



GETTLER - RYAN INC.

November 5, 2007
Job #387100

Mr. Brett Hunter
Chevron Environmental Management Company
P.O. Box 6012, Room K2252
San Ramon, CA 94583

RE: Event of October 3, 2007
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #305192
9816 271st Street Northwest
Stanwood, Washington

Dear Mr. Hunter:

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

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

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

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

Sincerely,

- FOR -

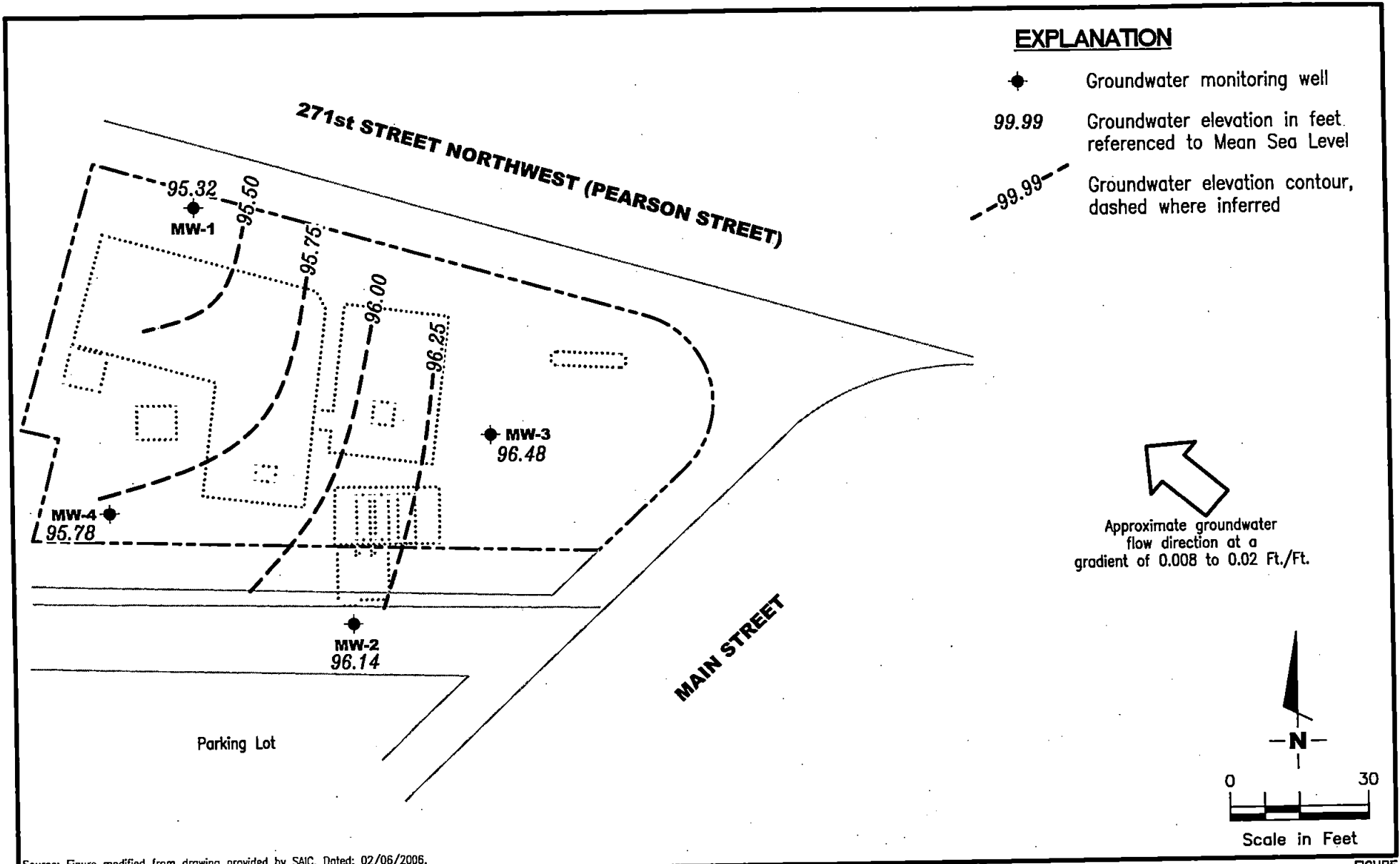
Deanna L. Harding
Project Coordinator

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: Groundwater Analytical Results
Table 3: Field Measurements
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



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

GETTLER - RYAN INC.
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POTENTIOMETRIC MAP
 Former Chevron Service Station #305192
 9816 271st Street Northwest
 Stanwood, Washington

FIGURE
1

PROJECT NUMBER
387100

REVIEWED BY

DATE
 October 3, 2007

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
 Former Chevron Service Station #305192
 9816 271st Street Northwest
 Stanwood, Washington

WELL ID/ DATE	TOC* (%)	DTW (ft)	GWE (ft)	TPH-D (ppb)	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	D-LEAD (ppb)
MW-1												
04/10/06	98.32	1.81	96.51	--	--	<240	<2.5	--	--	--	--	--
05/03/06	98.32	--	--	310 ¹	120 ¹	<240	<2.5	<2.5	4.7	11	<13	<0.87
08/02/06	98.32	2.96	95.36	260 ¹	330 ¹	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
10/10/06	98.32	2.55	95.77	150 ¹	<100 ¹	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/15/07	98.32	1.64	96.68	<160 ¹	<200 ¹	<240	<2.5	<2.5	<2.5	<7.5	<13	--
04/25/07	98.32	1.58	96.74	190 ¹	130 ¹	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
07/15/07	98.32	2.58	95.74	<81 ¹	<100 ¹	<500	<5.0	<5.0	<5.0	<15	<25	--
10/03/07	98.32	3.00	95.32	130 ¹	<100 ¹	<250	<2.5	<2.5	<2.5	<7.5	<13	--
MW-2												
04/10/06	99.58	2.29	97.29	--	--	--	--	--	--	--	--	--
05/03/06	99.58	--	--	1,400 ¹	560 ¹	<240	13	<2.5	<2.5	<7.5	<13	<0.87
08/02/06	99.58	2.98	96.60	2,000 ¹	1,800 ¹	220	20	<0.5	<0.5	1.6	<2.5	--
10/10/06	99.58	3.64	95.94	1,400 ¹	790 ¹	<240	16	<2.5	<2.5	<7.5	<13	--
01/15/07	99.58	2.08	97.50	810 ¹	270 ¹	<240	9.3	<2.5	<2.5	<7.5	<13	--
04/25/07	99.58	2.16	97.42	830 ¹	480 ¹	250	13	<0.5	<0.5	<1.5	<2.5	--
07/15/07	99.58	2.95	96.63	7,800 ^{1,3}	<1,000 ^{1,3}	<500	13	<5.0	<5.0	<15	<25	--
10/03/07	99.58	3.44	96.14	1,600 ¹	1,100 ¹	<250	4.9	<2.5	<2.5	<7.5	<13	--
MW-3												
04/10/06	99.16	0.40	98.76	--	--	--	--	--	--	--	--	--
05/03/06	99.16	--	--	580 ¹	240 ¹	<240	<2.5	<2.5	<2.5	<7.5	<13	<0.87
08/02/06	99.16	2.61	96.55	350 ¹	380 ¹	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
10/10/06	99.16	2.75	96.41	310 ¹	140 ¹	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/15/07	99.16	0.50	98.66	250 ¹	<100 ¹	<240	<2.5	<2.5	<2.5	<7.5	<13	--
04/25/07	99.16	0.84	98.32	260 ¹	110 ¹	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
07/15/07	99.16	2.16	97.00	250 ¹	150 ¹	<500	<5.0	<5.0	<5.0	<15	<25	--
10/03/07	99.16	2.68	96.48	330 ¹	260 ¹	<250	<2.5	<2.5	<2.5	<7.5	<13	--
MW-4												
04/10/06	100.00	2.08	97.92	--	--	--	--	--	--	--	--	--
05/03/06	100.00	--	--	7,900 ¹	<1,000 ¹	<240	<2.5	<2.5	<2.5	<7.5	<13	<0.87

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #305192
9816 271st Street Northwest
Stanwood, Washington

WELL ID/ DATE	TOC ^a (ft.)	DTW (ft.)	GWE (ft.)	TPH-D (ppb)	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	D. LEAD (ppb)
MW-4 (cont)												
08/02/06 PER	100.00	3.57	96.43	7,300 ¹	<1,000 ¹	73	<0.5	<0.5	<0.5	2.8	<2.5	--
10/10/06 ² PER	100.00	4.28	95.72	7,900 ¹	2,200 ¹	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/15/07 ² PER	100.00	2.98	97.02	8,300 ¹	3,000 ¹	<240	<2.5	<2.5	<2.5	<7.5	<13	--
04/25/07 ² PER	100.00	4.35	95.65	9,300 ¹	2,000 ¹	89	<0.5	<0.5	<0.5	<1.5	<2.5	--
07/15/07 PER	100.00	4.06	95.94	850 ^{1,3}	320 ^{1,3}	<500	<5.0	<5.0	<5.0	<15	<25	--
10/03/07 PER	100.00	4.22	95.78	8,500 ¹	<2,100 ¹	<250	<2.5	<2.5	<2.5	<7.5	<13	--

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05/03/06	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/02/06	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
10/10/06	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/15/07	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
04/25/07	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
07/15/07	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
10/03/07	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--

	TPH-D	TPH-O	TPH-G	B	T	E	X	MTBE	D. LEAD
Standard Laboratory Reporting Limits:	250	250	48	0.5	0.5	0.5	1.5	2.5	0.001
MTCA Method A Cleanup Levels:	500	500	800/1,000	5	1,000	700	1,000	20	--
Current Method:	NWTPH-D + Extended			NWTPH-G and EPA 8021B					EPA 7421

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #305192
9816 271st Street Northwest
Stanwood, Washington

EXPLANATIONS:

TOC = Top of Casing

(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-O = Total Petroleum Hydrocarbons as Oil

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

D. LEAD = Dissolved Lead

(ppb) = Parts per billion

-- = Not Measured/Not Analyzed

PER = Peristaltic Pump used for Purging

QA = Quality Assurance/Trip Blank

MTCA = Model Toxics Control Act Cleanup Regulations

[WAC 173-340-720(2)(a)(I), as amended 02/01].

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

¹ TPH-D and TPH-O with silica gel cleanup.

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

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

Table 2
Groundwater Analytical Results
Former Chevron Service Station #305192
9816 271st Street Northwest
Stanwood, Washington

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

EXPLANATIONS:

TBA = Tertiary butyl alcohol
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
(ppb) = Parts per billion

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 3
Field Measurements
Former Chevron Service Station #305192
9816 271st Street Northwest
Stanwood, Washington

WELL ID	DATE	Time (2400 hr.)	pH	Conductivity (μ mhos/cm)	Temperature ($^{\circ}$ C/ $^{\circ}$ F $^{\circ}$)	Turbidity (NTU)
MW-1	08/02/06	1055	6.72	401	15.4/--	93
	01/15/07	1140	6.79	412	12.0/--	--
		1144	6.72	408	11.8/--	--
		1149	6.68	403	11.7/--	--
		1259	6.39	752	13.5/--	--
	07/15/07	1542	6.31	589	17.8/--	--
	10/03/07	1204	6.46	436	15.7/--	--
		1208	6.42	430	15.6/--	--
		1214	6.39	426	15.5/--	--
MW-2	08/02/06	1017	6.49	430	15.2/--	371
		1025	6.47	421	15.1/--	78
	01/15/07	1106	6.82	404	11.8/--	--
		1111	6.76	398	11.7/--	--
		1116	6.75	393	11.6/--	--
		1158	6.60	856	12.8/--	--
	07/15/07	1442	6.56	572	17.5/--	--
	10/03/07	1349	6.46	429	15.8/--	--
		1355	6.37	426	15.7/--	--
		1401	6.36	421	15.7/--	--
MW-3	08/02/06	957	6.56	412	15.5/--	83
	01/15/07	1041	6.70	407	11.9/--	--
		1046	6.65	401	11.8/--	--
		1051	6.62	397	11.7/--	--
		1227	6.52	1266	12.3/--	--
	07/15/07	1512	6.58	687	17.7/--	--
	10/03/07	1314	6.37	456	15.9/--	--
		1319	6.32	451	15.7/--	--
		1323	6.31	446	15.7/--	--
	MW-4	08/02/06	920	6.76	433	15.6/--
926			6.73	429	15.5/--	72
01/15/07		958	6.77	402	11.9/--	--
		1002	6.70	394	11.8/--	--
		1007	6.63	391	11.7/--	--
		1337	7.38	620	12.8/--	--
07/15/07		1617	6.20	593	14.9/--	--
10/03/07		1240	6.52	426	15.9/--	--
		1246	6.48	422	15.6/--	--

EXPLANATIONS:

pH = Potential Hydrogen Ions
(μ mhos/cm) = Micromhos per cubic centimeter
($^{\circ}$ C/ $^{\circ}$ F $^{\circ}$) = Degrees Celsius/ Fahrenheit
(NTU) = Nephelometric Turbidity Unit
-- = Not Measured

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

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, temperature, pH and electrical conductivity are measured. If purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. The measurements are taken a minimum of three times during the purging. Purging continues until these parameters stabilize. Purge water is treated by filtering the water through granular activated carbon and is subsequently discharged to the ground surface at the site.

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 for all samples. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. 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. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #305192 Job Number: 386515
 Site Address: 9816 271st Street Event Date: 10-3-07 (inclusive)
 City: Stanwood, WA Sampler: Ben W. Newton

Well ID: MW-1 Date Monitored: 10-3-07 Well Condition: Replaced Lock

Well Diameter: 1.5 in.
 Total Depth: 14.14 ft.
 Depth to Water: 3.00 ft.
11.14 x VF: .092 = 1 x3 case volume = Estimated Purge Volume: 3 gal.

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.

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

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: Peristaltic

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

Start Time (purge): 1159 Weather Conditions: cloudy
 Sample Time/Date: 1217/10-3 Water Color: clear Odor: no
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? no If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1204</u>	<u>1</u>	<u>6.46</u>	<u>436</u>	<u>15.7</u>		
<u>1208</u>	<u>2</u>	<u>6.42</u>	<u>430</u>	<u>15.6</u>		
<u>1214</u>	<u>3</u>	<u>6.39</u>	<u>426</u>	<u>15.5</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Gx(8015)/BTEX/MTBE(8021)</u>
	<u>2</u> x 1 liter ambers	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Dx w/sgc(8015)</u>

COMMENTS: _____
 Add/Replaced Lock: X Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #305192
 Site Address: 9816 271st Street
 City: Stanwood, WA

Job Number: 386515
 Event Date: 10-3-07 (inclusive)
 Sampler: Brian W. Newham

Well ID: MW-2
 Well Diameter: 1.5 in.
 Total Depth: 14.21 ft.
 Depth to Water: 3.44 ft.

Date Monitored: 10-3-07 Well Condition: OK

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

$10.77 \times VF .092 = 1$ x3 case volume= Estimated Purge Volume: 3 gal.

Check if water column is less than 0.50 ft.

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: Peristaltic

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: Peristaltic

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

Start Time (purge): 1343 Weather Conditions: Cloudy
 Sample Time/Date: 1405/10-3 Water Color: clear Odor: no
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? no If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1349</u>	<u>1</u>	<u>6.40</u>	<u>429</u>	<u>15.3</u>		
<u>1355</u>	<u>2</u>	<u>6.37</u>	<u>426</u>	<u>15.7</u>		
<u>1401</u>	<u>3</u>	<u>6.36</u>	<u>421</u>	<u>15.7</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	3 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx(8015)/BTEX/MTBE(8021)
↓	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc(8015)

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #305192
 Site Address: 9816 271st Street
 City: Stanwood, WA

Job Number: 386515
 Event Date: 10-3-07 (inclusive)
 Sampler: BEN NEWTON

Well ID: MW-3
 Well Diameter: 1.5 in.
 Total Depth: 13.65 ft.
 Depth to Water: 2.68 ft.

Date Monitored: 10-3-07

Well Condition: ~~LED~~ BROKEN

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

10.97 xVF .092 = 1 x3 case volume= Estimated Purge Volume: 3 gal.
 Check if water column is less than 0.50 ft.

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: Peristaltic

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: Peristaltic

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

Start Time (purge): 1310 Weather Conditions: Cloudy
 Sample Time/Date: 1329 / 10-3 Water Color: clear Odor: no
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? no If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1314</u>	<u>1</u>	<u>6.37</u>	<u>456</u>	<u>15.9</u>		
<u>1319</u>	<u>2</u>	<u>6.32</u>	<u>451</u>	<u>15.7</u>		
<u>1323</u>	<u>3</u>	<u>6.31</u>	<u>446</u>	<u>15.7</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Gx(8015)/BTEX/MTBE(8021)</u>
	<u>2</u> x 1 liter ambers	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Dx w/sgc(8015)</u>

COMMENTS: Lid broken pictures sent to Deanna + Bob H 10-3-07

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #305192 Job Number: 386515
 Site Address: 9816 271st Street Event Date: 10-3-07 (inclusive)
 City: Stanwood, WA Sampler: Bau W. Newton

Well ID: MW-4 Date Monitored: 10-3-07 Well Condition: Replaced lock
 Well Diameter: 1.5 in.
 Total Depth: 13.78 ft.
 Depth to Water: 4.22 ft.
 Volume Factor (VF): 9.56 x VF .092 = .88 x3 case volume = Estimated Purge Volume: 2.5 gal.
 Check if water column is less than 0.50 ft.

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

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

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: Peristaltic

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

Start Time (purge): 1235 Weather Conditions: Cloudy
 Sample Time/Date: 1254 / 10-3 Water Color: clear Odor: no
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? no If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1240</u>	<u>1</u>	<u>6.52</u>	<u>426</u>	<u>15.9</u>		
<u>1246</u>	<u>2.5</u>	<u>6.48</u>	<u>422</u>	<u>15.6</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Gx(8015)/BTEX/MTBE(8021)</u>
<u>*</u>	<u>2</u> x 1 liter ambers	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Dx w/sgc(8015)</u>

COMMENTS: _____
 Add/Replaced Lock: X Add/Replaced Plug: _____ Size: _____

Chevron Northwest Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only
 Acct. # 1260 Sample #: 5175710-14 SCR#: _____

Group# 1059392

Facility #: SS#305192-OML G-R#387100
 Site Address: 9816 271st Street NW, STANWOOD, WA
 Chevron PM: BH 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: Ben Newton
 Service Order #: _____ Non SAR:

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix			Total Number of Containers	Analyses Requested											
					Soil	Water	Oil		Preservation Codes											
					<input type="checkbox"/> Potable	<input type="checkbox"/> NPDES		<input checked="" type="checkbox"/> BTEX + MTBE	<input type="checkbox"/> 8260	<input type="checkbox"/> Napht	<input type="checkbox"/> TPH G	<input type="checkbox"/> TPH D	<input type="checkbox"/> Lead Total	<input type="checkbox"/> VPHEPH	<input type="checkbox"/> NWTPH HCl	<input type="checkbox"/> Quantification	<input type="checkbox"/> Diss.	<input type="checkbox"/> Method	<input type="checkbox"/> Extended Ring.	<input type="checkbox"/> Silica Gel Cleanup
								<input type="checkbox"/> 8260 full scan	<input type="checkbox"/> Oxygenates	<input checked="" type="checkbox"/> TPH G	<input checked="" type="checkbox"/> TPH D	<input type="checkbox"/> Lead Total	<input type="checkbox"/> VPHEPH	<input type="checkbox"/> NWTPH HCl	<input type="checkbox"/> Quantification	<input type="checkbox"/> Diss.	<input type="checkbox"/> Method	<input type="checkbox"/> Extended Ring.	<input type="checkbox"/> Silica Gel Cleanup	

Preservative Codes
 H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

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

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

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE	8260	8260 full scan	Oxygenates	TPH G	TPH D	Lead Total	VPHEPH	NWTPH HCl	Quantification	Diss.	Method	Extended Ring.	Silica Gel Cleanup	
<u>QA</u>	<u>10-3-07</u>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>2</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>										
<u>MW-1</u>		<u>1217</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>5</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<u>MW-2</u>		<u>1405</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>5</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<u>MW-3</u>		<u>1329</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>5</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<u>MW-4</u>		<u>1254</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>5</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									

Comments / Remarks

Turnaround Time Requested (TAT) (please circle) STD. TAT 72 hour 48 hour 24 hour 4 day 5 day	Relinquished by: <u>Ben Newton</u>	Date: <u>10-3-07</u>	Time: <u>1533</u>	Received by:	Date:	Time:
	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Data Package Options (please circle if required) EDF/EDD QC Summary Type I - Full Type VI (Raw Data) Disk / EDD WIP (RWQCB) Standard Format Disk Other:	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	Relinquished by Commercial Carrier: UPS <u>FedEx</u> Other: _____	Temperature Upon Receipt: <u>2° - 5.3° C Range</u>		Received by: <u>Roddy Binkley</u>	Date: <u>10-4-07</u>	Time: <u>0910</u>
Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						

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**SAMPLE GROUP**

The sample group for this submittal is 1059392. Samples arrived at the laboratory on Thursday, October 04, 2007. The PO# for this group is 0015014990 and the release number is HUNTER.

Client Description

QA Water Sample
MW-1 Grab Water Sample
MW-2 Grab Water Sample
MW-3 Grab Water Sample
MW-4 Grab Water Sample

Lancaster Labs Number

5175710
5175711
5175712
5175713
5175714

ELECTRONIC SAIC c/o Gettler-Ryan
COPY TO

Attn: Cheryl Hansen



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
Lynn M Frederiksen at (717) 656-2300

Respectfully Submitted,

A handwritten signature in cursive script that reads "Susan M. Goshert".

Susan M. Goshert
Group Leader



Analysis Report

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

Lancaster Laboratories Sample No. WW 5175710

QA Water Sample
Facility# 305192 Job# 387100
9816 271st St NW - Stanwood, WA
Collected: 10/03/2007

Account Number: 11260

Submitted: 10/04/2007 09:10
Reported: 10/16/2007 at 16:35
Discard: 11/16/2007

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

271QA
I SE w

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1

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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02159	BTEX, MTBE	SW-846 8021B	1	10/08/2007 13:59	K. Robert Caulfeild-James	1
08274	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	10/08/2007 13:59	K. Robert Caulfeild-James	1
01146	GC VOA Water Prep	SW-846 5030B	1	10/08/2007 13:59	K. Robert Caulfeild-James	1



Analysis Report

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

Lancaster Laboratories Sample No. WW 5175711

MW-1 Grab Water Sample
 Facility# 305192 Job# 387100
 9816 271st St NW, - Stanwood, WA
 Collected: 10/03/2007 12:17 by BN

Account Number: 11260

Submitted: 10/04/2007 09:10
 Reported: 10/16/2007 at 16:35
 Discard: 11/16/2007

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

271M1
 I 5E w

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	2.5	ug/l	5
02164	Toluene	108-88-3	N.D.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	N.D.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	N.D.	7.5	ug/l	5
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	13.	ug/l	5
Due to excessive foaming of the sample, normal reporting limits were not attained.						
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	130.	81.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	100.	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	250.	ug/l	5
Due to excessive foaming of the sample, normal reporting limits were not attained.						

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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02159	BTEX, MTBE	SW-846 8021B	1	10/08/2007 19:13	K. Robert Caulfeild-James	5
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	10/10/2007 01:26	Heather E Williams	1
08274	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	10/08/2007 19:13	K. Robert Caulfeild-James	5
01146	GC VOA Water Prep	SW-846 5030B	1	10/08/2007 19:13	K. Robert Caulfeild-James	5



Analysis Report

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Page 2 of 2

Lancaster Laboratories Sample No. WW 5175711

MW-1 Grab Water Sample
Facility# 305192 Job# 387100
9816 271st St NW - Stanwood, WA
Collected: 10/03/2007 12:17 by BN

Account Number: 11260

Submitted: 10/04/2007 09:10
Reported: 10/16/2007 at 16:35
Discard: 11/16/2007

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

271M1

02135 Extraction - DRO Water
Special

ECY 97-602 NWT PH-Dx
06/97

1 10/08/2007 08:15 Jason A Heisey

1

Lancaster Laboratories Sample No. WW 5175712

MW-2 Grab Water Sample
 Facility# 305192 Job# 387100
 9816 271st St NW - Stanwood, WA
 Collected: 10/03/2007 14:05 by BN

Account Number: 11260

Submitted: 10/04/2007 09:10
 Reported: 10/16/2007 at 16:35
 Discard: 11/16/2007

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

271M2
 I 5E w

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02159	BTEX, MTBE					
02161	Benzene	71-43-2	4.9	2.5	ug/l	5
02164	Toluene	108-88-3	N.D.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	N.D.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	N.D.	7.5	ug/l	5
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	13.	ug/l	5
	Due to excessive foaming of the sample, normal reporting limits were not attained.					
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	1,600.	80.	ug/l	1
02096	Heavy Range Organics	n.a.	1,100.	100.	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	250.	ug/l	5
	Due to excessive foaming of the sample, normal reporting limits were not attained.					

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#	Analysis Date and Time	Analyst	Dilution Factor
02159	BTEX, MTBE	SW-846 8021B	1	10/08/2007 19:34	K. Robert Caulfeild-James	5
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	10/10/2007 02:05	Heather E Williams	1
08274	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	10/08/2007 19:34	K. Robert Caulfeild-James	5
01146	GC VOA Water Prep	SW-846 5030B	1	10/08/2007 19:34	K. Robert Caulfeild-James	5



Analysis Report

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Page 2 of 2

Lancaster Laboratories Sample No. WW 5175712

MW-2 Grab Water Sample
Facility# 305192 Job# 387100
9816 271st St NW - Stanwood, WA
Collected: 10/03/2007 14:05 by BN

Submitted: 10/04/2007 09:10
Reported: 10/16/2007 at 16:35
Discard: 11/16/2007

Account Number: 11260

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

271M2
02135 Extraction - DRO Water
Special

ECY 97-602 NWT PH-Dx
06/97

1 10/08/2007 08:15 Jason A Heisey

1



Analysis Report

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Lancaster Laboratories Sample No. WW 5175713

MW-3 Grab Water Sample
Facility# 305192 Job# 387100
9816 271st St NW - Stanwood, WA
Collected: 10/03/2007 13:29 by BN

Account Number: 11260

Submitted: 10/04/2007 09:10
Reported: 10/16/2007 at 16:35
Discard: 11/16/2007

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

271M3
I SE w

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	2.5	ug/l	5
02164	Toluene	108-88-3	N.D.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	N.D.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	N.D.	7.5	ug/l	5
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	13.	ug/l	5
	Due to excessive foaming of the sample, normal reporting limits were not attained.					
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	330.	81.	ug/l	1
02096	Heavy Range Organics	n.a.	260.	100.	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	250.	ug/l	5
	Due to excessive foaming of the sample, normal reporting limits were not attained.					

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#	Analysis Date and Time	Analyst	Dilution Factor
02159	BTEX, MTBE	SW-846 8021B	1	10/08/2007 19:55	K. Robert Caulfeild-James	5
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	10/10/2007 02:44	Matthew E Barton	1
08274	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	10/08/2007 19:55	K. Robert Caulfeild-James	5
01146	GC VOA Water Prep	SW-846 5030B	1	10/08/2007 19:55	K. Robert Caulfeild-James	5



Lancaster
Laboratories

Analysis Report

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Page 2 of 2

Lancaster Laboratories Sample No. WW 5175713

MW-3 Grab Water Sample
Facility# 305192 Job# 387100
9816 271st St NW - Stanwood, WA
Collected: 10/03/2007 13:29 by BN

Account Number: 11260

Submitted: 10/04/2007 09:10
Reported: 10/16/2007 at 16:35
Discard: 11/16/2007

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

271M3									
02135	Extraction - DRO Water	ECY 97-602 NWTPH-Dx	1	10/08/2007 08:15	Jason A Heisey				1
	Special	06/97							



Analysis Report

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Lancaster Laboratories Sample No. WW 5175714

MW-4 Grab Water Sample
 Facility# 305192 Job# 387100
 9816 271st St NW - Stanwood, WA
 Collected: 10/03/2007 12:54 by BN

Account Number: 11260

Submitted: 10/04/2007 09:10
 Reported: 10/16/2007 at 16:35
 Discard: 11/16/2007

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

271M4
 I SE W

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	2.5	ug/l	5
02164	Toluene	108-88-3	N.D.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	N.D.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	N.D.	7.5	ug/l	5
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	13.	ug/l	5
Due to excessive foaming of the sample, normal reporting limits were not attained.						
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	8,500.	1,700.	ug/l	20
02096	Heavy Range Organics	n.a.	N.D.	2,100.	ug/l	20
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	250.	ug/l	5

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#	Analysis Date and Time	Analyst	Dilution Factor
02159	BTEX, MTBE	SW-846 8021B	1	10/08/2007 20:16	K. Robert Caulfeild-James	5
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	10/15/2007 15:57	Heather E Williams	20
08274	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	10/08/2007 20:16	K. Robert Caulfeild-James	5
01146	GC VOA Water Prep	SW-846 5030B	1	10/08/2007 20:16	K. Robert Caulfeild-James	5
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	10/08/2007 08:15	Jason A Heisey	1



Analysis Report

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Page 2 of 2

Lancaster Laboratories Sample No. WW 5175714

MW-4 Grab Water Sample
Facility# 305192 Job# 387100
9816 271st St NW - Stanwood, WA
Collected: 10/03/2007 12:54 by BN

Submitted: 10/04/2007 09:10
Reported: 10/16/2007 at 16:35
Discard: 11/16/2007

271M4

Account Number: 11260

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

Quality Control Summary

 Client Name: Chevron
 Reported: 10/16/07 at 04:35 PM

Group Number: 1059392

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: 072790020A	Sample number(s): 5175711-5175714							
Diesel Range Organics	N.D.	80.	ug/l	74		61-106		
Heavy Range Organics	N.D.	100.	ug/l					
Batch number: 07281A54A	Sample number(s): 5175710-5175714							
TPH by NWTPH-Gx waters	N.D.	50.	ug/l	87	87	75-135	0	30
Benzene	N.D.	0.5	ug/l	92	94	86-119	2	30
Toluene	N.D.	0.5	ug/l	100	102	82-119	2	30
Ethylbenzene	N.D.	0.5	ug/l	97	99	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	98	100	82-120	1	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	93	92	82-124	1	30

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: 072790020A	Sample number(s): 5175711-5175714 BKG: P175717								
Diesel Range Organics						2,400.	2,400.	0 (1)	20
Heavy Range Organics						1,300.	1,400.	7 (1)	20
Batch number: 07281A54A	Sample number(s): 5175710-5175714 UNSPK: P175700, P175702								
TPH by NWTPH-Gx waters	75		63-154						
Benzene	106		78-131						
Toluene	114		78-129						
Ethylbenzene	113		75-133						
Total Xylenes	113		84-131						
Methyl tert-Butyl Ether	98		70-134						

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: TPH by NWTPH-Dx(water) w/SiGel
 Batch number: 072790020A
 Orthoterphenyl

5175711	90
5175712	98

*- 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: 10/16/07 at 04:35 PM

Group Number: 1059392

Surrogate Quality Control

5175713 96
5175714 5*
Blank 92
DUP 91
LCS 99

Limits: 50-150

Analysis Name: BTEX, MTBE
Batch number: 07281A54A

	Trifluorotoluene-P	Trifluorotoluene-F
5175710	95	90
5175711	96	89
5175712	96	86
5175713	96	88
5175714	97	88
Blank	97	88
LCS	95	79
LCSD	96	79
MS	94	81

Limits: 69-129

63-135

*- 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 <u>limit of quantitation</u> , 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 quantitated 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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