



GETTLER - RYAN INC.

March 30, 2001
G-R Job #386456

Mr. Thomas Bauhs
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

RE: First Quarter Event of February 5, 2001
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-0338
5500 Telegraph Avenue
Oakland, California

Dear Mr. Bauhs:

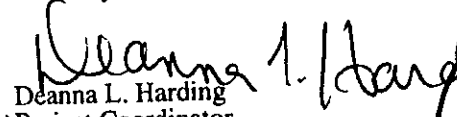
This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

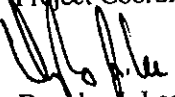
Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

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. The chain of custody document and laboratory analytical report are also attached.

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

Sincerely,


Deanna L. Harding
Project Coordinator


Douglas J. Lee
Senior Geologist, R.G. No. 6882

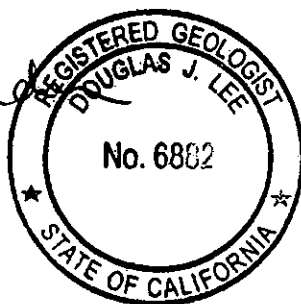

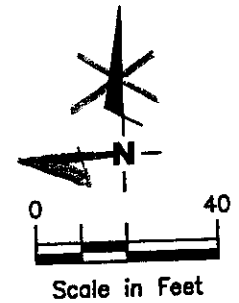
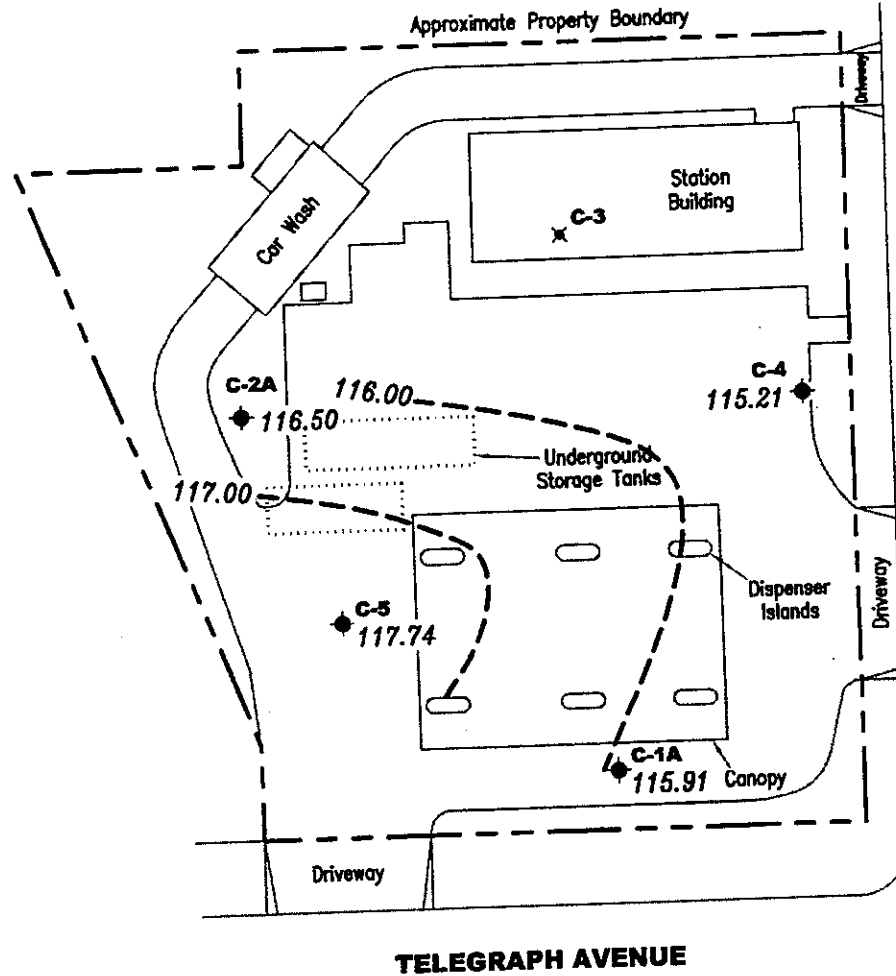


Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

EXPLANATION

- ◆ Groundwater monitoring well
- ✕ Destroyed groundwater monitoring well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- 99.99 — Groundwater elevation contour, dashed where inferred.

Approximate groundwater flow direction at a gradient of 0.02 FT./FT.

Source: Figure modified from drawing provided by RRM engineering contracting firm.

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

POTENTIOMETRIC MAP
 Chevron Service Station #9-0338
 5500 Telegraph Avenue
 Oakland, California

DATE
 February 5, 2001

REVISED DATE

PROJECT NUMBER
 386456

REVIEWED BY

FILE NAME: P:\Enviro\Chevron\9-0338\Q01-9-0338.DWG | Layout Tab: Pot1

FIGURE

1

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0338
5500 Telegraph Avenue
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
C-1A									
05/27/99	123.27	115.93	7.34	9100	40	25	560	1900	35
09/02/99	123.27	115.72	7.55	9700	24	18.4	626	754	66
10/27/99	123.27	115.84	7.43	4740	<10	<10	276	270	<100/66.6 ²
02/11/00	123.27	115.27	8.00	5100	17.5	<10	182	333	<50
05/10/00	123.27	116.65	6.62	11,000 ¹	110	170	480	980	<500
07/27/00	123.27	115.14	8.13	6,200 ¹	<50	<50	540	150	<250
11/21/00	123.27	115.60	7.67	6,500 ¹	19	<10	450	360	<50
02/05/01	123.27	115.91	7.36	5,270	1.43	1.04	326	269	15.0
C-2A									
05/27/99	125.89	119.53	6.36	<50	<0.5	<0.5	<0.5	<0.5	44
09/02/99	125.89	117.04	8.85	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/27/99	125.89	116.65	9.24	<50	<0.5	<0.5	<0.5	<0.5	8.75/7.77 ²
02/11/00	125.89	117.64	8.25	<50	<0.5	<0.5	<0.5	<0.5	17.8
05/10/00	125.89	117.46	8.43	<50	<0.50	<0.50	<0.50	<0.50	3.2
07/27/00	125.89	116.34	9.55	<50	<0.50	<0.50	<0.50	<0.50	20
11/21/00	125.89	116.39	9.50	<50	<0.50	<0.50	<0.50	<0.50	<50
02/05/01	125.89	116.50	9.39	<50.0	<0.500	<0.500	<0.500	<0.500	3.36
C-4									
05/27/99	125.40	115.34	10.06	<50	<0.5	<0.5	<0.5	<0.5	44
09/02/99	125.40	114.89	10.51	<50	<0.5	<0.5	<0.5	<0.5	3.1
10/27/99	125.40	115.03	10.37	<50	<0.5	<0.5	<0.5	<0.5	<5.0/<2.0 ²
02/11/00	125.40	114.48	10.92	<50	<0.5	<0.5	<0.5	<0.5	2.79
05/10/00	125.40	116.28	9.12	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/27/00	125.40	113.50	11.90	<50	<0.50	<0.50	<0.50	<0.50	<2.5
11/21/00	125.40	113.76	11.64	<50	<0.50	<0.50	<0.50	<0.50	<2.5
02/05/01	125.40	115.21	10.19	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50

Table 1
Groundwater Monitoring Data and Analytical Results
 Chevron Service Station #9-0338
 5500 Telegraph Avenue
 Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
C-5									2,200/2,500 ²
05/27/99	124.15	117.54	6.61	2800	350	73	32	280	890
09/02/99	124.15	116.27	7.88	570	9.0	<2.5	<2.5	<2.5	845/1,080 ²
10/27/99	124.15	116.90	7.25	543	4.22	<0.5	3.28	<0.5	565
02/11/00	124.15	117.41	6.74	488	0.56	<0.5	1.45	<0.5	380
05/10/00	124.15	118.36	5.79	140 ¹	3.6	1.2	0.53	2.0	460
07/27/00	124.15	116.92	7.23	260 ¹	1.4	1.2	0.93	2.8	350
11/21/00	124.15	117.47	6.68	130 ¹	0.74	0.73	<0.50	<0.50	197
02/05/01	124.15	117.74	6.41	111	<1.00	<1.00	<1.00	<1.00	
TRIP BLANK									
05/27/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/02/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/27/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
02/11/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/10/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/27/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
11/21/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
02/05/01	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0338
5500 Telegraph Avenue
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 10, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing

(ft.) = Feet

GWE = Groundwater Elevation

(msl) = Mean sea level

DTW = Depth to Water

TPH-G = Total Petroleum Hydrocarbons as Gasoline

¹ Laboratory report indicates gasoline C6-C12.

² Confirmation run.

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion

-- = Not Measured/Not Analyzed

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.

Groundwater samples are collected using Chevron-designated 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.

As requested by Chevron Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # 9-0338 Job#: 386456
 Address: 5500 Telegraph Ave. Date: 2-5-01
 City: Oakland, CA. Sampler: Tony Camarda

Well ID: C-1A Well Condition: o.k.
 Well Diameter: 2" in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
 Total Depth: 19.11 ft. Volume 2" = 0.17 3" = 0.98 4" = 0.66
 Depth to Water: 7.36 ft. Factor (VF) 6" = 1.50 12" = 5.80

X VF 1.7 = X 3 (case volume) = Estimated Purge Volume: 6.0 (gal.)

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

Starting Time: 3:15 Weather Conditions: Clear
 Sampling Time: 3:30 Water Color: Clear Odor: 4
 Purging Flow Rate: _____ gpm. Sediment Description: silty
 Did well de-water? N If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
3:18		7.14	893	66.8			
3:22		7.06	915	66.9			
3:25		6.93	921	66.9			

LABORATORY INFORMATION

SAMPLE ID	# - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY		ANALYSES
				SEQUOIA		TPH(G)/bTEX/mtbe
C-1A	3 VOAVIAL	Y	HCL			

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility# 9-0338 Job#: 386456
 Address: 5500 Telegraph Ave. Date: 2-5-01
 City: Oakland, CA. Sampler: Tony CANALDA

Well ID: C-2A Well Condition: O.K.
 Well Diameter: 2" in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
 Total Depth: 19.85 ft. Volume 2" = 0.17 3" = 0.98 4" = 0.66
 Depth to Water: 9.39 ft. Volume Factor (VF) 6" = 1.50 12" = 5.80

Purge Equipment: Disposable Bailer X VF 17 = 3 X 3 (case volume) = Estimated Purge Volume: 5.5 (gal.)

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

Starting Time: 3:45 Weather Conditions: Clear
 Sampling Time: 4:00 Water Color: Clear Odor: N
 Purging Flow Rate: _____ gpm. Sediment Description: Silty
 Did well de-water? N If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
3:48		7.73	810	66.7			
3:52		7.61	797	66.8			
3:55		7.39	781	67.0			

SAMPLE ID	# - CONTAINER	LABORATORY INFORMATION			ANALYSES	
		REFRIG.	PRESERV. TYPE	LABORATORY	TPH(GI)/bTEX/mTBE	
C-2A	3 VOAVIAL	Y	HCL	SEQUOIA		

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/Facility # 9-0338 Job #: 386456
 Address: 5500 Telegraph Ave. Date: 2-5-01
 City: Oakland, CA. Sampler: Tony Camacho

Well ID: C-4 Well Condition: O.K.
 Well Diameter: 2" in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
 Total Depth: 19.10 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water: 10.19 ft. 6" = 1.50 12" = 5.80

0.17 X VF = 0.17 X 3 (case volume) = Estimated Purge Volume: 4.5 (gal.)

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

Starting Time: 4:15 Weather Conditions: Clear
 Sampling Time: 4:30 Water Color: Clear Odor: N
 Purging Flow Rate: _____ gpm. Sediment Description: Sandy
 Did well de-water? N If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
4:18		7.44	578	67.1			
4:22		7.21	562	67.1			
4:25		7.05	543	67.3			

LABORATORY INFORMATION

SAMPLE ID	# - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES	
					TPH(G)/btex/mtbe	
C-4'	3 VOAVIAL	Y	HCL	SEQUOIA		

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility # 9-0338
Address: 5500 Telegraph Ave.
City: Oakland, CA.

Job#: 386456
Date: 2-5-01
Sampler: TOMY CAMARDA

Well ID C-5
Well Diameter 2" in.
Total Depth 20.05 ft.
Depth to Water 6.41 ft.

Well Condition: O.K.
Hydrocarbon Thickness: Ø (feet) Amount Bailed (product/water): Ø (Gallons)
Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
6" = 1.50 12" = 5.80

Ø X VF 0.17 = 0 X 3 (case volume) = Estimated Purge Volume: 7.0 (gal.)

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

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

Starting Time: 4:45
Sampling Time: 5:10
Purging Flow Rate: _____ gpm.
Did well de-water? N

Weather Conditions: Sunny
Water Color: Clear Odor: N
Sediment Description: Silt
If yes: Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>4:48</u>		<u>7.32</u>	<u>618</u>	<u>66.8</u>			
<u>4:52</u>		<u>7.12</u>	<u>623</u>	<u>66.9</u>			
<u>4:55</u>		<u>6.98</u>	<u>644</u>	<u>67.3</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY		ANALYSES
				SEQUOIA		TPH(G)/bTEX/mtbe
<u>C-5</u>	<u>3</u> VOAVIAL	<u>Y</u>	<u>HCL</u>			

COMMENTS: _____

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

Chain-of-Custody-Record

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

Chevron Facility Number #9-0338
Facility Address 5500 TELEGRAPH AVE, OAKLAND, CA
Consultant Project Number 386456
Consultant Name GETTLER-RYAN INC.
Address 6747 SIERRA COURT, SUITE J, DUBLIN, CA 94568
Project Contact (Name) DEANNA L. HARDING
(Phone) 925-551-7555 (Fax Number) 925-551-7899

Chevron Contact (Name) MR. TOM BAUHS
(Phone) (925) 842-8898
Laboratory Name SEQUOIA
Laboratory Service Order W1102181
Laboratory Service Code _____
Sample Collected by (Name) Tony Camarda
Signature Tony W. Camarda

State Method: CA OR WA NW Series CO UT IDAHO

Sample Number	Number of Containers	Matrix S = Soil W = Water C = Charcoal	Sample Preservation	Date/Time	State Method: <input checked="" type="checkbox"/> CA <input type="checkbox"/> OR <input type="checkbox"/> WA <input type="checkbox"/> NW Series <input type="checkbox"/> CO <input type="checkbox"/> UT IDAHO													Remarks							
					BTX/MTBE/TPH GAS (8020 + 8015)	BTX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Organics (8160)	Perpetable Hydrocarbons (8010)	Perpetable Organics (8160)	Extractable Organics (8270)	Oil and Grease (3430)	Metals (Pb, Cu, Zn, Ni) Cd, Cr, Fe, Mn, Al	BTX (8020)	BTX/MTBE/Naph. (8020)	TPH - HCD	TPH-G Extended		Lab Sample No.						
TB-6B	1	W	Wet	2-5-01	X		-01A																		
C-1A	3				X		-02 A-C																		
C-2A					X		-03																		
C-4					X		-04																		
C-5					X		-05																		

Relinquished By (Signature) <u>Tony W. Camarda</u>	Organization G-R INC.	Date/Time	Received By (Signature) <u>Wade Bell</u>	Organization Seq	Date/Time 2/8/01 11395	Iced Y/N <u>Y</u>
Relinquished By (Signature) <u>Wade Bell</u>	Organization Seq	Date/Time 2/8/01 11395	Received By (Signature)	Organization	Date/Time	Iced Y/N
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>MM</u>		Date/Time 2/8/01 11395	Iced Y/N <u>Y</u>

Turn Around Time (Circle Choice)

24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted



Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

22 February, 2001

Deanna L. Harding
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Chevron
Sequoia Report: W102181

Enclosed are the results of analyses for samples received by the laboratory on 08-Feb-01 15:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater
Project Manager

CA ELAP Certificate #1271





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

Project: Chevron
Project Number: Chevron # 9-0338
Project Manager: Deanna L. Harding

Reported:
22-Feb-01 11:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	W102181-01	Water	05-Feb-01 00:00	08-Feb-01 15:45
C-1A	W102181-02	Water	05-Feb-01 00:00	08-Feb-01 15:45
C-2A	W102181-03	Water	05-Feb-01 00:00	08-Feb-01 15:45
C-4	W102181-04	Water	05-Feb-01 00:00	08-Feb-01 15:45
C-5	W102181-05	Water	05-Feb-01 00:00	08-Feb-01 15:45


Charlie Westwater, Project Manager





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

Project: Chevron
Project Number: Chevron # 9-0338
Project Manager: Deanna L. Harding

Reported:
22-Feb-01 11:44

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (W102181-01) Water Sampled: 05-Feb-01 00:00 Received: 08-Feb-01 15:45									
Gasoline	ND	50.0	ug/l	1	1020382	15-Feb-01	15-Feb-01	EPA 8015M/8020M	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		107 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	65-135		"	"	"	"	
C-1A (W102181-02) Water Sampled: 05-Feb-01 00:00 Received: 08-Feb-01 15:45									
Gasoline	5270	100	ug/l	2	1020382	15-Feb-01	15-Feb-01	EPA 8015M/8020M	
Benzene	1.43	1.00	"	"	"	"	"	"	
Toluene	1.04	1.00	"	"	"	"	"	"	QR-04
Ethylbenzene	326	1.00	"	"	"	"	"	"	
Xylenes (total)	269	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	15.0	5.00	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99.7 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	65-135		"	"	"	"	
C-2A (W102181-03) Water Sampled: 05-Feb-01 00:00 Received: 08-Feb-01 15:45									
Gasoline	ND	50.0	ug/l	1	1020382	15-Feb-01	15-Feb-01	EPA 8015M/8020M	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	3.36	2.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		109 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.3 %	65-135		"	"	"	"	





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

Project: Chevron
Project Number: Chevron # 9-0338
Project Manager: Deanna L. Harding

Reported:
22-Feb-01 11:44

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-4 (W102181-04) Water Sampled: 05-Feb-01 00:00 Received: 08-Feb-01 15:45									
Gasoline	ND	50.0	ug/l	1	1020382	15-Feb-01	15-Feb-01	EPA 8015M/8020M	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		109 %		65-135	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.3 %		65-135	"	"	"	"	
C-5 (W102181-05) Water Sampled: 05-Feb-01 00:00 Received: 08-Feb-01 15:45									
Gasoline	111	100	ug/l	2	1020382	15-Feb-01	15-Feb-01	EPA 8015M/8020M	
Benzene	ND	1.00	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	197	5.00	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		107 %		65-135	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %		65-135	"	"	"	"	





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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1020382 - EPA 5030, waters										
Blank (1020382-BLK1) Prepared & Analyzed: 15-Feb-01										
Gasoline	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
Surrogate: <i>α,α,α</i> -Trifluorotoluene	312		"	300		104	65-135			
Surrogate: 4-Bromofluorobenzene	286		"	300		95.3	65-135			
LCS (1020382-BS1) Prepared & Analyzed: 15-Feb-01										
Gasoline	2410	50.0	ug/l	2750		87.6	65-135			
Benzene	38.3	0.500	"	32.0		120	65-135			
Toluene	195	0.500	"	193		101	65-135			
Ethylbenzene	47.8	0.500	"	46.0		104	65-135			
Xylenes (total)	238	0.500	"	231		103	65-135			
Methyl tert-butyl ether	63.3	2.50	"	52.0		122	65-135			
Surrogate: <i>α,α,α</i> -Trifluorotoluene	361		"	300		120	65-135			
Surrogate: 4-Bromofluorobenzene	302		"	300		101	65-135			
Matrix Spike (1020382-MS1) Source: P102340-04 Prepared & Analyzed: 15-Feb-01										
Gasoline	2660	50.0	ug/l	2750	ND	94.9	65-135			
Benzene	38.5	0.500	"	32.0	ND	120	65-135			
Toluene	185	0.500	"	193	ND	95.7	65-135			
Ethylbenzene	48.0	0.500	"	46.0	ND	104	65-135			
Xylenes (total)	233	0.500	"	231	ND	101	65-135			
Methyl tert-butyl ether	208	2.50	"	52.0	143	125	65-135			
Surrogate: <i>α,α,α</i> -Trifluorotoluene	352		"	300		117	65-135			
Surrogate: 4-Bromofluorobenzene	323		"	300		108	65-135			





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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1020382 - EPA 5030, waters										
Matrix Spike Dup (1020382-MSD1)										
		Source: P102340-04			Prepared & Analyzed: 15-Feb-01					
Gasoline	2630	50.0	ug/l	2750	ND	93.8	65-135	1.13	20	
Benzene	37.3	0.500	"	32.0	ND	117	65-135	3.17	20	
Toluene	185	0.500	"	193	ND	95.7	65-135	0	20	
Ethylbenzene	47.4	0.500	"	46.0	ND	103	65-135	1.26	20	
Xylenes (total)	232	0.500	"	231	ND	100	65-135	0.430	20	
Methyl tert-butyl ether	198	2.50	"	52.0	143	106	65-135	4.93	20	
Surrogate: <i>o,o,o</i> -Trifluorotoluene	348		"	300		116	65-135			
Surrogate: 4-Bromofluorobenzene	323		"	300		108	65-135			





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Notes and Definitions

- QR-04 Results between the primary and confirmation columns varied by greater than 40% RPD.
- 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

