0921</u>	<u>3.2</u>	<u>6.80</u>	<u>.322</u>	<u>5.8</u>	<u>.9</u>	<u>10.3</u>	<u>1.95</u>
<u>0924</u>	<u>3.7</u>	<u>6.78</u>	<u>.321</u>	<u>5.7</u>	<u>.8</u>	<u>10.2</u>	<u>1.96</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW 1	<u>6</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260B)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sg

COMMENTS: Depth Pump Set At: 8"
GOOD COND

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #303189 Job Number: 385862
 Site Address: 7301 Martin Luther King Jr. Way S Event Date: 11-22-11 (inclusive)
 City: Seattle, WA Sampler: J. Payne

Well ID: MW 2 Date Monitored: 11-22-11

Well Diameter: .75 in.

Total Depth: 9.41 ft.

Depth to Water: SEE ft.

Volume Factor (VF)	<u>3/4" = 0.02</u>	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 than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:
 COMMENTS xVF = x3 case volume = Estimated Purge Volume: gal.

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 / Absorbent 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/BTEX+MTBE(8260B)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sg

COMMENTS: Depth Pump Set At: UNABLE TO GAUGE w/ I-TRACE DUE TO PRESENCE OF THICK BLACK OIL

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #303189 Job Number: 385862
 Site Address: 7301 Martin Luther King Jr. Way S Event Date: 11.22.11 (inclusive)
 City: Seattle, WA Sampler: V. PAYNE

Well ID: MW 3 Date Monitored: 11.22.11
 Well Diameter: .75 in.
 Total Depth: 9.60 ft.
 Depth to Water: 1.58 ft. Check if water column is less than 0.50 ft.
7.92 xVF — = — x3 case volume = Estimated Purge Volume: — gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 3.16

Volume	<u>3/4" = 0.02</u>	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	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 _____
 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: _____
 Product Transferred to: _____

Start Time (purge): 10:00 Weather Conditions: OVERCAST
 Sample Time/Date: 10:15 / 11.22.11 Water Color: CLEAR Odor: Y (N)
 Approx. Flow Rate: 1150 mlpm Sediment Description: LIGHT BROWN
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 1.60

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
<u>10:18</u>	<u>2.7</u>	<u>6.34</u>	<u>.288</u>	<u>5.7</u>	<u>.6</u>	<u>9.2</u>	<u>1.67</u>
<u>10:21</u>	<u>3.2</u>	<u>6.34</u>	<u>.288</u>	<u>5.4</u>	<u>.7</u>	<u>9.3</u>	<u>1.66</u>
<u>10:24</u>	<u>3.7</u>	<u>6.34</u>	<u>.286</u>	<u>8.2</u>	<u>.7</u>	<u>9.3</u>	<u>1.66</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW 3</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260B)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sg

COMMENTS: Depth Pump Set At: 6' 6000

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

Chevron Northwest Region Analysis Request/Chain of Custody



**Lancaster
Laboratories**

SS #303189 OML G-R #385862

For Lancaster Laboratories use only

Acct. #: _____ Group #: _____ Sample #: _____

Facility #: 7301 Martin Luther King Jr. Way South, SEATTLE, WA
 Site Address: MGA SAICML Lange
 Chevron PM: G-R Inc. 6747 Sierra Court, Suite J, Dublin, CA 94568
 Consultant/Office: Deanna L Harding (deanna@gmnc.com)
 Consultant Prj. Mgr.: 925-551-7555 925-551-7899
 Consultant Phone #: _____ Fax #: _____
 Sampler: J. Ryan

Analyses Requested

SCR #: _____

Matrix	Potable		Oil	Air	Total Number of Containers	Preservation Codes															
	Water	NPDES				BTEX + MTBE	8021	8260	8260 full scan	Oxygenates	NWTPH GX	NWTPH DX	Silica Gel Cleanup	Lead	Total	Dis.	Method	WAVPH	WAEFH	NWTPH H	HClID
						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

- 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

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE	8021	8260	8260 full scan	Oxygenates	NWTPH GX	NWTPH DX	Silica Gel Cleanup	Lead	Total	Dis.	Method	WAVPH	WAEFH	NWTPH H	HClID	quantification
DA	11/22/11		X			X			2	X					X											
MW 1		1245	X			X			3	X					X	X										
MW 3		1245	X			X			3	X					X	X										

Comments /Remarks

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

Turnaround Time Requested (TAT) (please circle)

24 hour 72 hour 48 hour
 4 day 5 day

Data Package Options (please circle if required)

QC Summary Type I - Full
 Type VI (Raw Data)

Relinquished by: <u>[Signature]</u>	Date: <u>11/21/11</u>	Time: <u>1200</u>	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by Commercial Carrier:	Received by:		Date:	Time:	
UPS <input type="checkbox"/> FedEx <input checked="" type="checkbox"/> Other _____	Temperature Upon Receipt _____ C°		Custody Seals Intact?	Yes	No

Attachment B:
Laboratory Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

December 12, 2011

Project: 303189

Submittal Date: 11/30/2011
Group Number: 1278798
PO Number: 0015080810
Release Number: BAUHS
State of Sample Origin: WA

Client Sample Description

MW-1 Grab Water Sample
MW-3 Grab Water Sample

Lancaster Labs (LLI) #

6485220
6485221

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

ELECTRONIC COPY TO SAIC c/o Gettler-Ryan
ELECTRONIC COPY TO SAIC
ELECTRONIC COPY TO SAIC

Attn: Rachelle Munoz
Attn: Mike Lange
Attn: Jamalyn Green

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300 Ext. 1241

Respectfully Submitted,



Robin C. Runkle
Senior Specialist



Analysis Report

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

Page 1 of 1

Sample Description: MW-1 Grab Water Sample
Facility# 303189 Job# 385862
7301 Martin Luther King Jr Way South - Seattle, WA

LLI Sample # WW 6485220
LLI Group # 1278798
Account # 11260

Project Name: 303189

Collected: 11/22/2011 09:45 by JP

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

Submitted: 11/30/2011 09:40

Reported: 12/12/2011 08:17

MLK01

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	Methyl Tertiary Butyl Ether	1634-04-4	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
GC Petroleum Hydrocarbons ECY 97-602 NWTPH-Dx modified ug/l ug/l					
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	30	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	70	1
The reverse surrogate, capric acid, was present at <1%.					

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F113361AA	12/02/2011 13:13	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F113361AA	12/02/2011 13:13	Nicholas R Rossi	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	11337A94A	12/03/2011 23:07	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11337A94A	12/03/2011 23:07	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	113350017A	12/07/2011 05:11	Elizabeth J Marin	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	113350017A	12/02/2011 06:15	Roman Kuropatkin	1

Sample Description: MW-3 Grab Water Sample
Facility# 303189 Job# 385862
7301 Martin Luther King Jr Way South - Seattle, WA

LLI Sample # WW 6485221
LLI Group # 1278798
Account # 11260

Project Name: 303189

Collected: 11/22/2011 10:45 by JP

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

Submitted: 11/30/2011 09:40

Reported: 12/12/2011 08:17

MLK03

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	Methyl Tertiary Butyl Ether	1634-04-4	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
GC Petroleum ECY 97-602 NWTPH-Dx			ug/l	ug/l	
Hydrocarbons modified					
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	30	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	70	1

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

General Sample Comments

State of Washington Lab Certification No. C259
 Additional sample volume received on 12/01/11 for NWTPH-Dx.

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/MTBE 8260 Water	SW-846 8260B	1	F113361AA	12/02/2011 15:00	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F113361AA	12/02/2011 15:00	Nicholas R Rossi	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	11337A94A	12/03/2011 23:32	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11337A94A	12/03/2011 23:32	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	113350017A	12/07/2011 05:33	Elizabeth J Marin	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	113350017A	12/02/2011 06:15	Roman Kuropatkin	1

Quality Control Summary

 Client Name: Chevron
 Reported: 12/12/11 at 08:17 AM

Group Number: 1278798

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: F113361AA	Sample number(s): 6485220-6485221							
Benzene	N.D.	0.5	ug/l	93		79-120		
Ethylbenzene	N.D.	0.5	ug/l	93		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	82		76-120		
Toluene	N.D.	0.5	ug/l	94		79-120		
Xylene (Total)	N.D.	0.5	ug/l	92		80-120		
Batch number: 11337A94A	Sample number(s): 6485220-6485221							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	100	100	75-135	0	30
Batch number: 113350017A	Sample number(s): 6485220-6485221							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	61	80	56-103	27*	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					

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: F113361AA	Sample number(s): 6485220-6485221 UNSPK: 6485220								
Benzene	94	94	80-126	0	30				
Ethylbenzene	98	96	71-134	2	30				
Methyl Tertiary Butyl Ether	80	80	72-126	0	30				
Toluene	100	98	80-125	1	30				
Xylene (Total)	98	97	79-125	1	30				

Surrogate Quality Control

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

 Analysis Name: UST VOCs by 8260B - Water
 Batch number: F113361AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6485220	96	98	100	91
6485221	97	100	100	88

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 12/12/11 at 08:17 AM

Group Number: 1278798

Surrogate Quality Control

Blank	93	96	101	92
LCS	92	97	99	95
MS	93	96	101	98
MSD	95	99	100	97

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

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 11337A94A
Trifluorotoluene-F

6485220	74
6485221	76
Blank	95
LCS	92
LCSD	93

Limits: 63-135

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 113350017A
Orthoterphenyl

6485220	78
6485221	92
Blank	86
LCS	82
LCSD	106

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



For Lancaster Laboratories use only

Acct. #: 11260 Group # 1278798 Sample #: 6485219-21

Facility #: <u>SS#303189-OML G-R#385862</u> WBS: _____ Site Address: <u>7301 Martin Luther King Jr. Way South, SEATTLE, WA</u> Chevron PM: <u>MGA</u> SAICML Lange Lead Consultant: _____ Consultant/Office: <u>G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568</u> Consultant Prj. Mgr.: <u>Deanna L. Harding (deanna@grinc.com)</u> Consultant Phone #: <u>925-551-7555</u> Fax #: <u>925-551-7899</u> Sampler: _____ <i>J. R. [Signature]</i>				Matrix <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air		Analyses Requested <input checked="" type="checkbox"/> Preservation Codes <input checked="" type="checkbox"/> BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan <input type="checkbox"/> Oxygenates <input type="checkbox"/> NWTPH GX <input checked="" type="checkbox"/> NWTPH DX <input checked="" type="checkbox"/> Silica Gel Cleanup <input type="checkbox"/> Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method <input type="checkbox"/> WAWPH <input type="checkbox"/> WAEPH <input type="checkbox"/> NWTPH H CID <input type="checkbox"/> quantification										SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy's on highest hit <input type="checkbox"/> Run ___ oxy's on all hits						
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8021	8260 full scan	Oxygenates	NWTPH GX	NWTPH DX	Lead Total	Diss.	Method	WAWPH	WAEPH	NWTPH H CID	quantification	Comments /Remarks
<i>QA</i>	<i>11-22-11</i>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<i>2</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>									Please forward the lab results directly to the Lead Consultant and cc: G-R. <i>QA sample not received at LLI. Jmp 12/1/11</i>
<i>MW-1</i>	<i>↓</i>	<i>days</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<i>8</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<i>MW-3</i>	<i>↓</i>	<i>days</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<i>8</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
Turnaround Time Requested (TAT) (please circle) STD. TAT: 72 hour, 48 hour, 24 hour, 4 day, 5 day EDF/EDD										Relinquished by: <i>[Signature]</i> Date: <i>11-22-11</i> Time: <i>10:00</i>		Received by: _____ Date: _____ Time: _____										
Data Package Options (please circle if required) QC Summary: Type I - Full, Type VI (Raw Data)										Relinquished by: _____ Date: _____ Time: _____		Received by: _____ Date: _____ Time: _____										
UPS <input checked="" type="checkbox"/> FedEx Other: _____ Temperature Upon Receipt: _____ °C										Received by: <i>[Signature]</i> Date: <i>11/30/11</i> Time: <i>9:40</i>		Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No										

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m³	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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