SAIC
From Science to Solutions

March 3, 2010

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

Subject: **First Quarter 2010 Groundwater Monitoring Report**
Chevron Service Station No. 30-5192
9816 271st Street Northwest
Stanwood, Washington

Dear Ms. Skance:

Science Applications International Corporation (SAIC), on behalf of Chevron Environmental Management Company (Chevron), has prepared this letter summarizing the latest groundwater monitoring and sampling results from the above referenced property in Stanwood, Washington. The first quarter 2010 groundwater monitoring and sampling event was conducted by Gettler-Ryan Inc. on January 8, 2010.

Groundwater elevation and analytical data, along with field data sheets and a laboratory analytical report are presented in the Gettler-Ryan, Inc. *Groundwater Monitoring and Sampling Report,* included as Attachment A.

1.0 FIELD ACTIVITIES

Depth-to-groundwater measurements were collected from each of the four monitoring wells on the property. Each monitoring well was also checked for the presence of separate-phase hydrocarbon (SPH). SPH was not detected in any of the monitoring wells gauged during this event.

At the time of this monitoring event, groundwater elevations ranged from 96.68 feet in well MW-2 to 95.00 feet in well MW-1, based on an arbitrary benchmark elevation of 100.00 feet. Groundwater elevation had generally increased an average of 0.40 feet since the previous sampling event in July 2009. Groundwater flow at the time of this event was toward the north-northwest at a gradient of approximately 0.02 feet per foot (ft/ft). Figure 1 of the enclosed Attachment A depicts groundwater elevations and well locations.

Groundwater samples were collected from each of the four monitoring wells at the property and submitted to Lancaster Laboratories for the following analyses:

- Gasoline-range hydrocarbons by Washington State Department of Ecology (WDOE) Method NWTPH-Gx;
- Diesel- and heavy oil-range hydrocarbons by WDOE Method NWTPH-Dx with silica-gel cleanup; and

- Benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl tert-butyl ether (MTBE) by United States Environmental Protection Agency (USEPA) Method 8021.

2.0 ANALYTICAL RESULTS

The following petroleum analytes were detected where indicated at concentrations exceeding their respective Model Toxics Control Act (MTCA) Method A cleanup levels (CULs).

- Diesel -range hydrocarbons in monitoring wells MW-2, MW-3, and MW-4; and
- Heavy Oil-range hydrocarbons in monitoring wells MW-2 and MW-4.

None of the other constituents analyzed for were present at concentrations exceeding their respective MTCA Method A CULs. Groundwater analytical results are summarized in Table 1 of Attachment A.

3.0 DISCUSSION

Groundwater sampling results remain consistent with historical results for the property, indicating that the dissolved groundwater plume remains stable. Monitoring well MW-4, located in the southwest corner of the property, contained significantly elevated concentrations of diesel- and heavy oil-range hydrocarbons that may result from either a leaking off property heating oil tank or petroleum leachate from the historic drain field associated with the former station. The dissolved phase contamination detected in monitoring well MW-2 is most likely associated with the underground storage tanks (USTs), which were filled with waste oil by a previous tenant (not Standard Oil), located in the alleyway directly upgradient from monitoring well MW-2. The diesel- and oil-range petroleum impacts observed in wells MW-1 and MW-3 are likely associated with the two previously mentioned upgradient source areas.

Groundwater monitoring and sampling will continue to be performed on a semi-annual basis, with the next sampling event scheduled to be performed in July 2010.

Please contact the undersigned if you have any questions or comments about the information provided herein at (425) 482-3321 or at catterallp@saic.com.

Sincerely,

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

Peter Catterall
Project Manager

Enclosures:
Attachment A: Gettler-Ryan Inc., Groundwater Monitoring and Sampling Report, Event of January 8, 2010, Former Chevron Service Station #305192, 9816 271st Street Northwest, Stanwood, Washington

cc: Mr. Joe Hickey, Washington State Department of Ecology – Northwest Regional Office, Toxics Cleanup Program
Mr. Wayne Raplee 1411 70th Ave NE Stanwood, WA
Mr. Joshua Lipsky, Cascadia Law Group PLLC
File

Attachment A:
Gettler Ryan Groundwater Monitoring Report, Event of January 8, 2010, Former Chevron Service Station #30-5192, 9816 271st Street Northwest, Stanwood, Washington

GETTLER-RYAN INC.

TRANSMITTAL

February 1, 2010
G-R #387100

TO: Mr. Peter Catterall
SAIC
18912 North Creek Parkway, Suite 101
Bothell, Washington 98011

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

RE: Former Chevron Service Station #305192
9816 271st Street Northwest
Stanwood, Washington

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
5	January 27, 2010	Groundwater Monitoring and Sampling Report **Event of January 8, 2010**

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced report for **your use and distribution to the following:**

Ms. Olivia Skance, Chevron Environmental Management Company, 6111 Bollinger Canyon Road, Room 3636, San Ramon, CA 94583
Mr. Joe Hickey, WDOE, Northwest Region, Toxics Cleanup Program, 3190 160th Avenue, SE, Bellevue, WA 98008-5452
Mr. Wayne Raplee, 14115 70th Avenue NW, Stanwood, WA 98292
Mr. Joshua Lipsky, Cascadia Law Group PLLC, 1201 Third Avenue, Suite 320, Seattle, WA 98101

☑ *Current Site Check List included.*

Enclosure

trans/305192-OS

GETTLER-RYAN INC.

CHEVRON - SITE CHECK LIST

Facility#:	**Chevron #305192**	Date:	1-8-10
Address:	**9816 271St Street Nw**		
City/St.:	**Stanwood,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, well plug, well lock, etc.:

Well ID	Well Box	Bolts	Well Plug	Well Lock	Other
MW-1	OK	OK	OK	OK	
MW-2	↓	↓	↓	↓	
MW-3	↓	↓	↓	↓	
MW-4	↓	↓	↓	↓	

Additional Comments/Observations:

GETTLER-RYAN INC.

January 27, 2010
Job #387100

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

RE: Event of January 8, 2010
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #305192
9816 271st Street Northwest
Stanwood, Washington

Dear Ms. Skance:

This report documents the groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any wells. Static water level data and groundwater elevations are presented in Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. Purge water was treated by filtering the water through granular activated carbon and was subsequently discharged. The chain of custody document and laboratory analytical reports are attached.

Please call if you have any questions or comments regarding this report. Thank you.

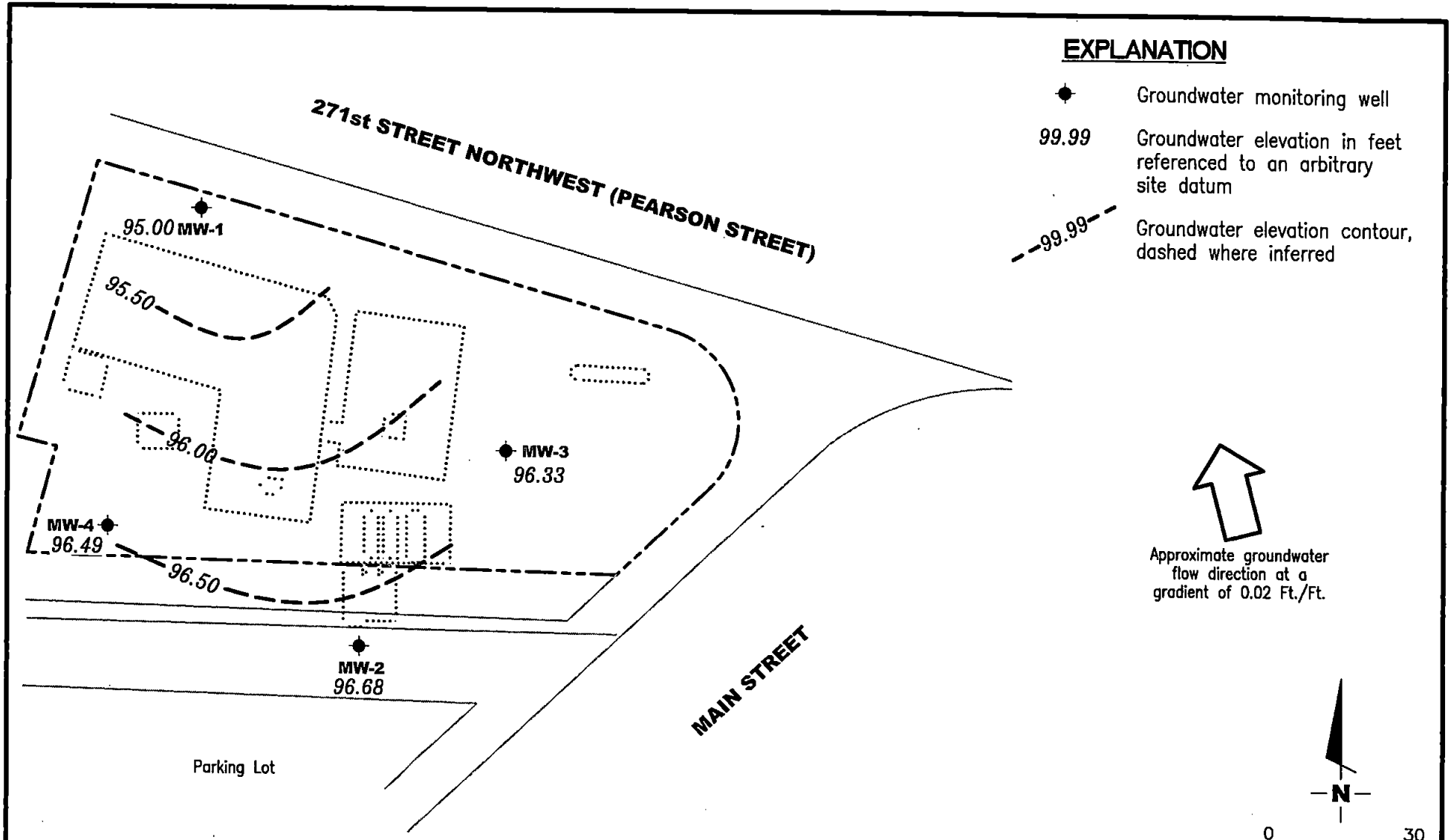
Sincerely,

Deanna L. Harding
Project Coordinator

Douglas J. Lee
Senior Geologist, L.G. No. 2660

State of Washington
2660
Licensed Geologist
Douglas J. Lee

Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results
Table 3: Field Measurements
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



Source: Figure modified from drawing provided by SAIC, Dated:- 02/06/2006.

GETTLER - RYAN INC.
6747 Sierra Court, Suite J
Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
Former Chevron Service Station #305192
9816 271st Street Northwest
Stanwood, Washington

FIGURE
1

PROJECT NUMBER
387100

REVIEWED BY

DATE
January 8, 2010

REVISED DATE

FILE NAME: P:\Enviro\Chevron\305192\Q10-305192.dwg | Layout Tab: Pot1

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #305192

9816 271st Street Northwest

Stanwood, Washington

WELL ID/ DATE		TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-DRO (µg/L)	TPH-HRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	D. LEAD (µg/L)
MW-1													
04/10/06		98.32	1.81	96.51	--	--	--	--	--	--	--	--	--
05/03/06		98.32	--	--	310[1]	120[1]	<240	<2.5	<2.5	4.7	11	<13	<0.87
08/02/06	PER	98.32	2.96	95.36	260[1]	330[1]	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
10/10/06	PER	98.32	2.55	95.77	150[1]	<100[1]	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/15/07	PER	98.32	1.64	96.68	<160[1]	<200[1]	<240	<2.5	<2.5	<2.5	<7.5	<13	--
04/25/07	PER	98.32	1.58	96.74	190[1]	130[1]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
07/15/07	PER	98.32	2.58	95.74	<81[1]	<100[1]	<500	<5.0	<5.0	<5.0	<15	<25	--
10/03/07	PER	98.32	3.00	95.32	130[1]	<100[1]	<250	<2.5	<2.5	<2.5	<7.5	<13	--
01/03/08		98.32	2.51	95.81	130[1]	<100[1]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/28/09	LFP	98.32	3.27	95.05	610[1]	610[1]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
07/22/09	LFP	98.32	4.43	93.89	650[1]	720[1]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/08/10	**LFP**	**98.32**	**3.32**	**95.00**	**350[1]**	**160[1]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**	**--**
MW-2													
04/10/06		99.58	2.29	97.29	--	--	--	--	--	--	--	--	--
05/03/06		99.58	--	--	1,400[1]	560[1]	<240	13	<2.5	<2.5	<7.5	<13	<0.87
08/02/06	PER	99.58	2.98	96.60	2,000[1]	1,800[1]	220	20	<0.5	<0.5	1.6	<2.5	--
10/10/06	PER	99.58	3.64	95.94	1,400[1]	790[1]	<240	16	<2.5	<2.5	<7.5	<13	--
01/15/07	PER	99.58	2.08	97.50	810[1]	270[1]	<240	9.3	<2.5	<2.5	<7.5	<13	--
04/25/07	PER	99.58	2.16	97.42	830[1]	480[1]	250	13	<0.5	<0.5	<1.5	<2.5	--
07/15/07	PER	99.58	2.95	96.63	7,800[1,3]	<1,000[1,3]	<500	13	<5.0	<5.0	<15	<25	--
10/03/07	PER	99.58	3.44	96.14	1,600[1]	1,100[1]	<250	4.9	<2.5	<2.5	<7.5	<13	--
01/03/08		99.58	2.32	97.26	1,400[1]	800[1]	460	6.7	1.0	<0.5	<1.5	<2.5	--
02/28/09	LFP	99.58	2.89	96.69	2,700[1]	2,800[1]	450	2.5	0.6	<0.5	<1.5	<2.5	--
07/22/09	LFP	99.58	3.33	96.25	2,500[1]	4,000[1]	360	1.1	0.8	<0.5	1.5	<2.5	--
01/08/10	**LFP**	**99.58**	**2.90**	**96.68**	**1,800[1]**	**1,400[1]**	**470**	**<0.5**	**0.5**	**0.7**	**<1.5**	**<2.5**	**--**
MW-3													
04/10/06		99.16	0.40	98.76	--	--	--	--	--	--	--	--	--
05/03/06		99.16	--	--	580[1]	240[1]	<240	<2.5	<2.5	<2.5	<7.5	<13	<0.87
08/02/06	PER	99.16	2.61	96.55	350[1]	380[1]	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
10/10/06	PER	99.16	2.75	96.41	310[1]	140[1]	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/15/07	PER	99.16	0.50	98.66	250[1]	<100[1]	<240	<2.5	<2.5	<2.5	<7.5	<13	--
04/25/07	PER	99.16	0.84	98.32	260[1]	110[1]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
07/15/07	PER	99.16	2.16	97.00	250[1]	150[1]	<500	<5.0	<5.0	<5.0	<15	<25	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #305192

9816 271st Street Northwest

Stanwood, Washington

WELL ID/ DATE		TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-DRO (µg/L)	TPH-HRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	D. LEAD (µg/L)
MW-3 (cont)													
10/03/07	PER	99.16	2.68	96.48	330[1]	260[1]	<250	<2.5	<2.5	<2.5	<7.5	<13	--
01/03/08		99.16	1.62	97.54	280[1]	210[1]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/28/09	LFP	99.16	1.56	97.60	290[1]	190[1]	<50	<0.5	<0.5	<0.5	1.6	<2.5	--
07/22/09	LFP	99.16	3.11	96.05	780[1]	830[1]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/08/10	**LFP**	**99.16**	**2.83**	**96.33**	**680[1]**	**360[1]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**	--
MW-4													
04/10/06		100.00	2.08	97.92	--	--	--	--	--	--	--	--	--
05/03/06		100.00	--	--	7,900[1]	<1,000[1]	<240	<2.5	<2.5	<2.5	<7.5	<13	<0.87
08/02/06	PER	100.00	3.57	96.43	7,300[1]	<1,000[1]	73	<0.5	<0.5	<0.5	2.8	<2.5	--
10/10/06[2]	PER	100.00	4.28	95.72	7,900[1]	2,200[1]	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/15/07[2]	PER	100.00	2.98	97.02	8,300[1]	3,000[1]	<240	<2.5	<2.5	<2.5	<7.5	<13	--
04/25/07[2]	PER	100.00	4.35	95.65	9,300[1]	2,000[1]	89	<0.5	<0.5	<0.5	<1.5	<2.5	--
07/15/07	PER	100.00	4.06	95.94	850[1,3]	320[1,3]	<500	<5.0	<5.0	<5.0	<15	<25	--
10/03/07	PER	100.00	4.22	95.78	8,500[1]	<2,100[1]	<250	<2.5	<2.5	<2.5	<7.5	<13	--
01/03/08		100.00	3.98	96.02	9,100[1]	2,200[1]	61	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/28/09	LFP	100.00	3.44	96.56	5,400[1]	2,100[1]	56	<0.5	<0.5	<0.5	<1.5	<2.5	--
07/22/09	LFP	100.00	3.30	96.70	14,000[1]	7,600[1]	100	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/08/10	**LFP**	**100.00**	**3.51**	**96.49**	**13,000[1]**	**18,000[1]**	**75**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**	--
TRIP BLANK													
QA													
05/03/06		--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/02/06		--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
10/10/06		--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/15/07		--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
04/25/07		--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
07/15/07		--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
10/03/07		--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/03/08		--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #305192

9816 271st Street Northwest

Stanwood, Washington

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-DRO (µg/L)	TPH-HRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	D. LEAD (µg/L)
QA (cont)												
02/28/09	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
07/22/09	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/08/10	--	--	--	--	--	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**	--

	TPH-DRO	TPH-HRO	TPH-GRO	B	T	E	X	MTBE	D. LEAD
Standard Laboratory Reporting Limits:	--	--	50	0.5	0.5	0.5	1.5	2.5	0.001
MTCA Method A Cleanup Levels:	500	500	800/1,000	5	1,000	700	1,000	20	--
Current Method:	NWTPH-Dx + Extended		NWTPH-Gx and EPA 8021B						EPA 7421

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #305192
9816 271st Street Northwest
Stanwood, Washington

EXPLANATIONS:

TOC = Top of Casing
(ft.) = Feet
DTW = Depth to Water
GWE = Groundwater Elevation
TPH = Total Petroleum Hydrocarbons
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
HRO = Heavy Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl Tertiary Butyl Ether
D. LEAD = Dissolved Lead
(µg/L) = Micrograms per liter
-- = Not Measured/Not Analyzed
LFP = Low Flow Purge
PER = Peristaltic Pump
QA = Quality Assurance/Trip Blank
MTCA = Model Toxics Control Act Cleanup Regulations
[WAC 173-340-720(2)(a)(I), as amended 02/01]

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

1 Analyzed with silica gel cleanup.

2 Incorrect TOC used to calculate GWE in past reports (99.16). Correct TOC is shown.

3 Current laboratory analytical results do not coincide with historical data, samples may have been switched in the field.

Table 2

Groundwater Analytical Results

Former Chevron Service Station #305192

9816 271st Street Northwest

Stanwood, Washington

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	FULL SCAN EPA 8260 (µg/L)
MW-4	05/03/06	<500	<50	<5	<5	<5	<5	<5 - <60

EXPLANATIONS:

TBA = t-Butyl alcohol
MTBE = Methyl Tertiary Butyl Ether
DIPE = di-Isopropyl ether
ETBE = Ethyl t-butyl ether
TAME = t-Amyl methyl ether
(µg/L) = Micrograms per liter

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 3

Field Measurements

Former Chevron Service Station #305192

9816 271st Street Northwest

Stanwood, Washington

WELL ID	DATE	Time (2400 hr.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°C/F°)	Turbidity (NTU)
MW-1	08/02/06	1055	6.72	401	15.4/--	93
	01/15/07	1140	6.79	412	12.0/--	--
		1144	6.72	408	11.8/--	--
		1149	6.68	403	11.7/--	--
	04/25/07	1259	6.39	752	13.5/--	--
	07/15/07	1542	6.31	589	17.8/--	--
	10/03/07	1204	6.46	436	15.7/--	--
		1208	6.42	430	15.6/--	--
		1214	6.39	426	15.5/--	--
	01/03/08	1125	6.79	403	11.9/--	--
		1129	6.77	398	11.8/--	--
		1133	6.74	393	11.8/--	--
	02/28/09	1045	7.13	906	8.8/--	--
		1048	7.11	909	8.9/--	--
		1051	7.11	910	8.9/--	--
	07/22/09	1140	7.36	1,187	17.5/--	--
		1143	7.40	1,190	17.5/--	--
		1146	7.41	1,190	17.5/--	--
	01/08/10	**0914**	**7.19**	**1302**	**10.1/--**	--
		0917	**7.12**	**1307**	**10.1/--**	--
		0920	**7.13**	**1306**	**10.2/--**	--
MW-2	08/02/06	1017	6.49	430	15.2/--	371
		1025	6.47	421	15.1/--	78
	01/15/07	1106	6.82	404	11.8/--	--
		1111	6.76	398	11.7/--	--
		1116	6.75	393	11.6/--	--
	04/25/07	1158	6.60	856	12.8/--	--
	07/15/07	1442	6.56	572	17.5/--	--
	10/03/07	1349	6.46	429	15.8/--	--
		1355	6.37	426	15.7/--	--
		1401	6.36	421	15.7/--	--
	01/03/08	1231	6.72	381	11.9/--	--
		1235	6.70	378	11.9/--	--
		1239	6.67	371	11.8/--	--
	02/28/09	1140	6.57	1,102	8.7/--	--
		1143	6.60	1,108	8.7/--	--
		1146	6.61	1,111	8.7/--	--
	07/22/09	1040	6.56	1,311	19.8/--	--
		1043	6.60	1,307	19.8/--	--
		1046	6.61	1,308	19.8/--	--
	01/08/10	**1100**	**7.09**	**1198**	**9.6/--**	--
		1103	**7.11**	**1203**	**9.6/--**	--
		1106	**7.13**	**1201**	**9.6/--**	--
MW-3	08/02/06	957	6.56	412	15.5/--	83
	01/15/07	1041	6.70	407	11.9/--	--
		1046	6.65	401	11.8/--	--
		1051	6.62	397	11.7/--	--
	04/25/07	1227	6.52	1266	12.3/--	--
	07/15/07	1512	6.58	687	17.7/--	--
	10/03/07	1314	6.37	456	15.9/--	--
		1319	6.32	451	15.7/--	--
		1323	6.31	446	15.7/--	--

Table 3

Field Measurements

Former Chevron Service Station #305192
9816 271st Street Northwest
Stanwood, Washington

WELL ID	DATE	Time (2400 hr.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°C/F°)	Turbidity (NTU)
MW-3 (cont)	01/03/08	1157	6.84	393	12.0/--	--
		1201	6.82	390	11.9/--	--
		1206	6.81	387	11.9/--	--
	02/28/09	1230	6.86	1,159	8.2/--	--
		1233	6.85	1,162	8.2/--	--
		1236	6.85	1,161	8.3/--	--
	07/22/09	1235	7.12	1,553	17.3/--	--
		1238	7.09	1,556	17.4/--	--
		1241	7.10	1,559	17.4/--	--
	01/08/10	**1005**	**7.01**	**962**	**10.4/--**	--
		1008	**7.04**	**967**	**10.5/--**	--
		1011	**7.05**	**968**	**10.5/--**	--
MW-4	08/02/06	920	6.76	433	15.6/--	176
		926	6.73	429	15.5/--	72
	01/15/07	958	6.77	402	11.9/--	--
		1002	6.70	394	11.8/--	--
		1007	6.63	391	11.7/--	--
	04/25/07	1337	7.38	620	12.8/--	--
	07/15/07	1617	6.20	593	14.9/--	--
	10/03/07	1240	6.52	426	15.9/--	--
		1246	6.48	422	15.6/--	--
	01/03/08	1305	6.64	387	11.8/--	--
		1309	6.62	383	11.8/--	--
		1313	6.61	379	11.7/--	--
	02/28/09	1325	6.69	821	8.4/--	--
		1328	6.71	824	8.4/--	--
		1331	6.71	827	8.4/--	--
	07/22/09	1330	6.67	846	17.1/--	--
		1333	6.71	849	17.1/--	--
		1336	6.72	853	17.2/--	--
	01/08/10	**1150**	**7.14**	**1226**	**10.0/--**	--
		1153	**7.20**	**1230**	**10.0/--**	--
		1156	**7.21**	**1230**	**10.0/--**	--

Table 3

Field Measurements

Former Chevron Service Station #305192
9816 271st Street Northwest
Stanwood, Washington

EXPLANATIONS:

pH = Potential Hydrogen Ions
(µS) = Microsiemens
(µmhos/cm) = Micromhos per centimeter
(°C/F°) = Degrees Celsius/ Fahrenheit
(NTU) = Nephelometric Turbidity Unit
-- = Not Measured

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. 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. 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. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

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 #305192 | Job Number: 387100
Site Address: 9816 271St Street Nw | Event Date: 1-8-10 (inclusive)
City: Stanwood,WA | Sampler: AAL

Well ID: MW-1 | Date Monitored: 1-8-10
Well Diameter: 1.5 in.
Total Depth: 14.16 ft.
Depth to Water: 3.32 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.

___ 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	X
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	
Pressure Bailer	
Discrete Bailer	
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: ___
Product Transferred to: ___

Start Time (purge): 0900 | Weather Conditions: Rain
Sample Time/Date: 0930 1-8-10 | Water Color: Clear | Odor: Y / (N)
Approx. Flow Rate: ~~300~~ ml/ gpm. | Sediment Description: None
Did well de-water? NO | If yes, Time: ___ Volume: ___ gal. DTW @ Sampling: 3.44

Time (2400 hr.)	Volume ~~gal~~ L	pH	Conductivity (µmhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0914	4.2	7.19	1302	10.1			3.42
0917	5.1	7.12	1307	10.1			3.44
0920	6	7.13	1306	10.2			3.44

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	3 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8021)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sg

COMMENTS: ___

Add/Replaced Lock: ___ Add/Replaced Plug: ___ Add/Replaced Bolt: ___

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #305192 Job Number: 387100
Site Address: 9816 271St Street Nw Event Date: 1-8-10 (inclusive)
City: Stanwood,WA Sampler: ML

Well ID MW-2 Date Monitored: 1-8-10
Well Diameter 1.5 in.
Total Depth 14.19 ft.
Depth to Water 2.90 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.

— 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 X
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Discrete Bailer
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:
Product Transferred to:

Start Time (purge): 1045 Weather Conditions: Rain
Sample Time/Date: 1115 11-8-10 Water Color: Clear Odor: Y (N)
Approx. Flow Rate: 200 ml/gpm. Sediment Description: None
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 3.05

Time (2400 hr.)	Volume (~~gal~~ L)	pH	Conductivity (µmhos/cm ~~µS~~)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1100	3	7.09	1198	9.6			3.01
1103	3.6	7.11	1203	9.6			3.04
1106	4.2	7.13	1201	9.6			3.05

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	3 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8021)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sg

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #305192 | Job Number: 387100
Site Address: 9816 271St Street Nw | Event Date: 1-8-10 (inclusive)
City: Stanwood,WA | Sampler: ML

Well ID: MW-3 | Date Monitored: 1-8-10
Well Diameter: 1.5 in.
Total Depth: 13.60 ft.
Depth to Water: 2.83 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.

— 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	X
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	
Pressure Bailer	
Discrete Bailer	
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:
Product Transferred to:

Start Time (purge): 0950 | Weather Conditions: Rain
Sample Time/Date: 1020 1-8-10 | Water Color: Clear | Odor: Y / (N)
Approx. Flow Rate: 200 ml/~~gpm~~. | Sediment Description: None
Did well de-water? no | If yes, Time: | Volume: gal. | DTW @ Sampling: 2.96

Time (2400 hr.)	Volume (~~gal~~) L	pH	Conductivity (µmhos/cm - ~~µS~~)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1005	3	7.01	962	10.4			2.92
1008	3.6	7.04	967	10.5			2.95
1011	4.2	7.05	968	10.5			2.96

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	5 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8021)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sg

COMMENTS:

Add/Replaced Lock: | Add/Replaced Plug: | Add/Replaced Bolt:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #305192 Job Number: 387100
Site Address: 9816 271St Street Nw Event Date: 1-8-10 (inclusive)
City: Stanwood,WA Sampler: ML

Well ID MW-4 Date Monitored: 1-8-10
Well Diameter 1.5 in.
Total Depth 13.72 ft.
Depth to Water 3.51 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.

— 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 X
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Discrete Bailer
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:
Product Transferred to:

Start Time (purge): 1135 Weather Conditions: Rain
Sample Time/Date: 1205 1-8-10 Water Color: Clear Odor: (Y) / N medium
Approx. Flow Rate: 200 ml/gpm. Sediment Description: None
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 3.57

Time (2400 hr.)	Volume (gal.) L	pH	Conductivity (µmhos/cm) (µS)	Temperature (C) / F	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1150	3	7.14	1226	10.0			3.54
1153	3.6	7.20	1230	10.0			3.55
1156	4.2	7.21	1230	10.0			3.57

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8021)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sg

COMMENTS:

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

Chevron Northwest Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 11260 Sample #: 588 0016-20 SCR#:

Grp#1177980

Facility #: SS#305192-OML G-R#387100
Site Address: 9816 271st Street NW, STANWOOD, WA
Chevron PM: OS Lead Consultant: SAICPC
Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568
Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: Mike Lombard
Service Order #: ☐ Non SAR:

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

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

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

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Water	Oil ☐ Air ☐	Total Number of Containers	BTEX + MTBE 8021 ☒ 8260 ☐ Naphth ☐	8260 full scan	Oxygenates ____	TPH G	TPH D ☒ Extended Ring. ☒ Silica Gel Cleanup	Lead Total ☐ Diss. ☐ Method ____	VPH/EPH	NWTPH H HCID ☐ quantification
QA	1-8-10		X			X		2	X			X				
MW-1	↓	0930	X			X		5	X			X	X			
MW-2		1115	X			X		5	X			X	X			
MW-3		1020	X			X		5	X			X	X			
MW-4	↓	1205	X			X		5	X			X	X			

Comments / Remarks

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

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

Relinquished by:	Date	Time	Received by:	Date	Time
	1-8-10	1530			
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS (FedEx) Other			Received by: Katie Hartline	1/9/10	10:30

Temperature Upon Receipt 4.0 C°
Custody Seals Intact? (Yes) No

Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

January 21, 2010

Project: 305192

Samples arrived at the laboratory on Saturday, January 09, 2010. The PO# for this group is 0015040041 and the release number is SKANCE. The group number for this submittal is 1177980.

Client Sample Description	Lancaster Labs (LLI) #
QA Water Sample	5880016
MW-1 Grab Water Sample	5880017
MW-2 Grab Water Sample	5880018
MW-3 Grab Water Sample	5880019
MW-4 Grab Water Sample	5880020

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 Attn: Cheryl Hansen

Lancaster Laboratories

Analysis Report

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

Respectfully Submitted,

Valerie L. Tomayko
Group Leader

Lancaster Laboratories

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

Analysis Report

Sample Description: QA Water Sample
Facility# 305192 Job# 387100
9816 271st St NW - Stanwood, WA

LLI Sample # WW 5880016
LLI Group # 1177980
WA

Project Name: 305192

Collected: 01/08/2010

Account Number: 11260

Submitted: 01/09/2010 10:30
Reported: 01/21/2010 at 08:31
Discard: 02/21/2010

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
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles	**SW-846 8021B**		ug/l	ug/l	
02159	Benzene	71-43-2	N.D.	0.5	1
02159	Ethylbenzene	100-41-4	N.D.	0.5	1
02159	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	1
02159	Toluene	108-88-3	N.D.	0.5	1
02159	Total Xylenes	1330-20-7	N.D.	1.5	1

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	10012A94A	01/12/2010 15:00	Butch A Sokolowski	1
02159	BTEX, MTBE	SW-846 8021B	1	10012A94A	01/12/2010 15:00	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	10012A94A	01/12/2010 15:00	Butch A Sokolowski	1

Lancaster Laboratories

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Analysis Report

Sample Description: MW-1 Grab Water Sample
Facility# 305192 Job# 387100
9816 271st St NW - Stanwood, WA

LLI Sample # WW 5880017
LLI Group # 1177980
WA

Project Name: 305192

Collected: 01/08/2010 09:30 by ML

Account Number: 11260

Submitted: 01/09/2010 10:30
Reported: 01/21/2010 at 08:31
Discard: 02/21/2010

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

SWMW1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles	**SW-846 8021B**		ug/l	ug/l	
02159	Benzene	71-43-2	N.D.	0.5	1
02159	Ethylbenzene	100-41-4	N.D.	0.5	1
02159	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	1
02159	Toluene	108-88-3	N.D.	0.5	1
02159	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Extractable TPH w/Si Gel	**ECY 97-602 NWTPH-Dx modified**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	350	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	160	68	1

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	10012A94A	01/12/2010 21:15	Butch A Sokolowski	1
02159	BTEX, MTBE	SW-846 8021B	1	10012A94A	01/12/2010 21:15	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	10012A94A	01/12/2010 21:15	Butch A Sokolowski	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	100110025A	01/15/2010 03:23	Glorines Suarez-Rivera	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	100110025A	01/12/2010 09:00	Olivia Arosemena	1

Lancaster Laboratories

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Analysis Report

Sample Description: MW-2 Grab Water Sample
Facility# 305192 Job# 387100
9816 271st St NW - Stanwood, WA

LLI Sample # WW 5880018
LLI Group # 1177980
WA

Project Name: 305192

Collected: 01/08/2010 11:15 by ML

Account Number: 11260

Submitted: 01/09/2010 10:30
Reported: 01/21/2010 at 08:31
Discard: 02/21/2010

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

SWMW2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	470	50	1
GC Volatiles	**SW-846 8021B**		ug/l	ug/l	
02159	Benzene	71-43-2	N.D.	0.5	1
02159	Ethylbenzene	100-41-4	0.7	0.5	1
02159	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	1
02159	Toluene	108-88-3	0.5	0.5	1
02159	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Extractable TPH w/Si Gel	**ECY 97-602 NWTPH-Dx modified**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	1,800	58	2
02211	HRO C24-C40 w/Si Gel	n.a.	1,400	130	2

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	10012A94A	01/12/2010 21:42	Butch A Sokolowski	1
02159	BTEX, MTBE	SW-846 8021B	1	10012A94A	01/12/2010 21:42	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	10012A94A	01/12/2010 21:42	Butch A Sokolowski	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	100110025A	01/15/2010 05:04	Glorines Suarez-Rivera	2
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	100110025A	01/12/2010 09:00	Olivia Arosemena	1

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Analysis Report

Sample Description: MW-3 Grab Water Sample
Facility# 305192 Job# 387100
9816 271st St NW - Stanwood, WA

LLI Sample # WW 5880019
LLI Group # 1177980
WA

Project Name: 305192

Collected: 01/08/2010 10:20 by ML

Account Number: 11260

Submitted: 01/09/2010 10:30
Reported: 01/21/2010 at 08:31
Discard: 02/21/2010

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

SWMW3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles	**SW-846 8021B**		ug/l	ug/l	
02159	Benzene	71-43-2	N.D.	0.5	1
02159	Ethylbenzene	100-41-4	N.D.	0.5	1
02159	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	1
02159	Toluene	108-88-3	N.D.	0.5	1
02159	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Extractable TPH w/Si Gel	**ECY 97-602 NWTPH-Dx modified**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	680	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	360	69	1

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	10012A94A	01/12/2010 22:09	Butch A Sokolowski	1
02159	BTEX, MTBE	SW-846 8021B	1	10012A94A	01/12/2010 22:09	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	10012A94A	01/12/2010 22:09	Butch A Sokolowski	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	100110025A	01/15/2010 04:03	Glorines Suarez-Rivera	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	100110025A	01/12/2010 09:00	Olivia Arosemena	1

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Analysis Report

Sample Description: MW-4 Grab Water Sample
Facility# 305192 Job# 387100
9816 271st St NW - Stanwood, WA

LLI Sample # WW 5880020
LLI Group # 1177980
WA

Project Name: 305192

Collected: 01/08/2010 12:05 by ML

Account Number: 11260

Submitted: 01/09/2010 10:30
Reported: 01/21/2010 at 08:31
Discard: 02/21/2010

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

SWM4-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	75	50	1
GC Volatiles	**SW-846 8021B**		ug/l	ug/l	
02159	Benzene	71-43-2	N.D.	0.5	1
02159	Ethylbenzene	100-41-4	N.D.	0.5	1
02159	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	1
02159	Toluene	108-88-3	N.D.	0.5	1
02159	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Extractable TPH w/Si Gel	**ECY 97-602 NWTPH-Dx modified**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	13,000	730	25
02211	HRO C24-C40 w/Si Gel	n.a.	18,000	1,700	25

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	10012A94A	01/12/2010 22:35	Butch A Sokolowski	1
02159	BTEX, MTBE	SW-846 8021B	1	10012A94A	01/12/2010 22:35	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	10012A94A	01/12/2010 22:35	Butch A Sokolowski	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	100110025A	01/15/2010 15:20	Glorines Suarez-Rivera	25
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	100110025A	01/12/2010 09:00	Olivia Arosemena	1

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Analysis Report

Quality Control Summary

Client Name: Chevron
Reported: 01/21/10 at 08:31 AM

Group Number: 1177980

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10012A94A	Sample number(s): 5880016-5880020							
Benzene	N.D.	0.5	ug/l	100	100	80-120	0	30
Ethylbenzene	N.D.	0.5	ug/l	95	95	80-120	0	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	95	95	78-125	0	30
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	100	109	75-135	9	30
Toluene	N.D.	0.5	ug/l	95	95	80-120	0	30
Total Xylenes	N.D.	1.5	ug/l	98	100	80-120	2	30
Batch number: 100110025A	Sample number(s): 5880017-5880020							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	80	81	50-100	2	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: 10012A94A	Sample number(s): 5880016-5880020 UNSPK: P879940, P880014								
Benzene	105		80-152						
Ethylbenzene	100		80-133						
NWTPH-Gx water C7-C12	100		57-157						
Toluene	105		80-133						
Total Xylenes	103		80-148						

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: BTEX, MTBE
Batch number: 10012A94A

	Trifluorotoluene-P	Trifluorotoluene-F
5880016	93	82
5880017	93	82
5880018	96	92
5880019	93	82
5880020	93	84
Blank	93	83

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

Quality Control Summary

Client Name: Chevron
Reported: 01/21/10 at 08:31 AM

Group Number: 1177980

Surrogate Quality Control

LCS	92	83
LCSD	92	83
MS	93	82
Limits:	58-146	63-135

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 100110025A

	Orthoterphenyl
5880017	103
5880018	95
5880019	105
5880020	204*
Blank	93
LCS	116
LCSD	116
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.

Lancaster Laboratories
Explanation of Symbols and Abbreviations

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

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

< less than – The number following the sign is the 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 of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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