VCP NW1415 SIT 2,3.2

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Seattle Housing auth
Seattle

SAIC
From Science to Solutions

August 24, 2009

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

Subject: **Second Quarter 2009 Groundwater Monitoring Report**
Former Chevron Service Station No. 209335
1225 North 45th Street
Seattle, 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 Seattle, Washington. The second quarterly 2009 groundwater monitoring and sampling event was conducted by Gettler-Ryan Inc. (G-R) in two parts on June 16 and July 1, 2009.

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 four of the five monitoring wells present at the Site. Each monitoring well was also checked for the presence of separate-phase hydrocarbon (SPH). SPH was encountered in monitoring well MW-7 and confirmed by bailer, however SPH thickness could not determined, due to an equipment malfunction.

At the time of this monitoring event, groundwater elevations ranged from 170.08 feet Mean Sea Level (MSL) in well MW-9 to 168.57 feet MSL in well MW-10, and had increased an average of 4.02 feet since the previous sampling event in May 2007. Groundwater flow at the time of this event was toward the southeast at a gradient of approximately 0.04 feet per foot (ft/ft). Figure 1 of the enclosed Attachment depicts groundwater flow direction, groundwater elevations and well locations.

Groundwater samples were collected from each of the five monitoring wells at the Site 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;

entered CP 9-8-09

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency (USEPA) Method 8260; and

- Dissolved Lead by Method USEPA 6020.

2.0 GROUNDWATER ANALYTICAL RESULTS

Diesel-range hydrocarbons was detected exceeding the laboratory reporting limits in monitoring wells MW-6 and MW-8 at concentrations of 270 µg/L and 390 µg/L, which are below the Model Toxics Control Act (MTCA) Method A CUL of 500 µg/L for this constitute. Dissolved lead was detected in MW-6 at concentrations of 22.9 micrograms per Liter (µg/L), which exceeds the respective MTCA Method A Cleanup Level (CUL). None of the groundwater monitoring wells sampled contained gasoline, diesel- or heavy oil-range hydrocarbons, benzene, toluene, ethylbenzene or xylenes at concentrations exceeding the respective MTCA Method A CULs. Groundwater analytical results are summarized in Table 1 of the attached G-R report.

3.0 DISCUSSION

Groundwater has not been sampled at the Site since May of 2007. Additional sampling information will be required before groundwater elevation patterns and analytical trends can be evaluated. Groundwater monitoring and sampling will continue to be performed on a semi-annually basis, with the next sampling event planned for December 2009.

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 June 16 and July 1, 2009, Chevron Service Station #20-9335, 1225 North 45th Street, Seattle, Washington

cc: WDOE, Northwest Regional Office, Toxic Cleanup Program
Mr. Larry Hard, Seattle Housing Authority
File
Accession # 16102.20090807.001

Attachment A:
Gettler Ryan Groundwater Monitoring Report, Event of June 16, 2009,
Chevron Service Station #20-9335, 1225 North 45th Street,
Seattle, Washington

GETTLER-RYAN INC.

TRANSMITTAL

August 5, 2009
G-R #386750

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

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

RE: Former Chevron Service Station #209335
1225 North 45th Street
Seattle, Washington

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
5	July 30, 2009	Groundwater Monitoring and Sampling Report **Event of June 16, 2009** **Special Event of July 1, 2009**

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 Rd., Room 3636, San Ramon, CA 94583
Mr. Russ Olsen, WDOE Northwest Regional Office, Voluntary Cleanup Program, 3190 160th Avenue S.E., Bellevue, WA 98008
Ms. Veronica Redstone, Housing Resources Group, 1651 Bellevue Avenue, Seattle, WA 98122-2014
Mr. Larry Hard, Seattle Housing Authority, 120 Sixth Avenue North, Seattle, WA 98109-5003

☑ Current Site Check List included.

Enclosure

6747 Sierra Court, Suite J • **Dublin**, CA 94568 • (925) 551-7555 • Fax (925) 551-7888
3140 Gold Camp Drive, Suite 170 • **Rancho Cordova**, CA 95670 • (916) 631-1300 • Fax (916) 631-1317
1364 N. McDowell Blvd., Suite B2 • **Petaluma**, CA 94954 • (707) 789-3255 • Fax (707) 789-3218

GETTLER-RYAN INC.

CHEVRON - SITE CHECK LIST

Facility#:	**Chevron #209335**	Date: 6-16
Address:	**1225 N. 45Th Street**	
City/St.:	**Seattle, WA**	
Status of Site:	APARTMENT BUILDING	

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-6	UTA				
MW-7	↓				
MW-8	↓				
MW-9	OK				
MW-10	OK	RUSTED	N/A	N/A	

Additional Comments/Observations:

GETTLER-RYAN INC.

CHEVRON - SITE CHECK LIST

Facility#:	**Chevron #209335**	Date:	7-1-09
Address:	**1225 N. 45Th Street**		
City/St.:	**Seattle, WA**		
Status of Site:	APARTMENT BUILDING GARAGE		

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-6	OK	OK	OK	OK	
MW-7	↓	↓	↓	↓	
MW-8	↓	↓	↓	↓	
MW-9	↓	↓	↓	↓	
MW-10	↓	Replcd	↓	Replcd	

Additional Comments/Observations:

GETTLER-RYAN INC.

July 30, 2009
Job #386750

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

RE: Event of June 16, 2009
Special Event of July 1, 2009
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #209335
1225 North 45th Street
Seattle, Washington

Dear Ms. Skance:

This report documents the most recent groundwater monitoring and sampling events 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 present in (1) well, MW-7. Static water level data and groundwater elevations are presented in Table 1. Separate Phase Hydrocarbon Thickness/Removal Data is presented in Table 2. A Potentiometric Map is included as Figures 1.

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets are attached. The samples were analyzed by a certified laboratory. Analytical results are presented in Table 1. 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.

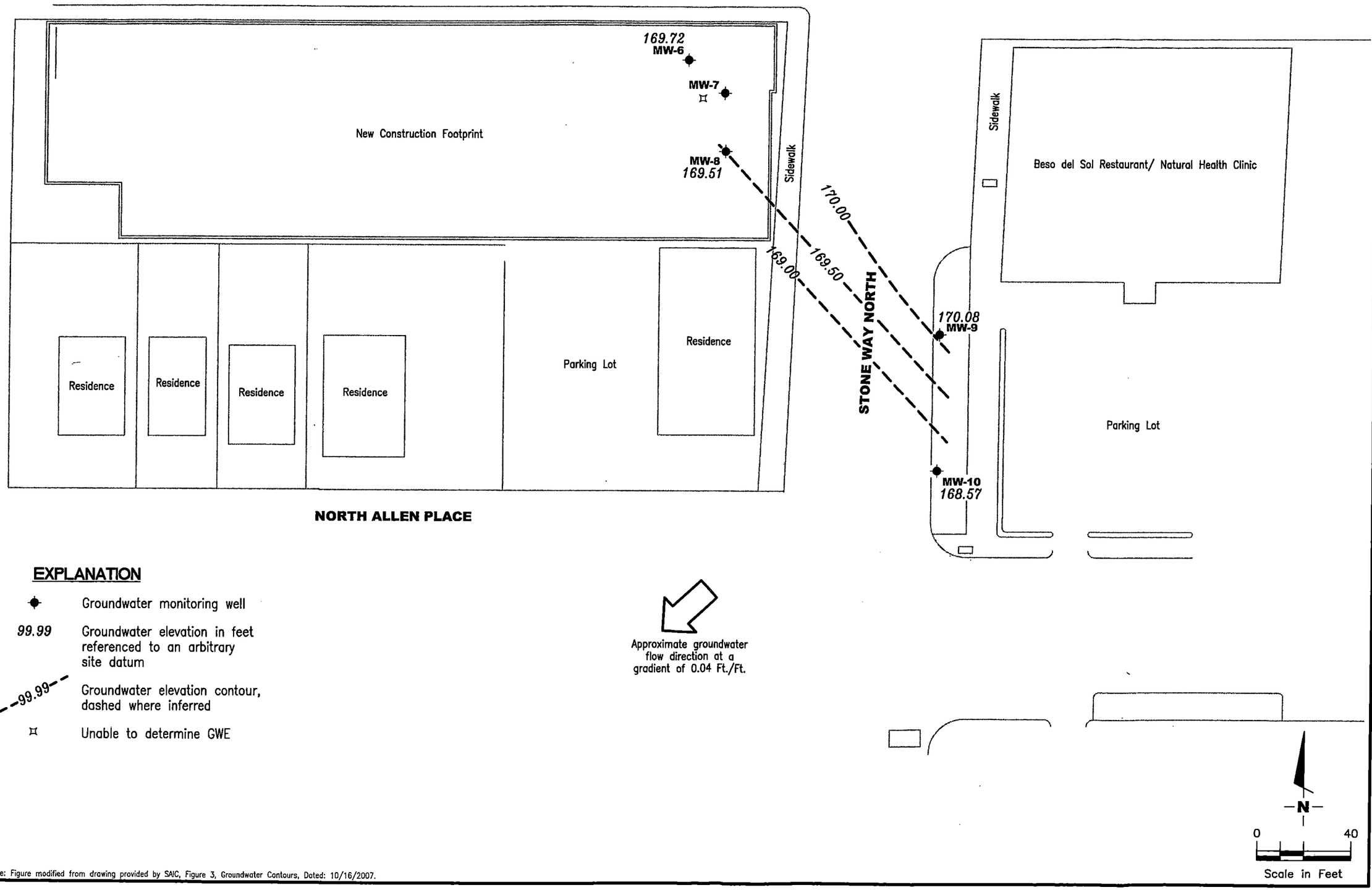
Sincerely,

Cheryl L. Hansen
—FOR—
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: Separate Phase Hydrocarbon Thickness/Removal Data
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, Figure 3, Groundwater Contours, Dated: 10/16/2007.

FIGURE 1

POTENTIOMETRIC MAP
Former Chevron Service Station #209335
1255 North 45th Street
Seattle, Washington

REVISED DATE

DATE
July 1, 2009

REVIEWED BY

PROJECT NUMBER
386750

FILE NAME: P:\Enviro\Chevron\209335\009-209335.dwg | Layout Tab: Pot3

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

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station # 209335

1225 North 45th Street

Seattle, Washington

WELL ID/ DATE		TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (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 (mg/L)
MW-1															
10/11/00[1]		97.95	--	34.50	--	63.45	--	--	--	--	--	--	--	--	--
12/16/00		97.95	--	35.91	0.00	62.04	ND[2,3]	ND[2,3]	74.4	ND	ND	ND	ND	ND	ND[4]
03/26/01		97.95	--	36.54	0.00	61.41	ND[3]	ND[3]	ND	ND	ND	ND	ND	ND	--
06/25/01		97.95	--	36.78	0.00	61.17	<281[3]	<842[3]	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
09/24/01		97.95	--	37.14	0.00	60.81	<250[3,8]	<500[3,8]	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
12/13/01		97.95	--	37.25	0.00	60.70	<250[3]	<500[3]	<80.0	<0.500	<0.500	<0.500	<1.00	--	--
03/08/02	NP	97.95	--	36.79	0.00	61.16	<250[3]	<750[3]	<50	<0.50	<0.50	<0.50	<1.5	--	--
05/29/02		97.95	--	36.44	0.00	61.51	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
09/16/02	NP	97.95	--	36.71	0.00	61.24	<250[3]	<250[3]	<50	<0.50	<0.50	<0.50	<1.5	--	--
12/05/02		97.95	--	37.09	0.00	60.86	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
03/04/03	NP	97.95	--	37.26	0.00	60.69	<250[3]	<250[3]	100	<0.50	<0.50	<0.50	<3.0	--	--
06/03/03		97.95	--	37.09	0.00	60.86	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
10/27/03		97.95	--	37.42	0.00	60.53	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	--	--
03/31/04	NP	97.95	--	37.12	0.00	60.83	<800[3]	<1,000[3]	<50	<0.5	<0.5	<0.5	<1.5	--	--
06/28/04		97.95	--	37.14	0.00	60.81	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
09/29/04		97.95	--	37.50	0.00	60.45	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	--	--
01/04/05		97.95	--	37.61	0.00	60.34	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
ABANDONED															
MW-2															
10/11/00[1]		98.70	--	34.50	--	64.20	--	--	--	--	--	--	--	--	--
12/16/00		98.70	--	36.46	0.00	62.24	1,000[3]	ND[3]	28,100	283	2,560	693	4,020	ND[2]	0.00194[4]
03/26/01		98.70	--	37.12	0.00	61.58	1,180[3,5]	ND[3]	17,000	143	1,450	378	2,180	[2]ND/ND[6]	--
06/25/01		98.70	--	37.37	0.00	61.33	418[3,5]	<750[3]	11,700	92.3	547	181	1,010	--	--
09/24/01		98.70	--	37.72	0.00	60.98	4,840[3,7,8]	<557[3,8]	22,100	120	1,380	658	4,100	--	--
12/13/01		98.70	--	37.89	0.00	60.81	5,540[3,5]	<500[3]	84,000	185	3,960	1,590	9,950	--	--
03/08/02		98.70	37.24	38.00	0.76	61.31***	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--
05/29/02		98.70	36.81	37.54	0.73	61.74***	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--
09/16/02		98.70	37.19	37.61	0.42	61.43***	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--
10/15/02		98.70	37.24	37.68	0.44	61.37***	--	--	--	--	--	--	--	--	--
11/22/02		98.70	37.12	37.63	0.51	61.48***	--	--	--	--	--	--	--	--	--
12/05/02		98.70	37.51	38.10	0.59	61.07***	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--
01/28/03		98.70	36.77	37.33	0.56	61.82***	--	--	--	--	--	--	--	--	--
02/13/03		98.70	37.44	38.02	0.58	61.14***	--	--	--	--	--	--	--	--	--
03/04/03		98.70	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station # 209335

1225 North 45th Street

Seattle, Washington

WELL ID/ DATE		TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (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 (mg/L)
MW-2 (cont)															
04/21/03		98.70	37.21	37.78	0.57	61.38***	--	--	--	--	--	--	--	--	--
05/08/03		98.70	37.43	37.94	0.51	61.17***	--	--	--	--	--	--	--	--	--
06/03/03		98.70	37.37	37.91	0.54	61.22***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--
07/06/03		98.70	36.96	37.51	0.55	61.63***	--	--	--	--	--	--	--	--	--
08/18/03		98.70	37.49	38.02	0.53	61.10***	--	--	--	--	--	--	--	--	--
10/27/03		98.70	37.54	39.98	2.44	60.67**	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--
11/17/03		98.70	37.10	37.58	0.48	61.50**	--	--	--	--	--	--	--	--	--
12/31/03		98.70	36.18	38.19	2.01	62.12**	--	--	--	--	--	--	--	--	--
02/09/04		98.70	37.00	37.49	0.49	61.60**	--	--	--	--	--	--	--	--	--
03/04/04		98.70	35.85	37.06	1.21	62.61**	--	--	--	--	--	--	--	--	--
03/31/04		98.70	37.32	39.05	1.73	61.03**	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--
06/28/04		98.70	37.32	39.05	1.73	61.03**	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--
09/11/04		98.70	37.65	39.10	1.45	60.76**	--	--	--	--	--	--	--	--	--
09/29/04		98.70	37.71	39.39	1.68	60.65**	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--
11/22/04		98.70	36.89	38.16	1.27	61.56**	--	--	--	--	--	--	--	--	--
01/04/05		98.70	37.88	39.80	1.92	60.44**	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--
01/14/05		98.70	37.49	39.02	1.53	60.90**	--	--	--	--	--	--	--	--	--
ABANDONED															
MW-3															
10/11/00[1]		98.76	--	34.00	--	64.76	--	--	--	--	--	--	--	--	--
12/16/00		98.76	--	36.39	0.00	62.37	ND[3]	ND[3]	ND	ND	0.612	ND	1.95	ND	ND[4]
03/26/01		98.76	--	37.05	0.00	61.71	ND[3]	ND[3]	ND	ND	ND	ND	ND	ND	--
06/25/01		98.76	--	37.29	0.00	61.47	<250[3]	<750[3]	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
09/24/01		98.76	--	37.64	0.00	61.12	<250[3,8]	<500[3,8]	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
12/13/01		98.76	--	37.78	0.00	60.98	<250[3]	<500[3]	<80.0	<0.500	<0.500	<0.500	<1.00	--	--
03/08/02	NP	98.76	--	37.28	0.00	61.48	<250[3]	<750[3]	320	<0.50	0.64	2.1	15	--	--
05/29/02		98.76	--	36.92	0.00	61.84	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
09/16/02	NP	98.76	--	37.21	0.00	61.55	<250[3]	<250[3]	<50	<0.50	<0.50	<0.50	<1.5	--	--
12/05/02		98.76	--	37.58	0.00	61.18	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
03/04/03	NP	98.76	--	37.79	0.00	60.97	<250[3]	<250[3]	<50	<0.50	<0.50	<0.50	<1.5	--	--
06/03/03		98.76	--	37.68	0.00	61.08	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
10/27/03	NP	98.76	--	38.00	0.00	60.76	<250[3]	<250[3]	<50	<0.5	<0.5	<0.5	<1.5	--	--
03/31/04	NP	98.76	--	37.65	0.00	61.11	<800[3]	<1,000[3]	<50	<0.5	<0.5	<0.5	<1.5	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station # 209335

1225 North 45th Street

Seattle, Washington

WELL ID/ DATE		TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (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 (mg/L)
MW-3 (cont)															
06/28/04		98.76	--	37.68	0.00	61.08	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
09/29/04	NP	98.76	--	38.01	0.00	60.75	<250[3]	<250[3]	<50	<0.5	<0.5	<0.5	<1.5	--	--
01/04/05		98.76	--	38.19	0.00	60.57	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
ABANDONED															
MW-4															
10/11/00[1]		98.52	--	35.00	--	63.52	--	--	--	--	--	--	--	--	--
12/16/00		98.52	--	36.35	0.00	62.17	ND[2,3]	ND[2,3]	58,200	326	5,520	1,430	8,520	ND[2]	0.0123[4]
03/26/01		98.52	--	37.00	0.00	61.52	266[3,5]	ND[3]	27,200	178	2,160	785	4,160	[2]ND/ND[6]	--
06/25/01		98.52	--	37.25	0.00	61.27	<250[3]	<750[3]	12,300	69.0	654	416	1,910	--	--
09/24/01		98.52	--	37.60	0.00	60.92	<250[3,8]	<500[3,8]	4,130	30.1	154	197	684	--	--
12/13/01		98.52	--	37.72	0.00	60.80	<250[3]	<500[3]	5,490	30.3	175	177	679	--	--
03/08/02	NP	98.52	--	38.36	0.00	60.16	<250[3]	<750[3]	9,000	<50	150	170	710	--	--
05/29/02	NP	98.52	--	36.86	0.00	61.66	<250[3]	<750[3]	6,700	22	150	190	780	--	--
08/07/02		98.52	--	36.92	0.00	61.60	--	--	--	--	--	--	--	--	--
09/16/02	NP	98.52	--	37.16	0.00	61.36	<250[3]	<250[3]	7,500	46	230	240	630	--	--
12/05/02	NP	98.52	--	37.53	0.00	60.99	<250[3]	<250[3]	14,000	73	400	540	1,500	--	--
03/04/03		98.52	36.68	36.71	0.03	61.83***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--
06/03/03		98.52	36.59	36.63	0.04	61.92***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--
07/06/03		98.52	36.90	36.93	0.03	61.61***	--	--	--	--	--	--	--	--	--
08/18/03		98.52	36.76	36.80	0.04	61.75***	--	--	--	--	--	--	--	--	--
10/27/03	NP	98.52	--	37.96	0.00	60.56	<400[3]	<500[3]	2,200	16	55	76	170	--	--
11/17/03		98.52	36.34	36.37	0.03	62.17**	--	--	--	--	--	--	--	--	--
12/31/03		98.52	--	36.88	0.00	61.64	--	--	--	--	--	--	--	--	--
02/09/04		98.52	36.14	36.17	0.03	62.37**	--	--	--	--	--	--	--	--	--
03/04/04		98.52	--	36.74	0.00	61.78	--	--	--	--	--	--	--	--	--
03/31/04	NP	98.52	--	37.59	0.00	60.93	<250[3]	<250[3]	3,900	14	96	110	340	--	--
06/28/04	NP	98.52	--	37.54	0.00	60.98	<250[3]	<250[3]	1,600	8.5	15	59	110	--	--
09/11/04		98.52	37.78	37.81	0.03	60.73**	--	--	--	--	--	--	--	--	--
09/29/04	NP	98.52	--	37.86	0.00	60.66	<250[3]	<250[3]	1,500	18	40	76	170	--	--
11/22/04		98.52	--	36.81	0.00	61.71	--	--	--	--	--	--	--	--	--
01/04/05	NP	98.52	--	38.11	0.00	60.41	1,600[3]	<250[3]	1,600	10	13	60	110	--	--
01/14/05		98.52	--	37.58	0.00	60.94	--	--	--	--	--	--	--	--	--
ABANDONED															

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station # 209335

1225 North 45th Street

Seattle, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (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 (mg/L)
MW-5														
10/11/00[1]	99.42	--	34.50	--	64.92	--	--	--	--	--	--	--	--	--
12/16/00	99.42	--	37.18	0.00	62.24	5,080[3]	ND[3]	146,000	ND[2]	15,100	4,160	24,100	ND[2]	0.0200[4]
03/26/01	99.42	--	37.91	0.00	61.51	77,900[3,5]	ND[3]	149,000	256	10,600	4,000	24,200	[2]ND/ND[6]	--
06/25/01	99.42	--	38.14	0.00	61.28	109,000[3]	<18,100[3]	127,000	210	9,580	3,730	21,500	--	--
09/24/01	99.42	38.40	38.44	0.04	61.01***	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--
12/13/01	99.42	38.55	38.59	0.04	60.86***	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--
03/08/02	99.42	37.96	38.46	0.50	61.36***	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--
05/29/02	99.42	37.60	38.05	0.45	61.73***	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--
08/07/02	99.42	37.73	38.12	0.39	61.61***	--	--	--	--	--	--	--	--	--
09/16/02	99.42	38.00	38.39	0.39	61.34***	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--
10/15/02	99.42	38.09	38.47	0.38	61.25***	--	--	--	--	--	--	--	--	--
11/22/02	99.42	37.84	38.26	0.42	61.50***	--	--	--	--	--	--	--	--	--
12/05/02	99.42	38.42	38.78	0.36	60.93***	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--
01/28/03	99.42	37.88	38.24	0.36	61.47***	--	--	--	--	--	--	--	--	--
02/13/03	99.42	38.33	38.68	0.35	61.02***	--	--	--	--	--	--	--	--	--
03/04/03	99.42	37.54	37.89	0.35	61.81***	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--
04/21/03	99.42	37.96	38.29	0.33	61.39***	--	--	--	--	--	--	--	--	--
05/08/03	99.42	38.50	38.82	0.32	60.86***	--	--	--	--	--	--	--	--	--
06/03/03	99.42	37.42	37.76	0.34	61.93***	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--
07/06/03	99.42	37.77	38.11	0.34	61.58***	--	--	--	--	--	--	--	--	--
08/18/03	99.42	38.54	38.86	0.32	60.82***	--	--	--	--	--	--	--	--	--
10/27/03	99.42	WELL DRY/OBSTRUCTED			--	--	--	--	--	--	--	--	--	--
11/17/03	99.42	37.87	38.17	0.30	61.49**	--	--	--	--	--	--	--	--	--
12/31/03	99.42	WELL DRY/OBSTRUCTED			--	--	--	--	--	--	--	--	--	--
02/09/04	99.42	WELL DRY/OBSTRUCTED			--	--	--	--	--	--	--	--	--	--
03/04/04	99.42	WELL DRY/OBSTRUCTED			--	--	--	--	--	--	--	--	--	--
03/31/04	99.42	WELL DRY/OBSTRUCTED			--	--	--	--	--	--	--	--	--	--
06/28/04	99.42	WELL DRY/OBSTRUCTED			--	--	--	--	--	--	--	--	--	--
09/11/04	99.42	WELL DRY/OBSTRUCTED			--	--	--	--	--	--	--	--	--	--
09/29/04	99.42	WELL DRY/OBSTRUCTED			--	--	--	--	--	--	--	--	--	--
11/22/04	99.42	WELL DRY/OBSTRUCTED			--	--	--	--	--	--	--	--	--	--
01/04/05	99.42	WELL DRY/OBSTRUCTED			--	--	--	--	--	--	--	--	--	--
01/14/05	99.42	WELL DRY/OBSTRUCTED			--	--	--	--	--	--	--	--	--	--
ABANDONED														

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station # 209335

1225 North 45th Street

Seattle, Washington

WELL ID/ DATE		TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (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 (mg/L)
MW-6															
02/09/06		197.18	--	36.74	0.00	160.44	680	98	1500	<0.5	0.7	1.2	37	--	--
05/03/07		197.18	--	36.74	0.00	160.44	1000	130	380	29	1	4	30	--	--
06/16/09		**197.18**	**INACCESSIBLE**		--	--	--	--	--	--	--	--	--	--	--
07/01/09	**NP**	**197.18**	**--**	**27.46**	**0.00**	**169.72**	**270[3]**	**<70[3]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**--**	**22.9**
MW-7															
02/09/06		197.42	37.87	38.17	0.30	159.49**	--	--	--	--	--	--	--	--	--
05/03/07		197.42	26.55	27.80	0.00	169.62**	--	--	--	--	--	--	--	--	--
06/16/09		**197.42**	**INACCESSIBLE**		--	--	--	--	--	--	--	--	--	--	--
07/01/09[9]		**197.42**	**27.39**	**--[10]**	**--[10]**	**--[10]**	**NOT SAMPLED DUE TO THE PRESENCE OF SPH**					--	--	--	--
MW-8															
02/09/06		197.35	--	36.74	0.00	160.61	280	<96	440	<0.5	1.1	3.3	28	--	--
05/03/07		197.35	--	36.74	0.00	160.61	940	<200	2600	<0.5	<0.5	<0.5	<0.5	--	--
06/16/09		**197.35**	**INACCESSIBLE**		--	--	--	--	--	--	--	--	--	--	--
07/01/09	**NP**	**197.35**	**--**	**27.84**	**0.00**	**169.51**	**390[3]**	**<700[3]**	**430**	**<0.5**	**<0.5**	**<0.5**	**2.2**	**--**	**3.5**
MW-9															
05/03/07		208.11	--	36.74	0.00	171.37	<400	<500	<50	<0.5	<0.5	4	18	--	--
06/16/09		**208.11**	**--**	**38.72**	**0.00**	**169.39**	--	--	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**--**	**19.3**
07/01/09	**NP**	**208.11**	**--**	**38.03**	**0.00**	**170.08**	**<31[3]**	**<71[3]**	--	--	--	--	--	--	--
MW-10															
05/03/07		207.29	--	36.74	0.00	170.55	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
06/16/09		**207.29**	**INACCESSIBLE**		--	--	--	--	--	--	--	--	--	--	--
07/01/09	**NP**	**207.29**	**--**	**38.72**	**0.00**	**168.57**	**<30[3]**	**<69[3]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**--**	**10.9**
TRIP BLANK															
12/16/00		--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--
03/26/01		--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--
06/25/01		--	--	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station # 209335

1225 North 45th Street

Seattle, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (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 (mg/L)
TRIP BLANK (cont)														
09/24/01	--	--	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
12/13/01	--	--	--	--	--	--	--	<80.0	<0.500	<0.500	<0.500	<1.00	--	--
03/08/02	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	--
05/29/02	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	--
09/16/02	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	--
12/05/02	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	--
03/04/03	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	--
10/27/03	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
QA														
03/31/04	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
06/28/04	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
09/29/04	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
01/04/05	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
06/16/09	--	--	--	--	--	--	--	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	--	--
07/01/09	--	--	--	--	--	--	--	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	--	--

	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	--	0.00100
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 8021						EPA 6020

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station # 209335
1225 North 45th Street
Seattle, Washington

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to December 16, 2000, were compiled from reports prepared by Delta Environmental Consultants Inc.
Groundwater monitoring data and laboratory analytical results for February 9, 2006, and May 3, 2007 events were compiled from reports prepared by SAIC.

TOC = Top of Casing
(ft.) = Feet
DTP = Depth to Product
DTW = Depth to Water
GWE = Groundwater Elevation
SPH = Separate Phase Hydrocarbon
SPHT = Separate Phase Hydrocarbon Thickness
TPH = Total Petroleum Hydrocarbons

DRO = Diesel Range Organics
HRO = Heavy Range Organics
GRO = Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl Tertiary Butyl Ether

D. Lead = Dissolved Lead
ND = Not Detected
NP = No Purge
-- = Not Measured/Not Analyzed
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 provided by SAIC. TOC elevations are referenced to mean sea level.
TOC elevations have been provided by Delta Environmental Consultants, Inc. referenced to an assumed datum in feet.

** GWE has been corrected for the presence of SPH; correction factor = [(TOC - DTW) + (SPHT x 0.80)]

*** GWE has been corrected for the presence of SPH; correction factor = [(TOC - DTP - SPHT) + (SPHT x 0.80)]; Historical data has been altered to correct error in original reporting of depth to product as depth to water.

1 Data provided by Delta Environmental Consultants, Inc.

2 Detection limit raised. Refer to analytical reports.

3 Analyzed with silica-gel cleanup.

4 Filtered at the laboratory.

5 Laboratory report indicates results in the diesel organics range are primarily due to overlap from a gasoline range product.

6 MTBE by EPA Method 8260.

7 Laboratory report indicates the sample chromatographic pattern does not resemble the fuel standard used for quantitation.

8 Laboratory report indicates the sample was prepared outside of the method established holding time.

9 Skimmer in well.

10 Interface probe could not detect this type of LNAPL, unable to gauge hydrocarbon thickness. From visual confirmation estimate thickness to be approximately 1.5 feet.

Table 2

Separate Phase Hydrocarbon Thickness/Removal Data

Former Chevron Service Station #209335

1225 North 45th Street

Seattle, Washington

WELL ID	DATE	DTP (ft.)	DTW (ft.)	SPH THICKNESS (ft.)	AMOUNT BAILED (SPH + WATER) (gallons)
MW-2	03/08/02	37.24	38.00	0.76	2.00
	05/29/02	36.81	37.54	0.73	2.00
	09/16/02	37.19	37.61	0.42	2.00
	10/15/02	37.24	37.68	0.44	2.00
	11/22/02	37.12	37.63	0.51	2.00
	12/05/02	37.51	38.10	0.59	2.00
	01/28/03	36.77	37.33	0.56	2.00
	02/13/03	37.44	38.02	0.58	2.00
	03/04/03	INACCESSIBLE - VEHICLE PARKED OVER WELL			--
	04/21/03	37.21	37.78	0.57	2.00
	05/08/03	37.43	37.94	0.51	2.00
	06/03/03	37.37	37.91	0.54	2.00
	07/06/03	36.96	37.51	0.55	2.00
	08/18/03	37.49	38.02	0.53	2.00
	10/27/03	37.54	39.98	2.44	2.00
	11/17/03	37.10	37.58	0.48	2.00
	12/31/03	36.18	38.19	2.01	2.00
	02/09/04	37.00	37.49	0.49	2.00
	03/04/04	35.85	37.06	1.21	2.00
	03/31/04	37.32	39.05	1.73	0.00
	06/28/04	37.32	39.05	1.73	2.00
	09/11/04	37.65	39.10	1.45	0.00
	09/29/04	37.71	39.39	1.68	2.00
	11/22/04	36.89	38.16	1.27	2.00
	01/04/05	37.88	39.80	1.92	2.00
	01/14/05	37.49	39.02	1.53	2.00
	ABANDONED				
MW-4	03/04/03	36.68	36.71	0.03	0.33
	06/03/03	36.59	36.63	0.04	0.33
	07/06/03	36.90	36.93	0.03	0.33
	08/18/03	36.76	36.80	0.04	0.33
	10/27/03	--	37.96	0.00	0.00
	11/17/03	36.34	36.37	0.03	0.33
	12/31/03	--	36.88	0.00	0.00
	02/09/04	36.14	36.17	0.03	0.33
	03/04/04	--	36.74	0.00	0.00
	03/31/04	--	37.59	0.00	0.00
	06/28/04	--	37.54	0.00	0.00
	09/11/04	37.78	37.81	0.03	0.00
	09/29/04	--	37.86	0.00	0.00
	11/22/04	--	36.81	0.00	0.00
	01/04/05	--	38.11	0.00	0.00
	01/14/05	--	37.58	0.00	0.00
	ABANDONED				
MW-5	09/24/01	38.40	38.44	0.04	0.00
	12/13/01	38.55	38.59	0.04	0.00
	03/08/02	37.96	38.46	0.50	2.00
	05/29/02	37.60	38.05	0.45	2.00

Table 2

Separate Phase Hydrocarbon Thickness/Removal Data

Former Chevron Service Station #209335

1225 North 45th Street

Seattle, Washington

WELL ID	DATE	DTP (ft.)	DTW (ft.)	SPH THICKNESS (ft.)	AMOUNT BAILED (SPH + WATER) (gallons)
MW-5 (cont)	08/07/02	37.73	38.12	0.39	2.00
	09/16/02	38.00	38.39	0.39	2.00
	10/15/02	38.09	38.47	0.38	2.00
	11/22/02	37.84	38.26	0.42	2.00
	12/05/02	38.42	38.78	0.36	2.00
	01/28/03	37.88	38.24	0.36	2.00
	02/13/03	38.33	38.68	0.35	2.00
	03/04/03	37.54	37.89	0.35	2.00
	04/21/03	37.96	38.29	0.33	2.00
	05/08/03	38.50	38.82	0.32	2.00
	06/03/03	37.42	37.76	0.34	2.00
	07/06/03	37.77	38.11	0.34	2.00
	08/18/03	38.54	38.86	0.32	2.00
	10/27/03	WELL DRY/OBSTRUCTED		--	--
	11/17/03	37.87	38.17	0.30	2.00
	12/31/03	WELL DRY/OBSTRUCTED		--	--
	02/09/04	WELL DRY/OBSTRUCTED		--	--
	03/04/04	WELL DRY/OBSTRUCTED		--	--
	03/31/04	WELL DRY/OBSTRUCTED		--	--
	06/28/04	WELL DRY/OBSTRUCTED		--	--
	09/11/04	WELL DRY/OBSTRUCTED		--	--
	09/29/04	WELL DRY/OBSTRUCTED		--	--
	11/22/04	WELL DRY/OBSTRUCTED		--	--
	01/04/05	WELL DRY/OBSTRUCTED		--	--
	01/14/05	WELL DRY/OBSTRUCTED		--	--
	ABANDONED				
MW-7	**06/16/09**	**INACCESSIBLE**	--	--	--
	07/01/09	**27.39**	--[1]	--[1]	**0.00**

Table 2

Separate Phase Hydrocarbon Thickness/Removal Data

Former Chevron Service Station #209335

1225 North 45th Street

Seattle, Washington

EXPLANATIONS:

DTP = Depth to Product
DTW = Depth to Water
(ft.) = Feet
SPH = Separate Phase Hydrocarbons
-- = Not Measured/Not Analyzed

Note: Historical data has been altered to correct error in original reporting of depth to product as depth to water.

[1] Interface probe could not detect this type of LNAPL, unable to gauge hydrocarbon thickness. From visual confirmation estimate thickness to be approximately 1.5 feet.

FORMER CHEVRON SERVICE STATION #209335
Seattle, Washington

FIRST SEMI-ANNUAL MONITORING & SAMPLING EVENT OF JUNE 16, 2009

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #209335 Job Number: 386750
Site Address: 1225 N. 45Th Street Event Date: 6-16 (inclusive)
City: Seattle, WA Sampler: ML

Well ID MW-6 Date Monitored: —
Well Diameter 2 in.
Total Depth 38.38 ft.
Depth to Water — 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
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Discrete Bailer
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): Weather Conditions:
Sample Time/Date: / Water Color: Odor: Y / N
Approx. Flow Rate: gpm. Sediment Description:
Did well de-water? If yes, Time: Volume: gal. DTW @ Sampling:

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (ICP/MS 6020)

COMMENTS: UNABLE TO ACCESS

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #209335 Job Number: 386750
Site Address: 1225 N. 45Th Street Event Date: 6-16 (inclusive)
City: Seattle, WA Sampler: ML

Well ID MW-7 Date Monitored: —
Well Diameter 2 in.
Total Depth 41.62 ft.
Depth to Water — 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
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Discrete Bailer
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): Weather Conditions:
Sample Time/Date: / Water Color: Odor: Y / N
Approx. Flow Rate: gpm. Sediment Description:
Did well de-water? If yes, Time: Volume: gal. DTW @ Sampling:

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (ICP/MS 6020)

COMMENTS: UNABLE TO ACCESS

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #209335** Job Number: **386750**

Site Address: **1225 N. 45Th Street** Event Date: 6-16 (inclusive)

City: **Seattle, WA** Sampler: ML

Well ID **MW-8** Date Monitored: 6-16

Well Diameter **2** in.

Total Depth 41.63 ft.

Depth to Water — ft. ☐ Check if water column is less then 0.50 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

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

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

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer
Pressure Bailer
Discrete Bailer
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): Weather Conditions:

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

Approx. Flow Rate: gpm. Sediment Description:

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

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (ICP/MS 6020)

COMMENTS: UNABLE TO ACCESS

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #209335 Job Number: 386750
Site Address: 1225 N. 45Th Street Event Date: 6-16 (inclusive)
City: Seattle, WA Sampler: ML

Well ID MW-9 Date Monitored: 6-16
Well Diameter 2 in.
Total Depth 41.57 ft.
Depth to Water 38.72 ft.

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

☐ Check if water column is less then 0.50 ft.

2.85 xVF .17 = 0.4 x3 case volume = Estimated Purge Volume: 1.2 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 39.29

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

Sampling Equipment:
Disposable Bailer X
Pressure Bailer
Discrete Bailer
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): 1430 Weather Conditions: SUNNY
Sample Time/Date: 1800 16-16 Water Color: Clear Odor: Y (N)
Approx. Flow Rate: - gpm. Sediment Description: none
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 38.89

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) (µS)	Temperature (C) / F	D.O. (mg/L)	ORP (mV)
1434	0.5	6.96	316	15.4		
1438	1	6.94	322	15.4		
1442	1.25	6.95	324	15.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	1 x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (ICP/MS 6020)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #209335** Job Number: **386750**

Site Address: **1225 N. 45Th Street** Event Date: 10-16 (inclusive)

City: **Seattle, WA** Sampler: ML

Well ID **MW-10** Date Monitored: 10-16

Well Diameter **2** in.

Total Depth 35.94 ft.

Depth to Water — ft. ☐ Check if water column is less then 0.50 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

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

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

Purge Equipment:

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

Sampling Equipment:

- Disposable Bailer
- Pressure Bailer
- Discrete Bailer
- 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): Weather Conditions:

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

Approx. Flow Rate: gpm. Sediment Description:

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

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (ICP/MS 6020)

COMMENTS: INACCESSIBLE - Bolt heads rusted

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

FORMER CHEVRON SERVICE STATION #209335
Seattle, Washington

SPECIAL EVENT OF
JULY 1, 2009

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #209335 Job Number: 386750
Site Address: 1225 N. 45Th Street Event Date: 7-1 (inclusive)
City: Seattle, WA Sampler: MW

Well ID MW-6 Date Monitored: 7-1
Well Diameter 2 in.
Total Depth 38.35 ft.
Depth to Water 27.46 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 X
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer X
Pressure Bailer
Discrete Bailer
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): ____ Weather Conditions: SUNNY
Sample Time/Date: 1310 / 7-1 Water Color: Clear Odor: Y / (N)
Approx. Flow Rate: ____ gpm. Sediment Description: None
Did well de-water? No If yes, Time: ____ Volume: ____ gal. DTW @ Sampling: 27.46

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-6	3 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	1 x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (ICP/MS 6020)

COMMENTS: ____

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #209335 Job Number: 386750
Site Address: 1225 N. 45Th Street Event Date: 7-1 (inclusive)
City: Seattle, WA Sampler: MC

Well ID MW-7 Date Monitored: 7-1
Well Diameter 2 in.
Total Depth 41.62 ft.
Depth to Water — ft. ☐ Check if water column is less then 0.50 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

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

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

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

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Discrete Bailer
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: — (2400 hrs)
Time Completed: — (2400 hrs)
Depth to Product: 27.39 ft
Depth to Water: — ft
Hydrocarbon Thickness: — ft
Visual Confirmation/Description: GRAY
(Skimmer) / Absorbant Sock (circle one)
Amt Removed from Skimmer: — gal
Amt Removed from Well: — gal
Water Removed: —
Product Transferred to: —

Start Time (purge): Weather Conditions:
Sample Time/Date: / Water Color: Odor: Y / N
Approx. Flow Rate: gpm. Sediment Description:
Did well de-water? If yes, Time: Volume: gal. DTW @ Sampling:

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (ICP/MS 6020)

COMMENTS: Skimmer in well, Interface probe could not detect this type of LNAPL, unable to gauge hydrocarbon thickness. From visual confirmation estimate thickness to be approximately 1.5 feet.

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #209335 Job Number: 386750
Site Address: 1225 N. 45Th Street Event Date: 7-1 (inclusive)
City: Seattle, WA Sampler: ML

Well ID MW-8 Date Monitored: 7-1
Well Diameter 2 in.
Total Depth 41.63 ft.
Depth to Water 27.84 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]: —

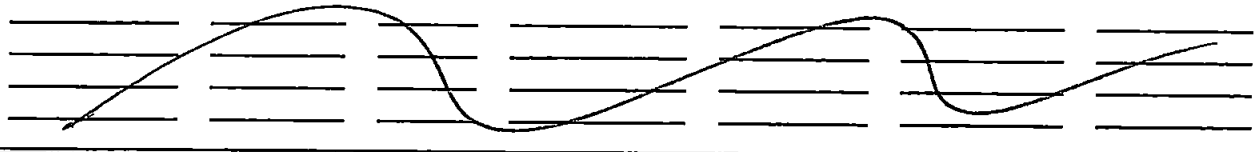
Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer X
Pressure Bailer
Discrete Bailer
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): — Weather Conditions: SUNNY
Sample Time/Date: 1330 / 7-1 Water Color: Clear Odor: Y / (N)
Approx. Flow Rate: — gpm. Sediment Description: None
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 27.84

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)



LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-8	3 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	1 x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (ICP/MS 6020)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #209335 Job Number: 386750
Site Address: 1225 N. 45Th Street Event Date: 7-1-09 (inclusive)
City: Seattle, WA Sampler: MR

Well ID MW-9
Well Diameter 2 in.
Total Depth 41.51 ft.
Depth to Water 38.03 ft.

Date Monitored: 7-1-09

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
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer X
Pressure Bailer
Discrete Bailer
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): —
Sample Time/Date: 1150 7-1-09
Approx. Flow Rate: — gpm.
Did well de-water? NO If yes, Time: Volume: gal.

Weather Conditions: SUNNY
Water Color: Clear Odor: Y / N
Sediment Description: none
DTW @ Sampling: 38.03

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	~~x voa vial~~	~~YES~~	~~HCL~~	~~LANCASTER~~	~~NWTPH-Gx/BTEX(8021)~~
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	~~x 500ml poly~~	~~YES~~	~~HNO3~~	~~LANCASTER~~	~~TOTAL LEAD (ICP/MS 6020)~~

COMMENTS: NO PURGE SAMPLE TAKEN

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #209335 Job Number: 386750
Site Address: 1225 N. 45Th Street Event Date: 7-1 (inclusive)
City: Seattle, WA Sampler: MM

Well ID MW-10 Date Monitored: 7-1
Well Diameter 2 in.
Total Depth 35.91 ft.
Depth to Water 38.72 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]: —

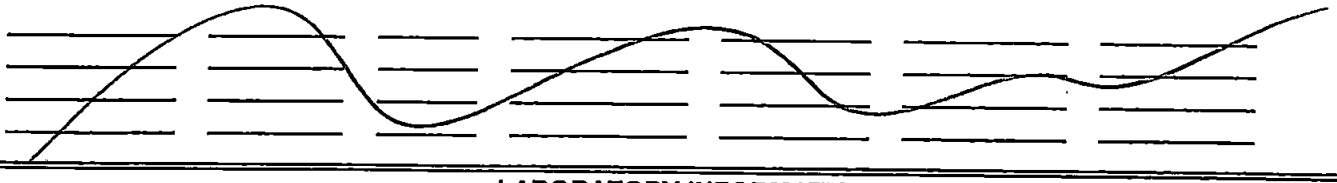
Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer X
Pressure Bailer
Discrete Bailer
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): — Weather Conditions: SUNNY
Sample Time/Date: 1210 / 7-1 Water Color: Clear Odor: Y / (N)
Approx. Flow Rate: — gpm. Sediment Description: None
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 38.72

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)



LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	3 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	1 x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (ICP/MS 6020)

COMMENTS: NO PURGE

Add/Replaced Lock: X Add/Replaced Plug: — Add/Replaced Bolt: 1

Chevron Northwest Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 112160 Sample #: 5702960-601 SCR#:

Group# 1149809

Facility #: SS#209335-OML G-R#386750
Site Address: 1225 N. 45th Street, SEATTLE, WA
Chevron PM: OS Lead Consultant: SAICDW
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:

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil	Matrix: Air	Total Number of Containers	Analyses Requested / Preservation Codes: BTEX + 8021 / 8260 ☐ Naphth	8260 full scan	Oxygenates	TPH G	TPH D	Extended Rng. Silica Gel Cleanup	Lead Total	Diss.	Method 8020	VPH/EPH	NWTPH H HCID	quantification
QA	6-16		X			X			N	X			X								
MW-9	6-16	1500	X			X			9	X			X	X		X					

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

Comments / Remarks

No Dx on MW-9 as ambers arrived broken at lab.
gmp 6/19/09

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.

	Date	Time	Received by:	Date	Time
Relinquished by:	6-17	1600			
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS (FedEx) Other ____			Received by:	6/18/09	945

Temperature Upon Receipt 0.6-5.0 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

June 26, 2009

SAMPLE GROUP

The sample group for this submittal is 1149809. Samples arrived at the laboratory on Thursday, June 18, 2009. The PO# for this group is 0015040041 and the release number is SKANCE.

Client Description	Lancaster Labs Number
QA Water Sample	5702960
MW-9 Grab Water Sample	5702961

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Chronicle.

ELECTRONIC COPY TO SAIC c/o Gettler-Ryan Attn: Cheryl Hansen

Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,

Julie A. Slaughenhoupt
Senior Specialist

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 5702960

Group No. 1149809
WA

QA Water Sample
Facility# 209335 Job# 386750
1225 N 45th Street - Seattle, WA

Collected: 06/16/2009

Account Number: 11260

Submitted: 06/18/2009 09:45
Reported: 06/26/2009 at 16:21
Discard: 07/27/2009

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

45-QA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
ECY 97-602 NWTPH-Gx	**GC Volatiles**		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
SW-846 8021B	**GC Volatiles**		ug/l	ug/l	
05879	Benzene	71-43-2	N.D.	0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	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 Chronicle

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	09171A53A	06/20/2009 13:32	Carrie E Miller	1
05879	BTEX	SW-846 8021B	1	09171A53A	06/20/2009 13:32	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	09171A53A	06/20/2009 13:32	Carrie E Miller	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5702961

Group No. 1149809
WA

MW-9 Grab Water Sample
Facility# 209335 Job# 386750
1225 N 45th Street - Seattle, WA

Collected: 06/16/2009 15:00 by ML

Account Number: 11260

Submitted: 06/18/2009 09:45
Reported: 06/26/2009 at 16:21
Discard: 07/27/2009

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

45-M9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
ECY 97-602 NWTPH-Gx	**GC Volatiles**		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
SW-846 8021B	**GC Volatiles**		ug/l	ug/l	
05879	Benzene	71-43-2	N.D.	0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	Total Xylenes	1330-20-7	N.D.	1.5	1
SW-846 6020	**Metals**		ug/l	ug/l	
06035	Lead	7439-92-1	19.3	0.050	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 Chronicle

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	09171A53A	06/20/2009 15:58	Carrie E Miller	1
05879	BTEX	SW-846 8021B	1	09171A53A	06/20/2009 15:58	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	09171A53A	06/20/2009 15:58	Carrie E Miller	1
06035	Lead	SW-846 6020	1	091746050002A	06/26/2009 09:15	David K Beck	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	091746050002	06/24/2009 14:26	James L Mertz	1

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Analysis Report

Quality Control Summary

Client Name: Chevron
Reported: 06/26/09 at 04:21 PM

Group Number: 1149809

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: 09171A53A	Sample number(s): 5702960-5702961							
Benzene	N.D.	0.5	ug/l	105	110	80-120	5	30
Ethylbenzene	N.D.	0.5	ug/l	105	110	80-120	5	30
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	100	109	75-135	9	30
Toluene	N.D.	0.5	ug/l	105	105	80-120	0	30
Total Xylenes	N.D.	1.5	ug/l	107	110	80-120	3	30
Batch number: 091746050002A	Sample number(s): 5702961							
Lead	0.058	0.050	ug/l	99		90-115		

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: 09171A53A	Sample number(s): 5702960-5702961 UNSPK: P702607, P702956								
Benzene	110		70-152						
Ethylbenzene	110		75-133						
NWTPH-Gx water C7-C12	100		48-140						
Toluene	110		78-129						
Total Xylenes	115		67-155						
Batch number: 091746050002A	Sample number(s): 5702961 UNSPK: P704066 BKG: P704066								
Lead	100	102	75-125	1	20	0.27	0.27	1 (1)	20

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
Batch number: 09171A53A

	Trifluorotoluene-F	Trifluorotoluene-P
5702960	84	87
5702961	85	87
Blank	85	87
LCS	86	88
LCSD	91	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.

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Analysis Report

Quality Control Summary

Client Name: Chevron
Reported: 06/26/09 at 04:21 PM

Group Number: 1149809

Surrogate Quality Control

MS	85	88
Limits:	63-135	69-129

*- 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.

Chevron Northwest Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

Acct. #: 11260 — For Lancaster Laboratories use only — Sample #: 5716074-78 — SCR#:

C# 1152073

Facility #: SS#209335-OML G-R#386750
Site Address: 1225 N. 45th Street, SEATTLE, 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: ____

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Water	Oil ☐ Air ☐	Total Number of Containers
QA	7-1		X			X		2
MW-6		1310	X			X		6
MW-8		1330	X			X		6
MW-9		1150	X			X		6
MW-10	↓	1210	X			X		6

Analyses Requested — Preservation Codes

Preservation Codes	BTEX + ☐ Naphth ☐ 8260 ☒ 8021	8260 full scan	Oxygenates	TPH G	TPH D	Extended Rng. ☐ Silica Gel Cleanup	Lead Total ☒ Diss. ☐ Method (6020)	VPH/EPH	NWTPH HCID ☐ quantification
QA	H			H	H		N		
MW-6	X			X	X		X		
MW-8	X			X	X		X		
MW-9	X			X	X		X		
MW-10	X			X	X		X		

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

Comments / Remarks

MW-9 only analyzed for Dx as lab did not receive any other bottles. jmp 7/6/09

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.

	Date	Time		Date	Time
Relinquished by:	7-2	1600	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS FedEx Other ____			Received by:	7/6/09	0900

Temperature Upon Receipt 1°C - 2°C
Custody Seals Intact? Yes No

Lancaster Laboratories
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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

July 15, 2009

SAMPLE GROUP

The sample group for this submittal is 1152073. Samples arrived at the laboratory on Friday, July 03, 2009. The PO# for this group is 0015040041 and the release number is SKANCE.

Client Description	Lancaster Labs Number
QA Water Sample	5716074
MW-6 Grab Water Sample	5716075
MW-8 Grab Water Sample	5716076
MW-9 Grab Water Sample	5716077
MW-10 Grab Water Sample	5716078

METHODOLOGY

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

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Analysis Report

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

Respectfully Submitted,

Max E. Snavely
Senior Specialist

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 5716074

Group No. 1152073
WA

QA Water Sample
Facility# 209335 Job# 386750
1225 N. 45th Street - Seattle, WA

Collected: 07/01/2009

Account Number: 11260

Submitted: 07/03/2009 09:00
Reported: 07/15/2009 at 10:52
Discard: 08/15/2009

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
ECY 97-602 NWTPH-Gx	**GC Volatiles**		**ug/l**	**ug/l**	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
SW-846 8021B	**GC Volatiles**		**ug/l**	**ug/l**	
05879	Benzene	71-43-2	N.D.	0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	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	09183A94B	07/06/2009 21:40	Carrie E Miller	1
05879	BTEX	SW-846 8021B	1	09183A94B	07/06/2009 21:40	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	09183A94B	07/06/2009 21:40	Carrie E Miller	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 5716075

Group No. 1152073
WA

MW-6 Grab Water Sample
Facility# 209335 Job# 386750
1225 N. 45th Street - Seattle, WA

Collected: 07/01/2009 13:10 by ML

Account Number: 11260

Submitted: 07/03/2009 09:00
Reported: 07/15/2009 at 10:52
Discard: 08/15/2009

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

45S06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
ECY 97-602 NWTPH-Gx	**GC Volatiles**		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
SW-846 8021B	**GC Volatiles**		ug/l	ug/l	
05879	Benzene	71-43-2	N.D.	0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	Total Xylenes	1330-20-7	N.D.	1.5	1
ECY 97-602 NWTPH-Dx modified	**GC Extractable TPH w/Si Gel**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	270	30	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	70	1
SW-846 6020	**Metals**		ug/l	ug/l	
06035	Lead	7439-92-1	22.9	0.050	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	09183A94B	07/06/2009 22:33	Carrie E Miller	1
05879	BTEX	SW-846 8021B	1	09183A94B	07/06/2009 22:33	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	09183A94B	07/06/2009 22:33	Carrie E Miller	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	091940009A	07/14/2009 18:00	Diane V Do	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	2	091940009A	07/13/2009 15:05	Cody R Hanna	1
06035	Lead	SW-846 6020	1	091876050006A	07/13/2009 08:29	David K Beck	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	091876050006	07/08/2009 14:52	James L Mertz	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 5716076

Group No. 1152073
WA

MW-8 Grab Water Sample
Facility# 209335 Job# 386750
1225 N. 45th Street - Seattle, WA

Collected: 07/01/2009 13:30 by ML

Account Number: 11260

Submitted: 07/03/2009 09:00
Reported: 07/15/2009 at 10:52
Discard: 08/15/2009

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

45S08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
ECY 97-602 NWTPH-Gx	**GC Volatiles**		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	430	50	1
SW-846 8021B	**GC Volatiles**		ug/l	ug/l	
05879	Benzene	71-43-2	N.D.	0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	Total Xylenes	1330-20-7	2.2	1.5	1
ECY 97-602 NWTPH-Dx modified	**GC Extractable TPH w/Si Gel**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	390	300	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	700	1
	Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.				
SW-846 6020	**Metals**		ug/l	ug/l	
06035	Lead	7439-92-1	3.5	0.050	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	09183A94B	07/06/2009 23:00	Carrie E Miller	1
05879	BTEX	SW-846 8021B	1	09183A94B	07/06/2009 23:00	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	09183A94B	07/06/2009 23:00	Carrie E Miller	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	091940009A	07/14/2009 18:20	Diane V Do	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	2	091940009A	07/13/2009 15:05	Cody R Hanna	1
06035	Lead	SW-846 6020	1	091876050006A	07/13/2009 08:57	David K Beck	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	091876050006	07/08/2009 14:52	James L Mertz	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 5716077

Group No. 1152073
WA

MW-9 Grab Water Sample
Facility# 209335 Job# 386750
1225 N. 45th Street - Seattle, WA

Collected: 07/01/2009 11:50 by ML

Account Number: 11260

Submitted: 07/03/2009 09:00
Reported: 07/15/2009 at 10:52
Discard: 08/15/2009

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

45S09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
ECY 97-602 NWTPH-Dx modified	**GC Extractable TPH w/Si Gel**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	31	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	71	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
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	091940009A	07/14/2009 18:41	Diane V Do	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	2	091940009A	07/13/2009 15:05	Cody R Hanna	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 5716078

Group No. 1152073
WA

MW-10 Grab Water Sample
Facility# 209335 Job# 386750
1225 N. 45th Street - Seattle, WA

Collected: 07/01/2009 12:10 by ML

Account Number: 11260

Submitted: 07/03/2009 09:00
Reported: 07/15/2009 at 10:52
Discard: 08/15/2009

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

45S10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
ECY 97-602 NWTPH-Gx	**GC Volatiles**		**ug/l**	**ug/l**	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
SW-846 8021B	**GC Volatiles**		**ug/l**	**ug/l**	
05879	Benzene	71-43-2	N.D.	0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	Total Xylenes	1330-20-7	N.D.	1.5	1
ECY 97-602 NWTPH-Dx modified	**GC Extractable TPH w/Si Gel**		**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.	69	1
SW-846 6020	**Metals**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	10.9	0.050	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	09183A94B	07/06/2009 23:26	Carrie E Miller	1
05879	BTEX	SW-846 8021B	1	09183A94B	07/06/2009 23:26	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	09183A94B	07/06/2009 23:26	Carrie E Miller	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	091890004A	07/09/2009 13:36	Diane V Do	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	091890004A	07/08/2009 15:30	Timothy J Attenberger	1
06035	Lead	SW-846 6020	1	091876050006A	07/13/2009 08:58	David K Beck	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	091876050006	07/08/2009 14:52	James L Mertz	1

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Analysis Report

Quality Control Summary

Client Name: Chevron
Reported: 07/15/09 at 10:52 AM

Group Number: 1152073

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: 09183A94B	Sample number(s): 5716074-5716076,5716078							
Benzene	N.D.	0.5	ug/l	105	110	80-120	5	30
Ethylbenzene	N.D.	0.5	ug/l	105	110	80-120	5	30
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	109	100	75-135	9	30
Toluene	N.D.	0.5	ug/l	105	110	80-120	5	30
Total Xylenes	N.D.	1.5	ug/l	107	110	80-120	3	30
Batch number: 091890004A	Sample number(s): 5716078							
DRO C12-C24 w/Si Gel	65	30.	ug/l	78	68	61-106	14	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 091940009A	Sample number(s): 5716075-5716077							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	88		61-106		
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 091876050006A	Sample number(s): 5716075-5716076,5716078							
Lead	N.D.	0.050	ug/l	105		90-115		

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: 09183A94B	Sample number(s): 5716074-5716076,5716078 UNSPK: P713507								
Benzene	115	115	70-152	0	20				
Ethylbenzene	111	111	75-133	0	30				
NWTPH-Gx water C7-C12	118	118	48-140	0	30				
Toluene	115	115	78-129	0	30				
Total Xylenes	117	117	67-155	0	30				
Batch number: 091940009A	Sample number(s): 5716075-5716077 BKG: P720396								
DRO C12-C24 w/Si Gel						N.D.	N.D.	0 (1)	20
HRO C24-C40 w/Si Gel						N.D.	N.D.	0 (1)	20
Batch number: 091876050006A	Sample number(s): 5716075-5716076,5716078 UNSPK: 5716075 BKG: 5716075								
Lead	84	93	75-125	4	20	22.9	21.3	7	20

Surrogate Quality Control

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

Quality Control Summary

Client Name: Chevron
Reported: 07/15/09 at 10:52 AM

Group Number: 1152073

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
Batch number: 09183A94B

	Trifluorotoluene-P	Trifluorotoluene-F
5716074	98	95
5716075	99	86
5716076	99	86
5716078	99	86
Blank	99	86
LCS	100	94
LCSD	99	95
MS	100	96
MSD	100	96
Limits:	69-129	63-135

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 091890004A

	Orthoterphenyl
5716078	100
Blank	99
LCS	114
LCSD	97
Limits:	50-150

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 091940009A

	Orthoterphenyl
5716075	123
5716076	104
5716077	116
Blank	99
DUP	102
LCS	137
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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