



GETTLER - RYAN INC.

LUST + ~~STATION # 9723~~ SIT 2, 3.1
583079

TRANSMITTAL

April 23, 2001
G-R #: 386750

TO: Mr. Matt Miller
Delta Environmental Consultants, Inc.
1200-112th Avenue N. E., Suite C-146,
Bellevue, Washington 98004-3769



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

RE: **Chevron Service Station**
#20-9335
1225 North 45th Street
Seattle, Washington

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	April 18, 2001	Groundwater Monitoring and Sampling Report Event of March 26, 2001

COMMENTS:

This report is being sent for your review. Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **May 4, 2001**, at which time the final report will be distributed to the following:

- Mr. Brett Hunter, Chevron Products Company, P.O. Box 6004, San Ramon, CA 94583
- Mr. John Wietfeld, WDOE Northwest Region, 3190 160th Avenue S.E., Bellevue, WA 98008
- Mr. Larry Hard, Seattle Housing Authority, 120 Sixth Avenue North, Seattle, WA 98109-5003

Current Site Check List included.

RECEIVED
MAY 10 2001
DEPT OF ECOLOGY

Enclosure

trans/20-9335-BH



GETTLER - RYAN INC.

April 18, 2001
Job #386750

Mr. Brett Hunter
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

Re: **Event of March 26, 2001**
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #20-9335
1225 North 45th Street
Seattle, Washington

Dear Mr. Hunter:

This report documents the most recent 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 of the 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 as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). Purge water was treated by filtration through granular activated carbon and was subsequently discharged. The field data sheets for this event are attached. The samples were analyzed by North Creek Analytical, Inc. Analytical results are presented in Table 1 and a Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are attached.

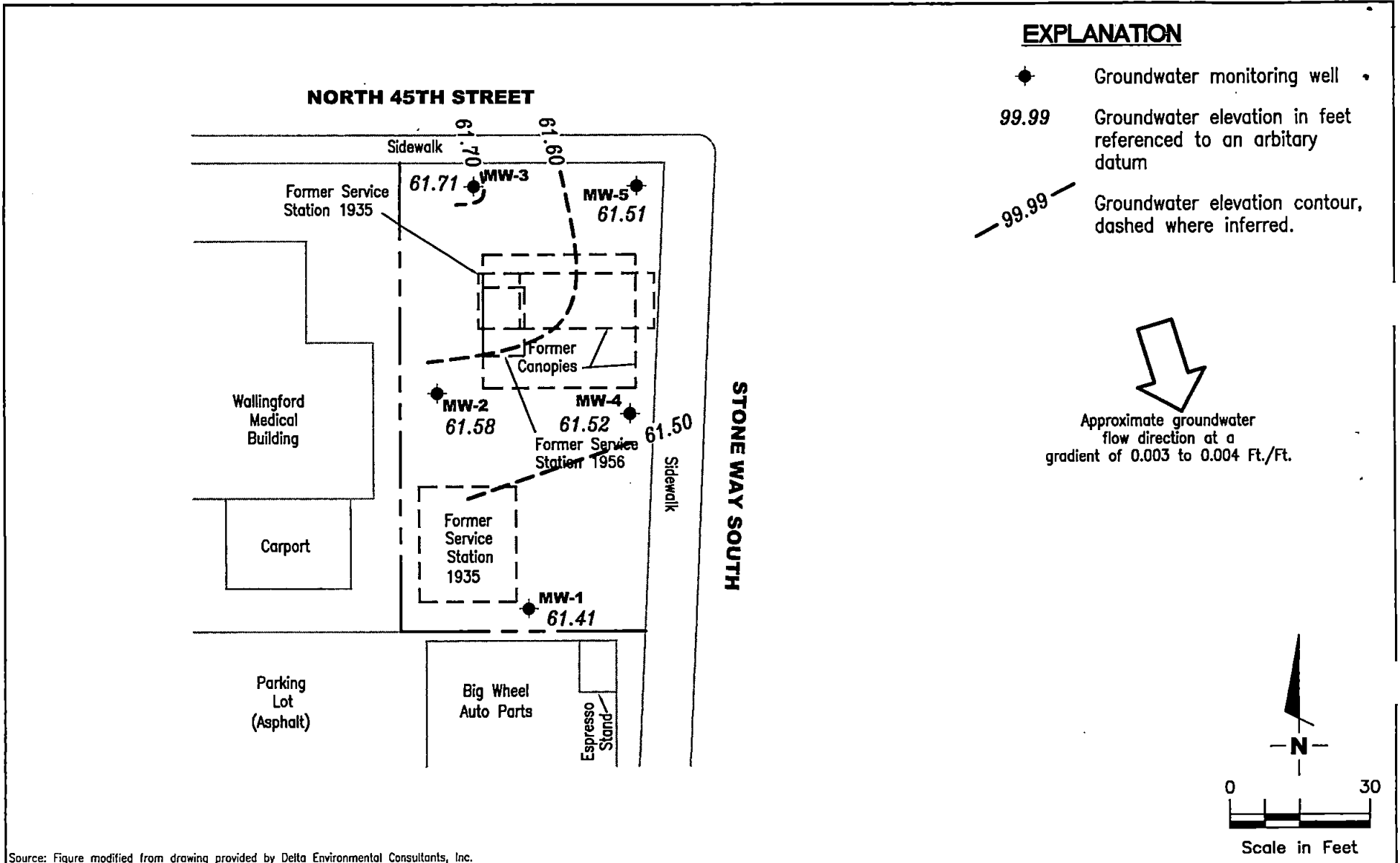
Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,

Deanna L. Harding
Project Coordinator

Hagop Kevork
Professional Engineer

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



Source: Figure modified from drawing provided by Delta Environmental Consultants, Inc.

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 6747 Sierra Ct., Suite J
 Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
 Former Chevron Service Station #20-9335
 1225 North 45th Street
 Seattle, Washington

FIGURE
1

PROJECT NUMBER
386750

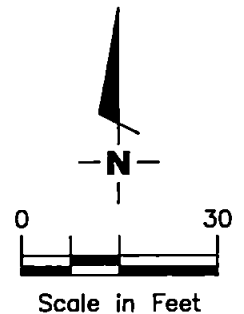
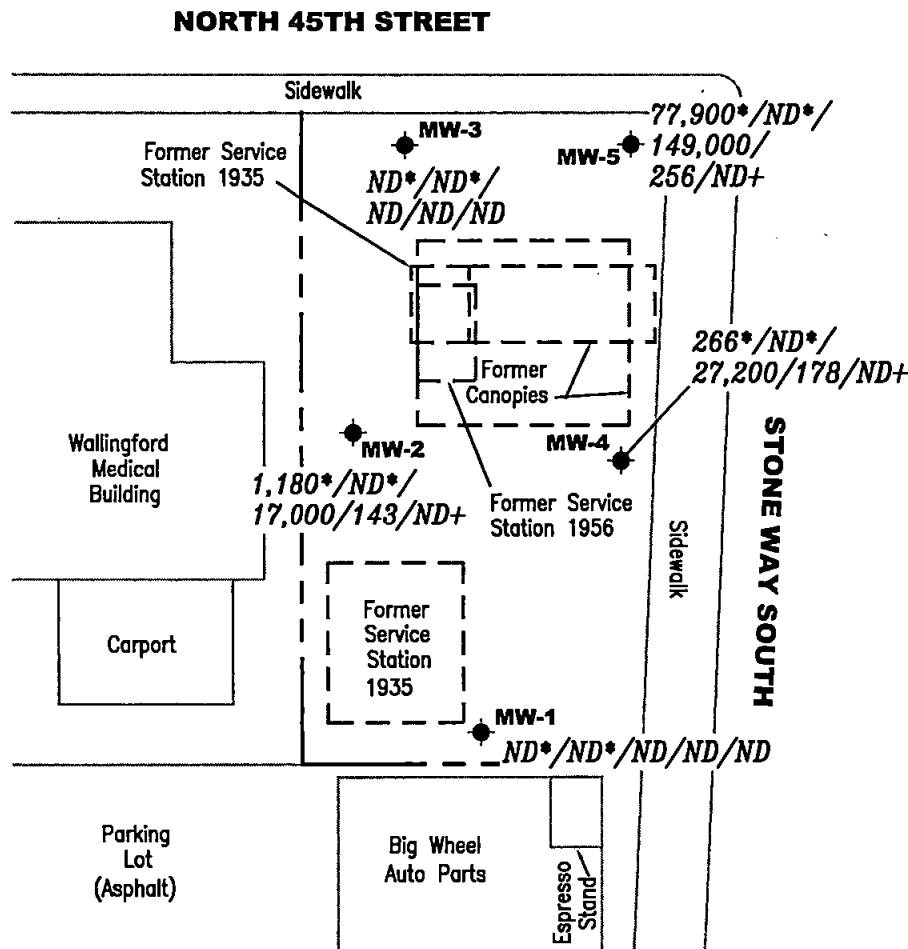
REVIEWED BY

DATE
 March 26, 2001

REVISED DATE

EXPLANATION

- ◆ Groundwater monitoring well
- A/B/C/
D/E Total Petroleum Hydrocarbons (TPH) as Diesel/TPH as Oil/TPH as Gasoline/Benzene/MTBE concentrations in ppb
- ND Not Detected
- * w/silica gel cleanup
- + MTBE by EPA Method 8260



Source: Figure modified from drawing provided by Delta Environmental Consultants, Inc.

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Dublin, CA 94568 (925) 551-7555

CONCENTRATION MAP
Former Chevron Service Station #20-9335
1225 North 45th Street
Seattle, Washington

FIGURE
2

PROJECT NUMBER
386750

REVIEWED BY

DATE
March 26, 2001

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station # 20-9335
1225 North 45th Street
Seattle, Washington

WELL ID/ TOC*(ft.)	DATE	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 (ppm)
MW-1												
97.95	10/11/00 ¹	34.50	63.45	--	--	--	--	--	--	--	--	--
	12/16/00	35.91	62.04	ND ^{2,3}	ND ^{2,3}	74.4	ND	ND	ND	ND	ND	ND ⁴
	03/26/01	36.54	61.41	ND³	ND³	ND	ND	ND	ND	ND	ND	--
MW-2												
98.70	10/11/00 ¹	34.50	64.20	--	--	--	--	--	--	--	--	--
	12/16/00	36.46	62.24	1,000 ³	ND ³	28,100	283	2,560	693	4,020	ND ²	0.00194 ⁴
	03/26/01	37.12	61.58	1,180^{3,5}	ND³	17,000	143	1,450	378	2,180	²ND/ND⁶	--
MW-3												
98.76	10/11/00 ¹	34.00	64.76	--	--	--	--	--	--	--	--	--
	12/16/00	36.39	62.37	ND ³	ND ³	ND	ND	0.612	ND	1.95	ND	ND ⁴
	03/26/01	37.05	61.71	ND³	ND³	ND	ND	ND	ND	ND	ND	--
MW-4												
98.52	10/11/00 ¹	35.00	63.52	--	--	--	--	--	--	--	--	--
	12/16/00	36.35	62.17	ND ^{2,3}	ND ^{2,3}	58,200	326	5,520	1,430	8,520	ND ²	0.0123 ⁴
	03/26/01	37.00	61.52	266^{3,5}	ND³	27,200	178	2,160	785	4,160	²ND/ND⁶	--
MW-5												
99.42	10/11/00 ¹	34.50	64.92	--	--	--	--	--	--	--	--	--
	12/16/00	37.18	62.24	5,080 ³	ND ³	146,000	ND ²	15,100	4,160	24,100	ND ²	0.0200 ⁴
	03/26/01	37.91	61.51	77,900^{3,5}	ND³	149,000	256	10,600	4,000	24,200	²ND/ND⁶	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station # 20-9335
1225 North 45th Street
Seattle, Washington

WELL ID/ TOC*(ft.)	DATE	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 (ppm)
-----------------------	------	--------------	--------------	----------------	----------------	----------------	------------	------------	------------	------------	---------------	------------------

Trip Blank

TB-LB	12/16/00	--	--	--	--	ND	ND	ND	ND	ND	ND	--
	03/26/01	--	--	--	--	ND	ND	ND	ND	ND	ND	--

	TPH-D	TPH-O	TPH-G	B	T	E	X	MTBE	D. Lead
Current Laboratory Reporting Limits:	250	750	50.0	0.500	0.500	0.500	1.00	1.00	0.00100
MTC A Method A Cleanup Levels:	1,000	1,000	1,000	5.0	40	30	20	--	--
Current Method:	WTPH-D + Extended		NWTPH-G and EPA 8021						EPA 6020

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station # 20-9335
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.

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

(ppm) = Parts per million

ND = Not Detected

-- = Not Measured/Not Analyzed

MTCA = Model Toxics Control Act Cleanup Regulations

[WAC 173-340-720(2)(a)(I), as amended 12/93].

* TOC elevations have been provided by Delta Environmental Consultants, Inc. referenced to an assumed datum in feet.

¹ Data provided by Delta Environmental Consultants, Inc.

² Detection limit raised. Refer to analytical reports.

³ TPH-D and TPH-O 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.

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, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured 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.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility: Farmer Chevron #209335 Job#: 386750
 Address: 1225 North 45th St Date: 3/26/01
 City: Seattle, WA Sampler: HAIG K.

Well ID: MW-1 Well Condition: GOOD
 Well Diameter: 2 in. Hydrocarbon Thickness: Ø (feet) Amount Bailed: Ø (Gallons)
 Total Depth: 42 ft. Volume Factor (VF):
 Depth to Water: 34.12 ft. $2" = 0.17$ $3" = 0.38$ $4" = 0.66$
 $6" = 1.50$ $12" = 5.80$

4.88 x VF 0.17 = 0.8 X 3 (case volume) = Estimated Purge Volume: 2.4 (gal.)

Purge Equipment: Disposable Bailer Sampling Equipment: Disposable Bailer
 Bailer Stack Suction Grundfos Other: _____
 Bailer Pressure Bailer Grab Sample Other: _____

Starting Time: 10:58 Weather Conditions: PARTLY CLOUDY
 Sampling Time: 11:30 Water Color: CLEAR Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: SILT
 Did well de-water? NO If yes: Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:01</u>	<u>1</u>	<u>7.56</u>	<u>261</u>	<u>14.5</u>			
<u>11:05</u>	<u>2</u>	<u>7.54</u>	<u>285</u>	<u>13.9</u>			
<u>11:08</u>	<u>2.5</u>	<u>7.49</u>	<u>293</u>	<u>14.0</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3 VOA'S</u>	<u>Y</u>	<u>HCL</u>	<u>NCA</u>	<u>GLATEX/MTBE</u>
	<u>1 AMBER</u>	<u>Y</u>	<u>NO</u>	<u>"</u>	<u>TPH-D ISRT</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/Facility: Farmer Chevron #209335 Job#: 386750
 Address: 1225 North 45th St Date: 3/26/01
 City: Seattle, WA Sampler: HAG K

Well ID: MW-2 Well Condition: GOOD
 Well Diameter: 2 in. Hydrocarbon Thickness: Ø (feet) Amount Bailed (Gallons): Ø
 Total Depth: 42.00 ft. Volume Factor (VF): 2" = 0.17, 3" = 0.38, 4" = 0.66
 Depth to Water: 37.12 ft. 6" = 1.50, 12" = 5.80

4.88 x VF 0.17 = 0.8 X 3 (case volume) = Estimated Purge Volume: 2.4 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 11:40 Weather Conditions: PARTLY CLOUDY
 Sampling Time: 12:10 Water Color: SILTY Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: SILT
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:43</u>	<u>1</u>	<u>7.49</u>	<u>346</u>	<u>14.4</u>			
<u>11:46</u>	<u>2</u>	<u>7.46</u>	<u>398</u>	<u>14.0</u>			
<u>11:49</u>	<u>2.5</u>	<u>7.42</u>	<u>385</u>	<u>14.3</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3 WALS</u>	<u>Y</u>	<u>HCL</u>	<u>NCA</u>	<u>GIBTEX/MTBE</u>
	<u>1 AMBEA</u>	<u>Y</u>	<u>NO</u>	<u>"</u>	<u>TPH-D EXP.</u>

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility: Farmer Chevron #209335 Job#: 386750
 Address: 1225 North 45th St Date: 3/26/01
 City: Seattle, WA Sampler: HAIG K

Well ID: MW-3 Well Condition: GOOD
 Well Diameter: 2 in. Hydrocarbon Thickness: Ø (feet) Amount Bailed (product/water): Ø (Gallons)
 Total Depth: 45.00 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water: 37.05 ft. 6" = 1.50 12" = 5.80

$7.95 \times VF_{0.17} = 1.3 \times 3 \text{ (case volume)} = \text{Estimated Purge Volume: } 3.9 \text{ (gal.)}$

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____
 Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 10:15 Weather Conditions: PARTLY CLOUDY
 Sampling Time: 10:45 Water Color: SILTY Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: SILT
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:19</u>	<u>1.5</u>	<u>7.75</u>	<u>329</u>	<u>15.3</u>			
<u>10:23</u>	<u>3</u>	<u>7.61</u>	<u>356</u>	<u>14.8</u>			
<u>10:26</u>	<u>4</u>	<u>7.64</u>	<u>372</u>	<u>14.6</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 VOA'S</u>	<u>Y</u>	<u>HCL</u>	<u>NCA</u>	<u>GIBTEX/MTBS</u>
	<u>1 AMBER</u>	<u>Y</u>	<u>NO</u>	<u>"</u>	<u>TPH-D EXT</u>

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility: Farmer Chevron #209335 Job#: 386750
 Address: 1225 North 45th St Date: 3/26/01
 City: Seattle, WA Sampler: HAIG R.

Well ID: MW-4 Well Condition: GOOD
 Well Diameter: 2 in. Hydrocarbon Thickness: (feet) Amount Bailed (Gallons):
 Total Depth: 42.00 ft. Volume Factor (VF): 2" = 0.17, 3" = 0.38, 4" = 0.66
 Depth to Water: 37.00 ft. 6" = 1.50, 12" = 5.80

$5.00 \times VF_{0.17} = 0.85 \times 3 \text{ (case volume)} = \text{Estimated Purge Volume: } 2.5 \text{ (gal.)}$

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____
 Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 12:23 Weather Conditions: PARTLY CLOUDY
 Sampling Time: 12:50 Water Color: CLEAR Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>12:26</u>	<u>1</u>	<u>7.26</u>	<u>420</u>	<u>15.2</u>			
<u>12:29</u>	<u>2</u>	<u>7.20</u>	<u>436</u>	<u>14.3</u>			
<u>12:32</u>	<u>2.5</u>	<u>7.23</u>	<u>448</u>	<u>14.5</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3 VOA'S</u>	<u>Y</u>	<u>HCL</u>	<u>NCA</u>	<u>GLBTX/MPX</u>
	<u>1 AMBER</u>	<u>Y</u>	<u>NO</u>	<u>''</u>	<u>TPH-D EXT.</u>

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # Farmer Chevron #209335 Job #: 386750
 Address: 1225 North 45th St Date: 3/26/01
 City: Seattle, WA Sampler: HAIG K

Well ID: MW-5 Well Condition: GOOD
 Well Diameter: 2 in. Hydrocarbon Thickness: Ø (feet) Amount Bailed (product/water): Ø (Gallons)
 Total Depth: 4200 ft. Volume Factor (VF):

2" = 0.17	3" = 0.38	4" = 0.66
6" = 1.50	12" = 5.80	

 Depth to Water: 3791 ft.

$4.09 \times \text{VF } 0.17 = 0.69 \times 3 \text{ (case volume)} = \text{Estimated Purge Volume: } \underline{2} \text{ (gal.)}$

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 13:10 Weather Conditions: PARTLY CLOUDY
 Sampling Time: 13:35 Water Color: SILTY Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: SILT
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}$	Temperature $^{\circ}\text{C}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>13:12</u>	<u>3/4</u>	<u>7.22</u>	<u>639</u>	<u>14.6</u>			
<u>13:15</u>	<u>1.5</u>	<u>7.13</u>	<u>658</u>	<u>14.7</u>			
<u>13:18</u>	<u>2</u>	<u>7.10</u>	<u>676</u>	<u>14.2</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>3 VOA'S</u>	<u>Y</u>	<u>HCL</u>	<u>NCA</u>	<u>GPBTEX/MTBE</u>
	<u>1 AMBER</u>	<u>Y</u>	<u>NO</u>	<u>"</u>	<u>TPH-D EXT</u>

COMMENTS: _____

ax copy of Lab Report and COC to Chevron Contact: No

CHAIN-01-CUSTODY-REPORT

Chevron Facility Number #20-9335
 Facility Address 1225 N. 45TH ST., SEATTLE, WA
 Consultant Project Number 386750
 Consultant Name Gattler-Ryan Inc
 Address 6747 Sierra Court, Suite G, Dublin, CA 94568
 Project Contact (Name) Deanna L. Harding
 (Phone) 925-551-7555 (Fax Number) 925-551-7899

Chevron Contact (Name) MR. BRETT HUNTER
 (Phone) 925-842-8695
 Laboratory Name North Creek Analytical
 Laboratory Service Order
 Laboratory Service Code
 Samples Collected by (Name) HAIG KEVORK
 Signature [Signature]

Chevron Products Co.
 P.O. BOX 6004
 In Ramon, CA 94583
 X (925)842-8370

State Method: CA OR WA NW Series CO UT

Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Sample Preservation	Date/Time	State Method: <input type="checkbox"/> CA <input type="checkbox"/> OR <input checked="" type="checkbox"/> WA <input type="checkbox"/> NW Series <input type="checkbox"/> CO <input type="checkbox"/> UT													Remarks		
					BTEX/MTBE+TPH GAS (8020 + 8015)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oxygenates (8260)	Purgeable Hydrocarbons (8010)	Purgeable Organics (8260)	Extractable Organics (8270)	Oil and Grease (5520)	Metals (ICAP or AA) Cd, Cr, Pb, Zn, Ni	BTEX (8020)	BTEX/MTBE/Naph. (8020)	TPH - HClD	TPH-D Extended w/ silicagel		Matrix by 8260	
B-LB	1	W	HCL	3/26/01	X														01	Run Mtb
1W-1	4	W	HCL	11:30 3/26	X														02	By 8260
1W-2	4	W		12:10 3/26	X														03	on ALL
1W-3	4	W		10:45 3/26	X														04	Other 8020
1W-4	4	W		12:50 3/26	X														05	HHS -
1W-5	4	W	✓	13:35 3/26	X														06	AT

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <input type="checkbox"/> As Contracted
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)	Organization	Date/Time 1830 3/26/01	Iced Y/N W/O 4.8	



Seattle 11720 First Avenue, Suite 400, Bothell, WA 98011-8244
 425.426.9200 fax 425.420.9210
 Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588

Gettler-Ryan Inc. - Dublin
 6747 Sierra Court Suite G
 Dublin CA, 94568

Project: Chevron #20-9335
 Project Number: 386750
 Project Manager: Deanna Harding

Reported:
 04/09/01 08:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	B1C0625-01	Water	03/26/01 12:00	03/26/01 18:30
MW-1	B1C0625-02	Water	03/26/01 11:30	03/26/01 18:30
MW-2	B1C0625-03	Water	03/26/01 12:10	03/26/01 18:30
MW-3	B1C0625-04	Water	03/26/01 10:45	03/26/01 18:30
MW-4	B1C0625-05	Water	03/26/01 12:50	03/26/01 18:30
MW-5	B1C0625-06	Water	03/26/01 13:35	03/26/01 18:30

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
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 Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588

Gettler-Ryan Inc. - Dublin
 6747 Sierra Court Suite G
 Dublin CA, 94568

Project: Chevron #20-9335
 Project Number: 386750
 Project Manager: Deanna Harding

Reported:
 04/09/01 08:34

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (B1C0625-01) Water Sampled: 03/26/01 12:00 Received: 03/26/01 18:30									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1C30012	03/30/01	03/30/01	WTPH-G/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	97.5 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	90.4 %	50-150			"	"	"	"	
MW-1 (B1C0625-02) Water Sampled: 03/26/01 11:30 Received: 03/26/01 18:30									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1C30012	03/30/01	03/30/01	WTPH-G/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	99.0 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	92.9 %	50-150			"	"	"	"	
MW-2 (B1C0625-03) Water Sampled: 03/26/01 12:10 Received: 03/26/01 18:30									
Gasoline Range Hydrocarbons	17000	2500	ug/l	50	1C30012	03/30/01	03/31/01	WTPH-G/8021B	
Benzene	143	25.0	"	"	"	"	"	"	
Toluene	1450	25.0	"	"	"	"	"	"	
Ethylbenzene	378	25.0	"	"	"	"	"	"	
Xylenes (total)	2180	50.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	50.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	96.7 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	95.6 %	50-150			"	"	"	"	

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 Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588

Gettler-Ryan Inc. - Dublin
 6747 Sierra Court Suite G
 Dublin CA, 94568

Project: Chevron #20-9335
 Project Number: 386750
 Project Manager: Deanna Harding

Reported:
 04/09/01 08:34

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (B1C0625-04) Water Sampled: 03/26/01 10:45 Received: 03/26/01 18:30									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1C30012	03/30/01	03/30/01	WTPH-G/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	99.6 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	93.3 %	50-150			"	"	"	"	
MW-4 (B1C0625-05) Water Sampled: 03/26/01 12:50 Received: 03/26/01 18:30									
Gasoline Range Hydrocarbons	27200	2500	ug/l	50	1C30012	03/30/01	03/30/01	WTPH-G/8021B	
Benzene	178	25.0	"	"	"	"	"	"	
Toluene	2160	25.0	"	"	"	"	"	"	
Ethylbenzene	785	25.0	"	"	"	"	"	"	
Xylenes (total)	4160	50.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	50.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	98.3 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	98.1 %	50-150			"	"	"	"	
MW-5 (B1C0625-06) Water Sampled: 03/26/01 13:35 Received: 03/26/01 18:30									
Gasoline Range Hydrocarbons	149000	25000	ug/l	500	1C30012	03/30/01	03/30/01	WTPH-G/8021B	
Benzene	256	250	"	"	"	"	"	"	
Toluene	10600	250	"	"	"	"	"	"	
Ethylbenzene	4000	250	"	"	"	"	"	"	
Xylenes (total)	24200	500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	500	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	96.9 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	96.0 %	50-150			"	"	"	"	

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 Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588

Gettler-Ryan Inc. - Dublin
 6747 Sierra Court Suite G
 Dublin CA, 94568

Project: Chevron #20-9335
 Project Number: 386750
 Project Manager: Deanna Harding

Reported:
 04/09/01 08:34

**Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C36 by WTPH-D (extended) with Silica Gel Clean-up
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (B1C0625-02) Water Sampled: 03/26/01 11:30 Received: 03/26/01 18:30									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	1C30008	03/30/01	04/02/01	WTPH-D	
Heavy Oil Range Hydrocarbons	ND	0.750	"	"	"	"	"	"	
Surrogate: 2-FBP	60.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	64.4 %	50-150			"	"	"	"	
MW-2 (B1C0625-03) Water Sampled: 03/26/01 12:10 Received: 03/26/01 18:30									
Diesel Range Hydrocarbons	1.18	0.250	mg/l	1	1C30008	03/30/01	04/02/01	WTPH-D	D-08
Heavy Oil Range Hydrocarbons	ND	0.750	"	"	"	"	"	"	
Surrogate: 2-FBP	70.9 %	50-150			"	"	"	"	
Surrogate: Octacosane	67.5 %	50-150			"	"	"	"	
MW-3 (B1C0625-04) Water Sampled: 03/26/01 10:45 Received: 03/26/01 18:30									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	1C30008	03/30/01	04/02/01	WTPH-D	
Heavy Oil Range Hydrocarbons	ND	0.750	"	"	"	"	"	"	
Surrogate: 2-FBP	61.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	64.7 %	50-150			"	"	"	"	
MW-4 (B1C0625-05) Water Sampled: 03/26/01 12:50 Received: 03/26/01 18:30									
Diesel Range Hydrocarbons	0.266	0.250	mg/l	1	1C30008	03/30/01	04/02/01	WTPH-D	D-08
Heavy Oil Range Hydrocarbons	ND	0.750	"	"	"	"	"	"	
Surrogate: 2-FBP	70.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	70.4 %	50-150			"	"	"	"	
MW-5 (B1C0625-06) Water Sampled: 03/26/01 13:35 Received: 03/26/01 18:30									
Diesel Range Hydrocarbons	77.9	10.2	mg/l	41	1C30008	03/30/01	04/03/01	WTPH-D	D-08
Heavy Oil Range Hydrocarbons	ND	30.8	"	"	"	"	"	"	
Surrogate: 2-FBP	%	50-150			"	"	"	"	S-01
Surrogate: Octacosane	66.5 %	50-150			"	"	"	"	

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 Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588

Gettler-Ryan Inc. - Dublin
 6747 Sierra Court Suite G
 Dublin CA, 94568

Project: Chevron #20-9335
 Project Number: 386750
 Project Manager: Deanna Harding

Reported:
 04/09/01 08:34

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (B1C0625-03) Water Sampled: 03/26/01 12:10 Received: 03/26/01 18:30									
Methyl tert-butyl ether	ND	5.00	ug/l	1	1C29024	03/29/01	03/29/01	EPA 8260B	
Surrogate: 1,2-DCA-d4	136 %	73-137			"	"	"	"	
Surrogate: Toluene-d8	179 %	75-124			"	"	"	"	S-04
Surrogate: 4-BFB	85.6 %	77-120			"	"	"	"	
MW-4 (B1C0625-05) Water Sampled: 03/26/01 12:50 Received: 03/26/01 18:30									
Methyl tert-butyl ether	ND	5.00	ug/l	1	1C29024	03/29/01	03/29/01	EPA 8260B	
Surrogate: 1,2-DCA-d4	135 %	73-137			"	"	"	"	
Surrogate: Toluene-d8	114 %	75-124			"	"	"	"	
Surrogate: 4-BFB	107 %	77-120			"	"	"	"	
MW-5 (B1C0625-06) Water Sampled: 03/26/01 13:35 Received: 03/26/01 18:30									
Methyl tert-butyl ether	ND	5.00	ug/l	1	1C31005	03/30/01	03/30/01	EPA 8260B	
Surrogate: 1,2-DCA-d4	191 %	73-137			"	"	"	"	S-04
Surrogate: Toluene-d8	282 %	75-124			"	"	"	"	S-04
Surrogate: 4-BFB	121 %	77-120			"	"	"	"	S-04

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 425.420 ... ix 425.420.9210
 Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588

Gettler-Ryan Inc. - Dublin 6747 Sierra Court Suite G Dublin CA, 94568	Project: Chevron #20-9335 Project Number: 386750 Project Manager: Deanna Harding	Reported: 04/09/01 08:34
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Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1C30012: Prepared 03/30/01 Using EPA 5030B (P/T)

Blank (1C30012-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Methyl tert-butyl ether	ND	1.00	"							
Surrogate: 4-BFB (FID)	44.9		"	48.0		93.5	50-150			
Surrogate: 4-BFB (PID)	44.3		"	48.0		92.3	50-150			

LCS (1C30012-BS1)

Gasoline Range Hydrocarbons	471	50.0	ug/l	500		94.2	70-130			
Surrogate: 4-BFB (FID)	50.9		"	48.0		106	50-150			

Duplicate (1C30012-DUP1)

Source: B1C0625-03

Gasoline Range Hydrocarbons	14800	10000	ug/l		17000			13.8	25	
Surrogate: 4-BFB (FID)	45.7		"	48.0		95.2	50-150			

Duplicate (1C30012-DUP2)

Source: B1C0734-04

Gasoline Range Hydrocarbons	32400	2500	ug/l		32500			0.308	25	
Surrogate: 4-BFB (FID)	46.7		"	48.0		97.3	50-150			

Matrix Spike (1C30012-MS1)

Source: B1C0625-02

Benzene	8.64	0.500	ug/l	10.0	ND	85.3	70-130			
Toluene	8.51	0.500	"	10.0	ND	84.1	70-130			
Ethylbenzene	8.48	0.500	"	10.0	ND	84.8	70-130			
Xylenes (total)	24.0	1.00	"	30.0	ND	80.0	70-130			
Methyl tert-butyl ether	9.65	1.00	"	10.0	ND	96.5	70-130			
Surrogate: 4-BFB (PID)	44.6		"	48.0		92.9	50-150			

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 Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588

Gettler-Ryan Inc. - Dublin 6747 Sierra Court Suite G Dublin CA, 94568	Project: Chevron #20-9335 Project Number: 386750 Project Manager: Deanna Harding	Reported: 04/09/01 08:34
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Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1C30012: Prepared 03/30/01 Using EPA 5030B (P/T)										
Matrix Spike Dup (1C30012-MSD1)					Source: B1C0625-02					
Benzene	9.20	0.500	ug/l	10.0	ND	90.9	70-130	6.28	15	
Toluene	9.08	0.500	"	10.0	ND	89.8	70-130	6.48	15	
Ethylbenzene	9.05	0.500	"	10.0	ND	90.5	70-130	6.50	15	
Xylenes (total)	25.6	1.00	"	30.0	ND	85.3	70-130	6.45	15	
Methyl tert-butyl ether	10.3	1.00	"	10.0	ND	103	70-130	6.52	15	
<i>Surrogate: 4-BFB (PID)</i>	<i>44.6</i>		<i>"</i>	<i>48.0</i>		<i>92.9</i>	<i>50-150</i>			

North Creek Analytical - Bothell

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 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588

Gettler-Ryan Inc. - Dublin 6747 Sierra Court Suite G Dublin CA, 94568	Project: Chevron #20-9335 Project Number: 386750 Project Manager: Deanna Harding	Reported: 04/09/01 08:34
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**Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C36 by WTPH-D (extended) with Silica Gel Clean-up -
 Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1C30008: Prepared 03/30/01 Using EPA 3520C/600 Series										
Blank (1C30008-BLK1)										
Diesel Range Hydrocarbons	ND	0.250	mg/l							
Heavy Oil Range Hydrocarbons	ND	0.750	"							
Surrogate: 2-FBP	0.216		"	0.320		67.5	50-150			
Surrogate: Octacosane	0.223		"	0.320		69.7	50-150			
LCS (1C30008-BS1)										
Diesel Range Hydrocarbons	1.35	0.250	mg/l	2.00		67.5	50-150			
Surrogate: 2-FBP	0.208		"	0.320		65.0	50-150			
Duplicate (1C30008-DUP1) Source: B1C0624-03										
Diesel Range Hydrocarbons	ND	0.250	mg/l		ND				44	
Heavy Oil Range Hydrocarbons	ND	0.750	"		ND				44	
Surrogate: 2-FBP	0.471		"	0.705		66.8	50-150			
Surrogate: Octacosane	0.476		"	0.705		67.5	50-150			
Duplicate (1C30008-DUP2) Source: B1C0707-01										
Diesel Range Hydrocarbons	ND	0.250	mg/l		ND			30.2	44	
Heavy Oil Range Hydrocarbons	ND	0.750	"		ND				44	
Surrogate: 2-FBP	0.398		"	0.634		62.8	50-150			
Surrogate: Octacosane	0.417		"	0.634		65.8	50-150			

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 425.420.9200 fax 425.420.9210
 Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7586

Gettler-Ryan Inc. - Dublin 6747 Sierra Court Suite G Dublin CA, 94568	Project: Chevron #20-9335 Project Number: 386750 Project Manager: Deanna Harding	Reported: 04/09/01 08:34
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1C29024: Prepared 03/29/01 Using EPA 5030B [P/T]

Blank (1C29024-BLK1)

Methyl tert-butyl ether	ND	5.00	ug/l							
Surrogate: 1,2-DCA-d4	25.6		"	20.1		127	73-137			
Surrogate: Toluene-d8	21.7		"	20.1		108	75-124			
Surrogate: 4-BFB	21.2		"	20.1		105	77-120			

LCS (1C29024-BS1)

Methyl tert-butyl ether	9.39	5.00	ug/l	10.0		93.9	70-130			
Surrogate: 1,2-DCA-d4	25.3		"	20.1		126	73-137			
Surrogate: Toluene-d8	22.8		"	20.1		113	75-124			
Surrogate: 4-BFB	21.1		"	20.1		105	77-120			

Batch 1C31005: Prepared 03/30/01 Using EPA 5030B [P/T]

Blank (1C31005-BLK1)

Methyl tert-butyl ether	ND	5.00	ug/l							
Surrogate: 1,2-DCA-d4	25.3		"	20.1		126	73-137			
Surrogate: Toluene-d8	22.9		"	20.1		114	75-124			
Surrogate: 4-BFB	20.9		"	20.1		104	77-120			

LCS (1C31005-BS1)

Methyl tert-butyl ether	9.36	5.00	ug/l	10.0		93.6	70-130			
Surrogate: 1,2-DCA-d4	26.9		"	20.1		134	73-137			
Surrogate: Toluene-d8	22.2		"	20.1		110	75-124			
Surrogate: 4-BFB	21.5		"	20.1		107	77-120			

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Robert Greer, Project Manager

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Seattle 11720 First Street Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588

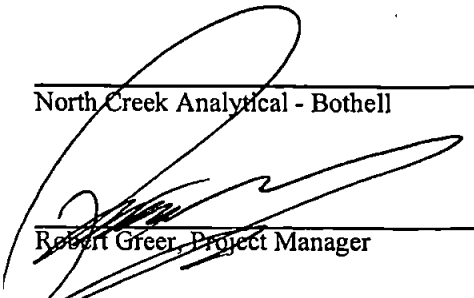
Gettler-Ryan Inc. - Dublin 6747 Sierra Court Suite G Dublin CA, 94568	Project: Chevron #20-9335 Project Number: 386750 Project Manager: Deanna Harding	Reported: 04/09/01 08:34
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Notes and Definitions

- D-08 Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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