



**The Benham Companies, LLC**  
A Wholly Owned Subsidiary

Seattle Housing Authority Market Plg  
Release ID: 583079 Lot  
Map; NW 2220 SIT 2.3.2  
Seattle  
(not enclosed)

November 30, 2010

Mr. Roger Nye  
Washington State Department of Ecology – Northwest Regional Office  
Toxics Cleanup Program  
3190 160<sup>th</sup> Ave Southeast  
Bellevue, WA 98008-5452



**Subject: First 2010 Semiannual Groundwater Monitoring Report  
Former Chevron Service Station No. 20-9335**  
1225 North 45<sup>th</sup> Street  
Seattle, Washington

Dear Mr. Nye:

The Benham Companies, LLC, an SAIC Company (SAIC-Benham), on behalf of Chevron Environmental Management Company (CEMC), prepared this letter summarizing the latest groundwater monitoring and sampling results from Former Chevron Service Station No. 20-9335 (the site) in Seattle, Washington. The second quarter 2010 groundwater monitoring and sampling event was conducted by Gettler-Ryan Inc. (Gettler-Ryan) on June 9, 2010.

Groundwater elevation and analytical data are presented along with field data sheets and a laboratory analytical report in the Gettler-Ryan groundwater monitoring and sampling report for the June 2010 event (Attachment A).

### FIELD ACTIVITIES

Depth-to-groundwater measurements were collected from all five monitoring wells at the site. Each monitoring well was also checked for the presence of separate-phase hydrocarbons (SPH). SPH were detected in monitoring well MW-7 and confirmed by bailer; SPH thickness was determined to be 1.17 feet.

At the time of this monitoring event, groundwater elevations ranged from 170.34 feet above mean sea level (MSL) in monitoring well MW-6 to 169.81 feet above MSL in monitoring well MW-10. Groundwater elevations increased an average of 0.15 foot since the previous monitoring event performed on December 11, 2009. Groundwater flow at the time of this event was toward the southeast at a gradient of approximately 0.02 to 0.01 feet per foot. Figure 1 of Attachment A depicts groundwater elevations, well locations, and groundwater flow direction.

*The Benham Companies, LLC, an SAIC Company*

18912 North Creek Parkway | Suite 101 / Bothell, WA 98011 / tel: (425) 485-5800 / fax: (425) 485-5566 | saic.com

Groundwater samples were collected from four of the five monitoring wells at the site and submitted to Lancaster Laboratories, Inc. in Pennsylvania for the following analyses:

- Gasoline-range hydrocarbons by Washington State Department of Ecology (WDOE) Method NWTPH-Gx;
- Diesel-range and heavy oil-range hydrocarbons by WDOE Method NWTPH-Dx with silica-gel cleanup;
- Benzene, toluene, ethylbenzene, and total xylenes by United States Environmental Protection Agency (USEPA) Method 8021; and
- Total lead by Method USEPA 6020.

### **ANALYTICAL RESULTS**

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

- Total Lead in monitoring wells MW-8 and MW-9; and
- Gasoline-range hydrocarbons in monitoring well MW-6.

Groundwater analytical results are summarized in Table 1 of Attachment A.

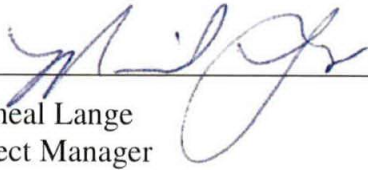
### **SUMMARY**

Groundwater elevations and flow direction were consistent with historical data from this site. SPH have not been bailed from MW-7 due to a lack of space for a product drum; therefore, it is not possible to determine if SPH thicknesses are increasing or decreasing. Small pockets of residual SPH and smear-zone soil contamination appear to still remain following the remedial excavation activities completed in 2005. Analytical results confirm the presence of petroleum constituents in the vicinity of wells MW-6, MW-7, and MW-8. Groundwater monitoring and sampling will continue to be performed on a semiannual basis, with the next sampling event planned for December 2010.

If you have any questions or comments about the information provided herein, please contact me at (425) 482-3319 or via email at [langem@saic.com](mailto:langem@saic.com).

Sincerely,

*The Benham Companies, LLC., an SAIC Company*

  
\_\_\_\_\_  
Micheal Lange  
Project Manager

Enclosures:

Attachment A: Gettler-Ryan Inc., Groundwater Monitoring and Sampling Report, Event of June 9, 2010, Former Chevron Service Station No. 20-9335, 1225 North 45<sup>th</sup> Street, Seattle, Washington

cc: Ms. Olivia Skance – CEMC  
6001 Bollinger Canyon Road, Suite 3636, San Ramon, CA 94583

Mr. Larry Hard, Seattle Housing Authority

Ms. Veronica Redstone, Housing Resources Group  
1651 Bellevue Avenue, Seattle, WA, 98122-2014

Project File

*PLEASE NOTE: In an effort to adopt practices that reduce negative impacts on the environment, SAIC-Benham is in the process of transitioning to an electronic distribution of all Groundwater Monitoring Reports. Please contact me at (425) 482-3319 or via email at [langem@saic.com](mailto:langem@saic.com) if you would be willing to accept an electronic copy of this report in lieu of a hard copy; in the absence of a response we will continue to provide you a hard copy.*

**Attachment A:**  
**Gettler-Ryan Inc. – Groundwater Monitoring and Sampling Report**  
**Event of June 9, 2010**  
**Former Chevron Service Station No. 20-9335**  
**1225 North 45<sup>th</sup> Street, Seattle, Washington**

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# GETTLER-RYAN INC.



## TRANSMITTAL

July 15, 2010  
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 45<sup>th</sup> Street  
Seattle, Washington**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
5	July 1, 2010	Groundwater Monitoring and Sampling Report Event of June 9, 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 Rd.,  
Room 3636, San Ramon, CA 94583

Mr. Roger Nye, Washington State Department of Ecology, Northwest Regional Office,  
Voluntary Cleanup Program, 3190 160<sup>th</sup> Avenue S.E., Bellevue, WA 98008-5452

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

trans/209335





# GETTLER - RYAN INC.



July 1, 2010  
Job #386750

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

**RE: Event of June 9, 2010**  
Groundwater Monitoring & Sampling Report  
Former Chevron Service Station #209335  
1225 North 45<sup>th</sup> 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 one 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 Figure 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. Hanson*  
- FOR -

Deanna L. Harding  
Project Coordinator

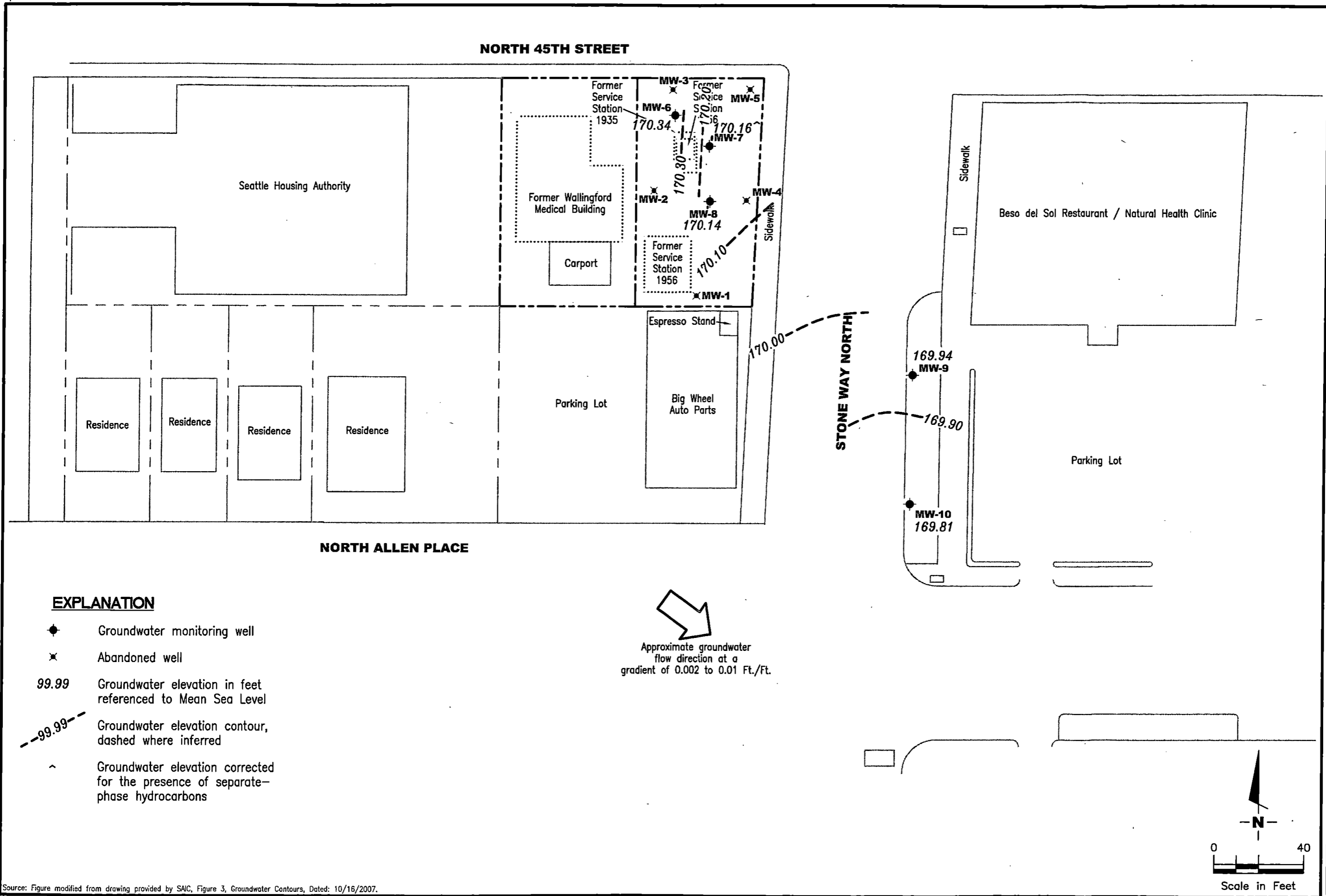
*Douglas J. Lee*

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




Douglas J. Lee

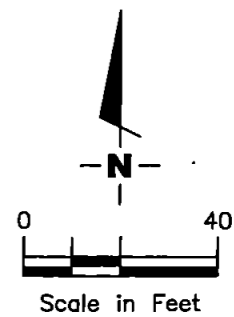
- Figure 1: Potentiometric Map
- Table 1: Groundwater Monitoring Data and Analytical Results
- Table 2: Separate Phase Hydrocarbon Thickness/Removal Data
- Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports



**EXPLANATION**

- ◆ Groundwater monitoring well
- ✕ Abandoned well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- - - 99.99 - - - Groundwater elevation contour, dashed where inferred
- ^ Groundwater elevation corrected for the presence of separate-phase hydrocarbons

  
 Approximate groundwater flow direction at a gradient of 0.002 to 0.01 Ft./Ft.



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

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

PROJECT NUMBER  
**386750**

REVIEWED BY  
 DATE  
 June 9, 2010

REVISED DATE

FILE NAME: N:\Drafting\Enviro\Chevron\209335\010-209335.dwg | Layout Tab: Pot2





# Explanation of Symbols and Abbreviations

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

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

## U.S. EPA CLP Data Qualifiers:

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

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

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

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

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## Quality Control Summary

Client Name: Chevron  
Reported: 06/24/10 at 05:45 PM

Group Number: 1198265

### 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 Water  
Batch number: 10165B53A

	Trifluorotoluene-P	Trifluorotoluene-F
6003084	83	79
6003085	82	77
6003086	84	78
6003087	84	78
6003088	85	77
Blank	83	77
LCS	85	83
LCSD	85	91
MS	84	89
MSD	85	
Limits:	58-146	63-135

Analysis Name: NWTPH-Dx water w/Si Gel  
Batch number: 101650022A  
Orthoterphenyl

6003085	86
6003086	110
Blank	114
LCS	131
MS	112
MSD	110
Limits:	50-150

Analysis Name: NWTPH-Dx water w/Si Gel  
Batch number: 101650026A  
Orthoterphenyl

6003087	112
6003088	115
Blank	108
LCS	127
LCSD	135
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.

## Quality Control Summary

 Client Name: Chevron  
 Reported: 06/24/10 at 05:45 PM

Group Number: 1198265

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: 10165B53A	Sample number(s): 6003084-6003088							
Benzene	N.D.	0.5	ug/l	105	105	80-120	0	30
Ethylbenzene	N.D.	0.5	ug/l	105	105	80-120	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	105	105	80-120	0	30
Total Xylenes	N.D.	1.5	ug/l	107	105	80-120	2	30
Batch number: 101650022A	Sample number(s): 6003085-6003086							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	94		50-100		
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 101650026A	Sample number(s): 6003087-6003088							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	89	96	50-100	8	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 101626050005A	Sample number(s): 6003085-6003088							
Lead	0.059	0.050	ug/l	98		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	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10165B53A	Sample number(s): 6003084-6003088 UNSPK: 6003088, P003710								
Benzene	110	110	80-152	0	20				
Ethylbenzene	110	105	80-133	5	30				
NWTPH-Gx water C7-C12	81		57-157						
Toluene	110	110	80-133	0	30				
Total Xylenes	108	108	80-148	0	30				
Batch number: 101650022A	Sample number(s): 6003085-6003086 UNSPK: P002527								
DRO C12-C24 w/Si Gel	110	136*	60-120	12	20				
Batch number: 101626050005A	Sample number(s): 6003085-6003088 UNSPK: P002531 BKG: P002531								
Lead	102	103	75-125	1	20	0.097	0.11	9 (1)	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.



# Analysis Report

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

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

LLI Sample # WW 6003088  
LLI Group # 1198265  
Account # 11260

Project Name: 209335

Collected: 06/09/2010 12:05 by ML Chevron  
6001 Bollinger Canyon Road  
Submitted: 06/10/2010 12:40 L4310  
Reported: 06/24/2010 17:45 San Ramon CA 94583  
Discard: 07/25/2010

45S10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC Volatiles</b>					
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx n.a.	ug/l N.D.	ug/l 50	1
<b>GC Volatiles</b>					
05879	Benzene	SW-846 8021B 71-43-2	ug/l N.D.	ug/l 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
<b>GC Extractable TPH w/Si Gel</b>					
02211	DRO C12-C24 w/Si Gel	ECY 97-602 NWTPH-Dx modified n.a.	ug/l 50	ug/l 30	1
02211	HRO C24-C40 w/Si Gel	n.a.	88	69	1
<b>Metals</b>					
06035	Lead	SW-846 6020 7439-92-1	ug/l 7.2	ug/l 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	10165B53A	06/15/2010 22:01	Katrina T Longenecker	1
05879	BTEX Water	SW-846 8021B	1	10165B53A	06/15/2010 22:01	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	10165B53A	06/15/2010 22:01	Katrina T Longenecker	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	101650026A	06/21/2010 23:40	Melissa McDermott	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	101650026A	06/15/2010 08:45	Kerrie A Freeburn	1
06035	Lead	SW-846 6020	1	101626050005A	06/24/2010 16:27	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	101626050005	06/14/2010 10:13	Denise K Connors	1



# Analysis Report

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

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

LLI Sample # WW 6003087  
 LLI Group # 1198265  
 Account # 11260

Project Name: 209335

Collected: 06/09/2010 11:40 by ML Chevron  
 6001 Bollinger Canyon Road  
 Submitted: 06/10/2010 12:40 L4310  
 Reported: 06/24/2010 17:45 San Ramon CA 94583  
 Discard: 07/25/2010

45S09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC Volatiles</b>					
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx n.a.	ug/l N.D.	ug/l 50	1
<b>GC Volatiles</b>					
05879	Benzene	SW-846 8021B 71-43-2	ug/l N.D.	ug/l 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
<b>GC Extractable TPH w/Si Gel</b>					
02211	DRO C12-C24 w/Si Gel	ECY 97-602 NWTPH-Dx modified n.a.	ug/l 42	ug/l 30	1
02211	HRO C24-C40 w/Si Gel	n.a.	110	69	1
<b>Metals</b>					
06035	Lead	SW-846 6020 7439-92-1	ug/l 21.2	ug/l 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	10165B53A	06/16/2010 01:15	Katrina T Longenecker	1
05879	BTEX Water	SW-846 8021B	1	10165B53A	06/16/2010 01:15	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	10165B53A	06/16/2010 01:15	Katrina T Longenecker	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	101650026A	06/21/2010 23:18	Melissa McDermott	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	101650026A	06/15/2010 08:45	Kerrie A Freeburn	1
06035	Lead	SW-846 6020	1	101626050005A	06/24/2010 16:25	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	101626050005	06/14/2010 10:13	Denise K Connors	1



# Analysis Report

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

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

LLI Sample # WW 6003086  
LLI Group # 1198265  
Account # 11260

Project Name: 209335

Collected: 06/09/2010 10:55 by ML

Chevron

6001 Bollinger Canyon Road

Submitted: 06/10/2010 12:40

L4310

Reported: 06/24/2010 17:45

San Ramon CA 94583

Discard: 07/25/2010

45S08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC Volatiles</b>					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	350	50	1
<b>GC Volatiles</b>					
	SW-846 8021B		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
<b>GC Extractable TPH w/Si Gel</b>					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	280	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	180	69	1
<b>Metals</b>					
	SW-846 6020		ug/l	ug/l	
06035	Lead	7439-92-1	16.5	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	10165B53A	06/16/2010 00:50	Katrina T Longenecker	1
05879	BTEX Water	SW-846 8021B	1	10165B53A	06/16/2010 00:50	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	10165B53A	06/16/2010 00:50	Katrina T Longenecker	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	101650022A	06/22/2010 15:40	Glorines Suarez-Rivera	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	101650022A	06/15/2010 08:00	Karen R Rettew	1
06035	Lead	SW-846 6020	1	101626050005A	06/24/2010 16:23	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	101626050005	06/14/2010 10:13	Denise K Connors	1



# Analysis Report

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

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

LLI Sample # WW 6003085  
LLI Group # 1198265  
Account # 11260

Project Name: 209335

Collected: 06/09/2010 10:35 by ML

Chevron

6001 Bollinger Canyon Road

Submitted: 06/10/2010 12:40

L4310

Reported: 06/24/2010 17:45

San Ramon CA 94583

Discard: 07/25/2010

45S06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles	ECY 97-602 NWTTPH-Gx		ug/l	ug/l	
08274	NWTTPH-Gx water C7-C12	n.a.	5,900	250	5
GC Volatiles	SW-846 8021B		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	350	1.5	1
GC Extractable TPH w/Si Gel	ECY 97-602 NWTTPH-Dx modified		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	360	150	5
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	340	5
Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.					
Metals	SW-846 6020		ug/l	ug/l	
06035	Lead	7439-92-1	13.2	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	NWTTPH-Gx water C7-C12	ECY 97-602 NWTTPH-Gx	1	10165B53A	06/16/2010 10:35	Katrina T Longenecker	5
05879	BTEX Water	SW-846 8021B	1	10165B53A	06/15/2010 23:38	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	10165B53A	06/15/2010 23:38	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	2	10165B53A	06/16/2010 10:35	Katrina T Longenecker	5
02211	NWTTPH-Dx water w/Si Gel	ECY 97-602 NWTTPH-Dx modified	1	101650022A	06/22/2010 17:02	Melissa McDermott	5
02135	Extraction - DRO Water Special	ECY 97-602 NWTTPH-Dx 06/97	1	101650022A	06/15/2010 08:00	Karen R Rettew	1
06035	Lead	SW-846 6020	1	101626050005A	06/24/2010 16:21	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	101626050005	06/14/2010 10:13	Denise K Connors	1



# Analysis Report

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

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

LLI Sample # WW 6003084  
LLI Group # 1198265  
Account # 11260

Project Name: 209335

Collected: 06/09/2010

Chevron

6001 Bollinger Canyon Road  
L4310

Submitted: 06/10/2010 12:40

San Ramon CA 94583

Reported: 06/24/2010 17:45

Discard: 07/25/2010

45SQA

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	
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	10165B53A	06/15/2010 20:00	Katrina T Longenecker	1
05879	BTEX Water	SW-846 8021B	1	10165B53A	06/15/2010 20:00	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	10165B53A	06/15/2010 20:00	Katrina T Longenecker	1





## ***Analysis Report***

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

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

Respectfully Submitted,

A handwritten signature in black ink that reads "Robert Strocko Jr." with a stylized flourish at the end.

**Robert Strocko Jr.**  
**Manager**



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-658-2300 Fax: 717-658-2661 • www.lancasterlabs.com

RECEIVED

ANALYTICAL RESULTS 25 2010

Prepared by:

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

Prepared for:

GETTLER-RYAN INC.  
GENERAL CONTRACTORS  
Chevron  
6001 Bollinger Canyon Road  
L4310  
San Ramon CA 94583

June 24, 2010

Project: 209335

Submittal Date: 06/10/2010  
Group Number: 1198265  
PO Number: 0015061199  
Release Number: SKANCE  
State of Sample Origin: WA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
QA Water Sample	6003084
MW-6 Grab Water Sample	6003085
MW-8 Grab Water Sample	6003086
MW-9 Grab Water Sample	6003087
MW-10 Grab Water Sample	6003088

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

# Chevron Northwest Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only  
 Acct. #: 11260 Sample #: 600308488 SCR#: \_\_\_\_\_

G# 1198265

Facility #: <u>SS#209335-OML G-R#386750</u> Site Address: <u>1225 N. 45th Street, SEATTLE, WA</u> Chevron PM: <u>OS</u> Lead Consultant: <u>SAICPC</u> Consultant/Office: <u>G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568</u> Consultant Prj. Mgr.: <u>Deanna L. Harding (deanna@grinc.com)</u> Consultant Phone #: <u>925-551-7555</u> Fax #: <u>925-551-7899</u> Sampler: <u>Mike Lombard</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____			<b>Matrix</b> <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Air <input type="checkbox"/> Soil <input type="checkbox"/> Oil		<b>Analyses Requested</b> Preservation Codes H <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> T <input type="checkbox"/> B <input type="checkbox"/> O BTEX+ 8021 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan <input type="checkbox"/> Oxygenates <input type="checkbox"/> MW TPH G <input checked="" type="checkbox"/> MW TPH D <input type="checkbox"/> Extended Rng. <input type="checkbox"/> Lead Total <input checked="" type="checkbox"/> Silica Gel Cleanup <input type="checkbox"/> Method <u>600</u> VPI/EPH <input type="checkbox"/> quantification <input type="checkbox"/>										<b>Preservative Codes</b> H = HCl      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input type="checkbox"/> Run ___ oxy s on all hits														
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX+	8021	8260	Naphth	Oxygenates	MW TPH G	MW TPH D	Extended Rng.	Silica Gel Cleanup	Lead Total	Method	VPI/EPH	quantification	H	N	S	T	B	O	
<u>QA</u>	<u>6-9-10</u>		<input checked="" type="checkbox"/>						<u>2</u>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>														
<u>MW-6</u>	<u>↓</u>	<u>1035</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>6</u>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>														
<u>MW-8</u>	<u>↓</u>	<u>1055</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>6</u>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>														
<u>MW-9</u>	<u>↓</u>	<u>1140</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>6</u>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>														
<u>MW-10</u>	<u>↓</u>	<u>1205</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>6</u>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>														
<b>Comments / Remarks</b>																													
<b>Turnaround Time Requested (TAT) (please circle)</b> (STD. TAT)      72 hour      48 hour 24 hour          4 day          5 day					Relinquished by: <u>[Signature]</u> Relinquished by: _____					Date: <u>6-9-10</u> Time: <u>1600</u>		Received by: _____ Received by: _____					Date: _____ Time: _____												
<b>Data Package Options (please circle if required)</b> <b>EDF/EDD</b> QC Summary      Type I - Full Type VI (Raw Data)      Disk / EDD WIP (RWQCB)      Standard Format Disk      _____ Other.					Relinquished by: _____ Relinquished by Commercial Carrier: UPS      (FedEx)      Other _____					Date: _____ Time: _____		Received by: <u>[Signature]</u> Received by: _____					Date: <u>6/9/10</u> Time: <u>1210</u>												
Temperature Upon Receipt <u>7.6-5.1</u> °C										Custody Seals Intact?      (Yes)      No																			



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #209335 Job Number: 386750  
 Site Address: 1225 N. 45Th Street Event Date: 6-9-10 (inclusive)  
 City: Seattle, WA Sampler: ML

Well ID MW-10  
 Well Diameter 2 in.  
 Total Depth 38.16 ft.  
 Depth to Water 37.48 ft.

Date Monitored: 6-9-10

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

Check if water column is less than 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: BUNNY  
 Sample Time/Date: 1205 16-9-10 Water Color: Clear Odor: Y10  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: none  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 37.48

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 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: 6-9-10 (inclusive)  
 City: Seattle, WA Sampler: ML

Well ID: MW-9  
 Well Diameter: 2 in.  
 Total Depth: 41.51 ft.  
 Depth to Water: 38.17 ft.

Date Monitored: 6-9-10

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

Check if water column is less than 0.50 ft.

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

### Purge Equipment:

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

### Sampling Equipment:

- Disposable Bailer \_\_\_\_\_ 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: Cloudy  
 Sample Time/Date: 1:40 / 6-9-10 Water Color: Clear Odor: Y10  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: None  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 38.17

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	3 x vva 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 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: 6-9-10 (inclusive)  
 City: Seattle, WA Sampler: ML

Well ID: MW-8  
 Well Diameter: 2 in.  
 Total Depth: 41.60 ft.  
 Depth to Water: 27.21 ft.

Date Monitored: 6-9-10

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

Check if water column is less than 0.50 ft.

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

### Purge Equipment:

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

### Sampling Equipment:

- Disposable Bailer
- Pressure Bailer
- 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: Rain  
 Sample Time/Date: 1055 6-9-10 Water Color: Clear Odor: Y10  
 Approx. Flow Rate:          gpm. Sediment Description: None  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 27.21

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: 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: 6-9-10 (inclusive)  
 City: Seattle, WA Sampler: ML

Well ID: MW-7  
 Well Diameter: 2 in.  
 Total Depth: 41.67 ft.  
 Depth to Water: 28.20 ft.

Date Monitored: 6-9-10

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

Check if water column is less than 0.50 ft.

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

### Purge Equipment:

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

### Sampling Equipment:

Disposable Bailer /  
 Pressure Bailer /  
 Discrete Bailer /  
 Peristaltic Pump /  
 QED Bladder Pump /  
 Other: /

Time Started:            (2400 hrs)  
 Time Completed:            (2400 hrs)  
 Depth to Product: 27.03 ft  
 Depth to Water: 28.20 ft  
 Hydrocarbon Thickness: 1.17 ft  
 Visual Confirmation/Description:  
GRAY  
 Skimmer / Absorbent 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, SPH

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: 6-9-10 (inclusive)  
 City: Seattle, WA Sampler: ML

Well ID: MW-6  
 Well Diameter: 2 in.  
 Total Depth: 38.37 ft.  
 Depth to Water: 26.84 ft.

Date Monitored: 6-9-10

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

Check if water column is less than 0.50 ft.

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

### Purge Equipment:

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

### Sampling Equipment:

Disposable Bailer 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): 8:00  
 Sample Time/Date: 1035 / 6-9-10 Weather Conditions: Rain  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Water Color: clear Odor: Y10  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Sediment Description: none  
 Volume: \_\_\_\_\_ gal. DTW @ Sampling: 26.84

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-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: NO PURGE SAMPLE TAKEN

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_



## 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.

**Table 2**  
**Separate Phase Hydrocarbon Thickness/Removal Data**  
Former Chevron Service Station #209335  
1225 North 45th Street  
Seattle, Washington

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**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.

- <sup>1</sup> 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.
- <sup>2</sup> Interface probe could not detect this type of LNAPL, unable to gauge hydrocarbon thickness. From visual confirmation estimate thickness to be approximately 2.25 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-4 (cont)	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	
	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						

**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-7	06/16/09	INACCESSIBLE	--	--	--	
	07/01/09	27.39	-- <sup>1</sup>	-- <sup>1</sup>	0.00	
	12/11/09	27.50	-- <sup>2</sup>	-- <sup>2</sup>	0.00	
	06/09/10	27.03	28.20	1.17	--	
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		

**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	DRO = Diesel Range Organics	T. Lead = Total Lead
DTP = Depth to Product	HRO = Heavy Range Organics	ND = Not Detected
DTW = Depth to Water	GRO = Gasoline Range Organics	NP = No Purge
GWE = Groundwater Elevation	B = Benzene	-- = Not Measured/Not Analyzed
SPH = Separate Phase Hydrocarbon	T = Toluene	QA = Quality Assurance/Trip Blank
SPHT = Separate Phase Hydrocarbon Thickness	E = Ethylbenzene	MTCA = Model Toxics Control Act Cleanup Regulations [WAC 173-340-720(2)(a)(I), as amended 02/01]
TPH = Total Petroleum Hydrocarbons	X = Xylenes	
	MTBE = Methyl Tertiary Butyl Ether	

- \* 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 LNAPL/Groundwater Interface, unable to gauge hydrocarbon thickness and calculate corrected GWE. From visual confirmation estimate thickness to be approximately 1.5 feet.
- 11 Interface probe could not detect LNAPL/Groundwater Interface, unable to gauge hydrocarbon thickness and calculate corrected GWE. From visual confirmation estimate thickness to be approximately 2.25 feet.
- 12 Laboratory report indicates due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.
- 13 Laboratory confirmed result.

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station # 209335  
1225 North 45th Street  
Seattle, Washington

WELL ID/ DATE	TOC* (fL)	DTP (fL)	DTW (fL)	SPHT (fL)	GWE (fL)	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)	T. Lead (µg/L)
<b>TW-5 (cont)</b>														
1/22/04	99.42	WELL DRY/OBSTRUCTED			--	--	--	--	--	--	--	--	--	--
1/04/05	99.42	WELL DRY/OBSTRUCTED			--	--	--	--	--	--	--	--	--	--
1/14/05	99.42	WELL DRY/OBSTRUCTED			--	--	--	--	--	--	--	--	--	--
<b>BANDONED</b>														
<b>RIP BLANK</b>														
2/16/00	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--
3/26/01	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--
6/25/01	--	--	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
9/24/01	--	--	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
2/13/01	--	--	--	--	--	--	--	<80.0	<0.500	<0.500	<0.500	<1.00	--	--
3/08/02	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	--
5/29/02	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	--
9/16/02	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	--
2/05/02	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	--
3/04/03	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	--
0/27/03	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
<b>1A</b>														
3/31/04	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
6/28/04	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
9/29/04	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
1/04/05	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
6/16/09	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
7/01/09	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
2/11/09	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
6/09/10	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--

	TPH-DRO	TPH-HRO	TPH-GRO	B	T	E	X	MTBE	D. Lead
<b>Standard Laboratory Reporting Limits:</b>	--	--	50	0.5	0.5	0.5	1.5	--	0.00100
<b>MTCA Method A Cleanup Levels:</b>	500	500	800/1,000	5	1,000	700	1,000	20	--
<b>Current Method:</b>	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

WELL ID/ DATE	TOC* (ft.)	BTP (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)	T. Lead (µg/L)
<b>MW-4 (cont)</b>														
11/22/04	98.52	--	36.81	0.00	61.71	--	--	--	--	--	--	--	--	--
11/04/05 NP	98.52	--	38.11	0.00	60.41	1,600 <sup>3</sup>	<250 <sup>3</sup>	1,600	10	13	60	110	--	--
11/14/05	98.52	--	37.58	0.00	60.94	--	--	--	--	--	--	--	--	--
ABANDONED														
<b>MW-5</b>														
10/11/00 <sup>1</sup>	99.42	--	34.50	--	64.92	--	--	--	--	--	--	--	--	--
12/16/00	99.42	--	37.18	0.00	62.24	5,080 <sup>3</sup>	ND <sup>3</sup>	146,000	ND <sup>2</sup>	15,100	4,160	24,100	ND <sup>2</sup>	0.0200 <sup>4</sup>
13/26/01	99.42	--	37.91	0.00	61.51	77,900 <sup>3,5</sup>	ND <sup>3</sup>	149,000	256	10,600	4,000	24,200	<sup>2</sup> ND/ND <sup>6</sup>	--
16/25/01	99.42	--	38.14	0.00	61.28	109,000 <sup>3</sup>	<18,100 <sup>3</sup>	127,000	210	9,580	3,730	21,500	--	--
19/24/01	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			--	--	--	--	--	--
13/08/02	99.42	37.96	38.46	0.50	61.36***	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--	--
15/29/02	99.42	37.60	38.05	0.45	61.73***	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--	--
18/07/02	99.42	37.73	38.12	0.39	61.61***	--	--	--	--	--	--	--	--	--
19/16/02	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			--	--	--	--	--	--
11/28/03	99.42	37.88	38.24	0.36	61.47***	--	--	--	--	--	--	--	--	--
12/13/03	99.42	38.33	38.68	0.35	61.02***	--	--	--	--	--	--	--	--	--
13/04/03	99.42	37.54	37.89	0.35	61.81***	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--	--
14/21/03	99.42	37.96	38.29	0.33	61.39***	--	--	--	--	--	--	--	--	--
15/08/03	99.42	38.50	38.82	0.32	60.86***	--	--	--	--	--	--	--	--	--
16/03/03	99.42	37.42	37.76	0.34	61.93***	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--	--
17/06/03	99.42	37.77	38.11	0.34	61.58***	--	--	--	--	--	--	--	--	--
18/18/03	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			--	--	--	--	--	--	--	--	--	--
12/09/04	99.42	WELL DRY/OBSTRUCTED			--	--	--	--	--	--	--	--	--	--
13/04/04	99.42	WELL DRY/OBSTRUCTED			--	--	--	--	--	--	--	--	--	--
13/31/04	99.42	WELL DRY/OBSTRUCTED			--	--	--	--	--	--	--	--	--	--
16/28/04	99.42	WELL DRY/OBSTRUCTED			--	--	--	--	--	--	--	--	--	--
19/11/04	99.42	WELL DRY/OBSTRUCTED			--	--	--	--	--	--	--	--	--	--
19/29/04	99.42	WELL DRY/OBSTRUCTED			--	--	--	--	--	--	--	--	--	--

**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)	T-Lead (µg/L)
<b>MW-3 (cont)</b>														
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 <sup>3</sup>	<250 <sup>3</sup>	<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 <sup>3</sup>	<250 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<1.5	--	--
03/31/04	NP 98.76	--	37.65	0.00	61.11	<800 <sup>3</sup>	<1,000 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<1.5	--	--
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 <sup>3</sup>	<250 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<1.5	--	--
01/04/05	98.76	--	38.19	0.00	60.57	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
ABANDONED														
<b>MW-4</b>														
10/11/00 <sup>1</sup>	98.52	--	35.00	--	63.52	--	--	--	--	--	--	--	--	--
12/16/00	98.52	--	36.35	0.00	62.17	ND <sup>2,3</sup>	ND <sup>2,3</sup>	58,200	326	5,520	1,430	8,520	ND <sup>2</sup>	0.0123 <sup>4</sup>
03/26/01	98.52	--	37.00	0.00	61.52	266 <sup>3,5</sup>	ND <sup>3</sup>	27,200	178	2,160	785	4,160	<sup>2</sup> ND/ND <sup>6</sup>	--
06/25/01	98.52	--	37.25	0.00	61.27	<250 <sup>3</sup>	<750 <sup>3</sup>	12,300	69.0	654	416	1,910	--	--
09/24/01	98.52	--	37.60	0.00	60.92	<250 <sup>3,8</sup>	<500 <sup>3,8</sup>	4,130	30.1	154	197	684	--	--
12/13/01	98.52	--	37.72	0.00	60.80	<250 <sup>3</sup>	<500 <sup>3</sup>	5,490	30.3	175	177	679	--	--
03/08/02	NP 98.52	--	38.36	0.00	60.16	<250 <sup>3</sup>	<750 <sup>3</sup>	9,000	<50	150	170	710	--	--
05/29/02	NP 98.52	--	36.86	0.00	61.66	<250 <sup>3</sup>	<750 <sup>3</sup>	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 <sup>3</sup>	<250 <sup>3</sup>	7,500	46	230	240	630	--	--
12/05/02	NP 98.52	--	37.53	0.00	60.99	<250 <sup>3</sup>	<250 <sup>3</sup>	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 <sup>3</sup>	<500 <sup>3</sup>	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 <sup>3</sup>	<250 <sup>3</sup>	3,900	14	96	110	340	--	--
06/28/04	NP 98.52	--	37.54	0.00	60.98	<250 <sup>3</sup>	<250 <sup>3</sup>	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 <sup>3</sup>	<250 <sup>3</sup>	1,500	18	40	76	170	--	--



**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)	T. Lead (µg/L)		
<b>MW-2 (cont)</b>																
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														
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**	--	--	--	--	--	--	--	--	--		
<b>ABANDONED</b>																
<b>MW-3</b>																
10/11/00 <sup>1</sup>	98.76	--	34.00	--	64.76	--	--	--	--	--	--	--	--	--		
12/16/00	98.76	--	36.39	0.00	62.37	ND <sup>3</sup>	ND <sup>3</sup>	ND	ND	0.612	ND	1.95	ND	ND <sup>4</sup>		
03/26/01	98.76	--	37.05	0.00	61.71	ND <sup>3</sup>	ND <sup>3</sup>	ND	ND	ND	ND	ND	ND	--		
06/25/01	98.76	--	37.29	0.00	61.47	<250 <sup>3</sup>	<750 <sup>3</sup>	<50.0	<0.500	<0.500	<0.500	<1.00	--	--		
09/24/01	98.76	--	37.64	0.00	61.12	<250 <sup>3,8</sup>	<500 <sup>3,8</sup>	<50.0	<0.500	<0.500	<0.500	<1.00	--	--		
12/13/01	98.76	--	37.78	0.00	60.98	<250 <sup>3</sup>	<500 <sup>3</sup>	<80.0	<0.500	<0.500	<0.500	<1.00	--	--		
03/08/02	NP	98.76	--	37.28	0.00	61.48	<250 <sup>3</sup>	<750 <sup>3</sup>	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 <sup>3</sup>	<250 <sup>3</sup>	<50	<0.50	<0.50	<0.50	<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)	T-Lead (µg/L)
<b>MW-10</b>														
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 <sup>3</sup>	<69 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<1.5	--	10.9
12/11/09	NP 207.29	--	35.91	0.00	171.38	49 <sup>3</sup>	<69 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<1.5	--	13.4
06/09/10	NP 207.29	--	37.48	0.00	169.81	50 <sup>3</sup>	88 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<1.5	--	7.2
<b>MW-1</b>														
10/11/00 <sup>1</sup>	97.95	--	34.50	--	63.45	--	--	--	--	--	--	--	--	--
12/16/00	97.95	--	35.91	0.00	62.04	ND <sup>2,3</sup>	ND <sup>2,3</sup>	74.4	ND	ND	ND	ND	ND	ND <sup>4</sup>
03/26/01	97.95	--	36.54	0.00	61.41	ND <sup>3</sup>	ND <sup>3</sup>	ND	ND	ND	ND	ND	ND	--
06/25/01	97.95	--	36.78	0.00	61.17	<281 <sup>3</sup>	<842 <sup>3</sup>	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
09/24/01	97.95	--	37.14	0.00	60.81	<250 <sup>3,8</sup>	<500 <sup>3,8</sup>	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
12/13/01	97.95	--	37.25	0.00	60.70	<250 <sup>3</sup>	<500 <sup>3</sup>	<80.0	<0.500	<0.500	<0.500	<1.00	--	--
03/08/02	NP 97.95	--	36.79	0.00	61.16	<250 <sup>3</sup>	<750 <sup>3</sup>	<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 <sup>3</sup>	<250 <sup>3</sup>	<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 <sup>3</sup>	<250 <sup>3</sup>	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 <sup>3</sup>	<1,000 <sup>3</sup>	<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														
<b>MW-2</b>														
10/11/00 <sup>1</sup>	98.70	--	34.50	--	64.20	--	--	--	--	--	--	--	--	--
12/16/00	98.70	--	36.46	0.00	62.24	1,000 <sup>3</sup>	ND <sup>3</sup>	28,100	283	2,560	693	4,020	ND <sup>2</sup>	0.00194 <sup>4</sup>
03/26/01	98.70	--	37.12	0.00	61.58	1,180 <sup>3,5</sup>	ND <sup>3</sup>	17,000	143	1,450	378	2,180	<sup>2</sup> ND/ND <sup>6</sup>	--
06/25/01	98.70	--	37.37	0.00	61.33	418 <sup>3,5</sup>	<750 <sup>3</sup>	11,700	92.3	547	181	1,010	--	--
09/24/01	98.70	--	37.72	0.00	60.98	4,840 <sup>3,7,8</sup>	<557 <sup>3,8</sup>	22,100	120	1,380	658	4,100	--	--
12/13/01	98.70	--	37.89	0.00	60.81	5,540 <sup>3,5</sup>	<500 <sup>3</sup>	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			--	--	--	--	--	--

**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)	T. Lead (µg/L)
<b>MW-6</b>														
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 <sup>3</sup>	<70 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<1.5	--	--
12/11/09	NP 197.18	--	27.55	0.00	169.63	35 <sup>3</sup>	<69 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<1.5	--	22.9
06/09/10	NP 197.18	--	26.84	0.00	170.34	360 <sup>3</sup>	<340 <sup>3,12</sup>	5,900 <sup>13</sup>	<0.5	<0.5	<0.5	350 <sup>13</sup>	--	0.76
														13.2
<b>MW-7</b>														
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 <sup>9</sup>	197.42	27.39	-- <sup>10</sup>	-- <sup>10</sup>	-- <sup>10</sup>	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--
12/11/09 <sup>9</sup>	197.42	27.50	-- <sup>11</sup>	-- <sup>11</sup>	-- <sup>11</sup>	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--
06/09/10 <sup>9</sup>	197.42	27.03	28.20	1.17	170.16**	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--
<b>MW-8</b>														
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 <sup>3</sup>	<700 <sup>3</sup>	430	<0.5	<0.5	<0.5	2.2	--	3.5
12/11/09	NP 197.35	--	27.91	0.00	169.44	300 <sup>3</sup>	<69 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<1.5	--	7.3
06/09/10	NP 197.35	--	27.21	0.00	170.14	280 <sup>3</sup>	180 <sup>3</sup>	350	<0.5	<0.5	<0.5	<1.5	--	16.5
<b>MW-9</b>														
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	--	--
07/01/09	NP 208.11	--	38.03	0.00	170.08	<31 <sup>3</sup>	<71 <sup>3</sup>	--	--	--	--	--	--	19.3
12/11/09	NP 208.11	--	38.86	0.00	169.25	76 <sup>3</sup>	<69 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<1.5	--	--
06/09/10	NP 208.11	--	38.17	0.00	169.94	42 <sup>3</sup>	110 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<1.5	--	21.2