



# GETTLER-RYAN INC.

*Bany*

## TRANSMITTAL

September 17, 2001

G-R #386456

*#*  
*STID 401*

TO: Mr. James Brownell  
Delta Environmental Consultants, Inc.  
3164 Gold Camp Drive, Suite 200  
Rancho Cordova, California 95670

CC: Mr. Thomas Bauhs  
Chevron Products Company  
P.O. Box 6004  
San Ramon, California 94583

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

RE: **Chevron Service Station**  
**#9-0338**  
**5500 Telegraph Avenue**  
**Oakland, California**

*did not locate file, conc are stable  
& low enough to consider closure. - what  
are residual soil conc?*

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	September 6, 2001	Groundwater Monitoring and Sampling Report Third Quarter - Event of August 6, 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 **October 1, 2001**, at which time the final report will be distributed to the following:

cc: ~~Mr. Larry Sego, Alameda County Health Care Services, Dept. of Environmental Health, 1153 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577~~  
Mr. Greg Guss, Gettler-Ryan Inc., 3140 Gold Camp Drive, Suite 170, Rancho Cordova, CA 95670

Enclosures

trans/9-0338-tb



# GETTLER-RYAN INC.

September 6, 2001  
G-R Job #386456

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

**RE: Third Quarter Event of August 6, 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

Hagop Kevork  
P.E. No. C55734



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

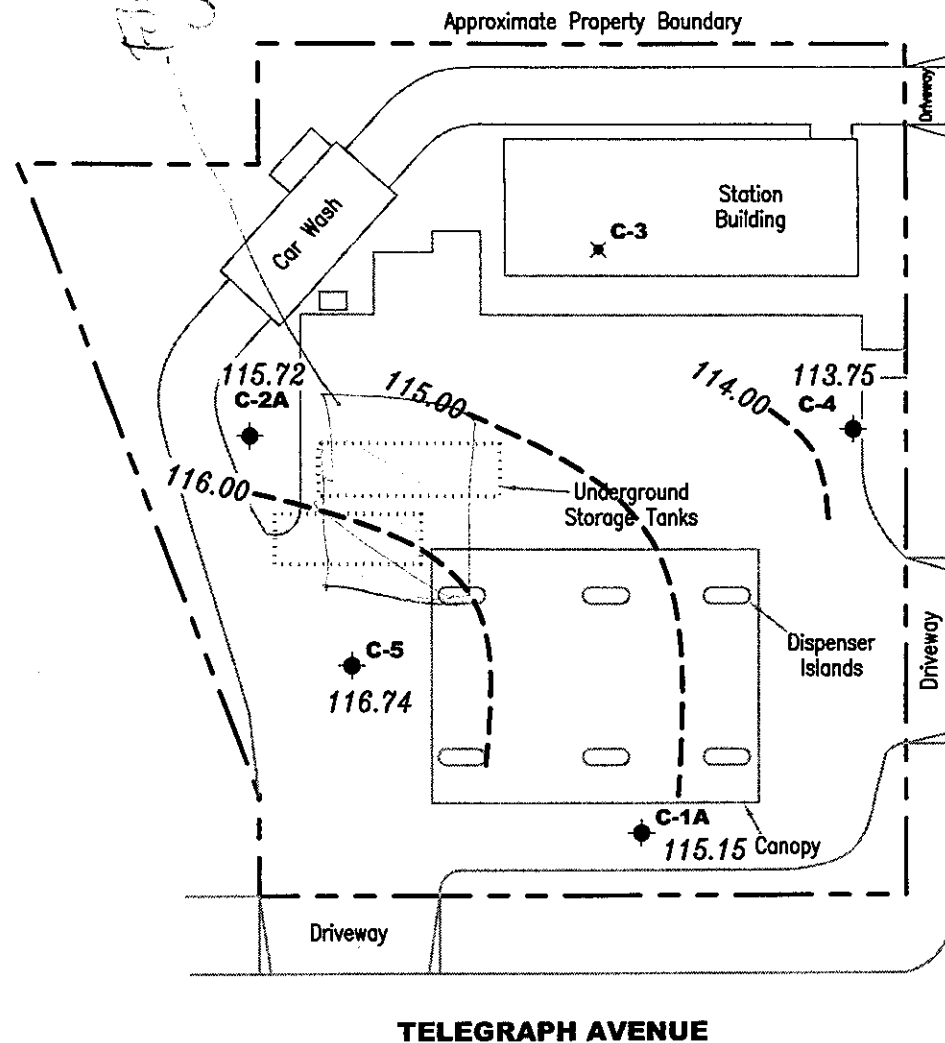
- ◆ Groundwater monitoring well
- ✕ Destroyed groundwater monitoring well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- 99.99 --- Groundwater elevation contour, dashed where inferred.



Approximate groundwater flow direction at a gradient of 0.03 Ft./Ft.



Scale in Feet



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

FIGURE  
**1**

PROJECT NUMBER  
 386456

REVIEWED BY

DATE  
 August 6, 2001

REVISED DATE

**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)
<b>C-1A</b>									
05/27/99	123.27	115.93	7.34	9,100	40	25	560	1,900	35
09/02/99	123.27	115.72	7.55	9,700	24	18.4	626	754	66
10/27/99	123.27	115.84	7.43	4,740	<10	<10	276	270	<100/66.6 <sup>2</sup>
02/11/00	123.27	115.27	8.00	5,100	17.5	<10	182	333	<50
05/10/00	123.27	116.65	6.62	11,000 <sup>1</sup>	110	170	480	980	<500
07/27/00	123.27	115.14	8.13	6,200 <sup>1</sup>	<50	<50	540	150	<250
11/21/00	123.27	115.60	7.67	6,500 <sup>1</sup>	19	<10	450	360	<50
02/05/01	123.27	115.91	7.36	5,270	1.43	1.04	326	269	15.0
05/07/01	123.27	115.90	7.37	3,000 <sup>1</sup>	37	27	520	490	63
08/06/01	123.27	115.15	8.12	3,300 <sup>1</sup>	3.1	3.8	160	100	47
<b>C-2A</b>									
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 <sup>2</sup>
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
05/07/01	125.89	116.29	9.60	<50	<0.50	<0.50	<0.50	<0.50	<2.5
08/06/01	125.89	115.72	10.17	<50	<0.50	0.59	<0.50	1.4	12
<b>C-4</b>									
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 <sup>2</sup>
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

**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)
<b>C-4 (cont)</b>									
02/05/01	125.40	115.21	10.19	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/07/01	125.40	114.45	10.95	<50	<0.50	<0.50	<0.50	<0.50	<2.5
<b>08/06/01</b>	<b>125.40</b>	<b>113.75</b>	<b>11.65</b>	<b>&lt;50</b>	<b>&lt;0.50</b>	<b>0.52</b>	<b>&lt;0.50</b>	<b>1.1</b>	<b>3.2</b>
<b>C-5</b>									
05/27/99	124.15	117.54	6.61	2,800	350	73	32	280	2,200/2,500 <sup>2</sup>
09/02/99	124.15	116.27	7.88	570	9.0	<2.5	<2.5	<2.5	890
10/27/99	124.15	116.90	7.25	543	4.22	<0.5	3.28	<0.5	845/1,080 <sup>2</sup>
02/11/00	124.15	117.41	6.74	488	0.56	<0.5	1.45	<0.5	565
05/10/00	124.15	118.36	5.79	140 <sup>1</sup>	3.6	1.2	0.53	2.0	380
07/27/00	124.15	116.92	7.23	260 <sup>1</sup>	1.4	1.2	0.93	2.8	460
11/21/00	124.15	117.47	6.68	130 <sup>1</sup>	0.74	0.73	<0.50	<0.50	350
02/05/01	124.15	117.74	6.41	111	<1.00	<1.00	<1.00	<1.00	197
05/07/01	124.15	117.91	6.24	100 <sup>1</sup>	2.1	1.0	<0.50	0.80	210
<b>08/06/01</b>	<b>124.15</b>	<b>116.74</b>	<b>7.41</b>	<b>94<sup>1</sup></b>	<b>0.84</b>	<b>1.2</b>	<b>0.54</b>	<b>1.5</b>	<b>360</b>
<b>TRIP BLANK</b>									
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
05/07/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
<b>08/06/01</b>	--	--	--	<b>&lt;50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;2.5</b>

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

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**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

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion

-- = Not Measured/Not Analyzed

<sup>1</sup> Laboratory report indicates gasoline C6-C12.

<sup>2</sup> Confirmation run.

## 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 when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. 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/ CHANNON  
 Facility # 9-0338  
 Address: 5800 TELEGRAPH AVE  
 City: OAKLAND, CA.

Job#: 386456  
 Date: 8-6-01  
 Sampler: T.C.

Well ID C-1A

Well Condition: O.k

Well Diameter 2" in.

Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 19.20 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

Depth to Water 8.12 ft.

11.08 x VF 1.7 = 1.8 x 3 (case volume) = Estimated Purge Volume: 5.5 (gal.)

Purge Equipment: Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 1413  
 Sampling Time: 1422  
 Purging Flow Rate: \_\_\_\_\_ gpm  
 Did well de-water? N

Weather Conditions: Sunny  
 Water Color: Light Brown Odor: N  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1415</u>	<u>2.0</u>	<u>7.28</u>	<u>952</u>	<u>67.2</u>	_____	_____	_____
<u>1417</u>	<u>4.0</u>	<u>7.04</u>	<u>943</u>	<u>66.8</u>	_____	_____	_____
<u>1419</u>	<u>5.5</u>	<u>7.10</u>	<u>931</u>	<u>66.7</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>C-1A</u>	<u>3 x VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPHG/BTEX/MTOE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: \_\_\_\_\_



## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ CHEVRON  
 Facility # 9-0338  
 Address: 5500 TELEGRAPH AVE  
 City: OAKLAND, CA.

Job#: 386456  
 Date: 8-6-01  
 Sampler: T-C

Well ID: C-2A Well Condition: OK  
 Well Diameter: 2" in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 gal.  
 Total Depth: 20.15 ft.  
 Depth to Water: 10.17 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80
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9.98 x VF 1/7 = 1.6 x 3 (case volume) = Estimated Purge Volume: 5.0 gal.

Purge Equipment: Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 1442  
 Sampling Time: 1450  
 Purging Flow Rate: — gpm  
 Did well de-water? N

Weather Conditions: Sunny  
 Water Color: LG BROWN Odor: N  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (°C)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1445</u>	<u>1.5</u>	<u>7.31</u>	<u>896</u>	<u>66.7</u>	_____	_____	_____
<u>1447</u>	<u>3.0</u>	<u>7.20</u>	<u>852</u>	<u>66.8</u>	_____	_____	_____
<u>1449</u>	<u>5.0</u>	<u>7.16</u>	<u>831</u>	<u>66.6</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES	
<u>C-2A</u>	<u>3 X VDA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH</u>	<u>BTEX / MTOE</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

COMMENTS: REPLACED LOCK.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ CHEVRON  
 Facility # 9-0338  
 Address: 5500 TELEGRAPH AVE  
 City: OAKLAND, CA.

Job#: 386456  
 Date: 8-6-01  
 Sampler: T-C

Well ID: C-4  
 Well Diameter: 2" in.  
 Total Depth: 19.32 ft.  
 Depth to Water: 11.65 ft.

Well Condition: o.k.  
 Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)  
 Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66  
 6" = 1.50 12" = 5.80

9.15 x VF .17 = 1.5 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: 1429  
 Sampling Time: 1436  
 Purging Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? N

Weather Conditions: Sunny  
 Water Color: Brown Odor: N  
 Sediment Description: Silty  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1431</u>	<u>1.5</u>	<u>7.15</u>	<u>636</u>	<u>67.2</u>	_____	_____	_____
<u>1433</u>	<u>3.0</u>	<u>7.03</u>	<u>652</u>	<u>66.9</u>	_____	_____	_____
<u>1435</u>	<u>4.5</u>	<u>6.98</u>	<u>661</u>	<u>66.7</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>C-4</u>	<u>3 X VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SQUOJA</u>	<u>TPHG/BTEX/MTOE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: \_\_\_\_\_

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ CHEVRON  
 Facility # 9-0338  
 Address: 5500 TELEGRAPH AVE.  
 City: OAKLAND, CA.

Job#: 386456  
 Date: 8-6-01  
 Sampler: T-C

Well ID: C-5  
 Well Diameter: 2" in.  
 Total Depth: 20.00 ft.  
 Depth to Water: 7.41 ft.

Well Condition: O.K.  
 Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)  
 Volume Factor (VF):  
 2" = 0.17      3" = 0.38      4" = 0.66  
 6" = 1.50      12" = 5.80

12.59 x VF .17 = 2.1 X 3 (case volume) = Estimated Purge Volume: 6.5 (gal.)

Purge Equipment: Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 1456  
 Sampling Time: 1505  
 Purging Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? N

Weather Conditions: Sunny  
 Water Color: cloudy Odor: ✓  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (°C)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1458</u>	<u>2.0</u>	<u>7.28</u>	<u>727</u>	<u>66.8</u>	_____	_____	_____
<u>1500</u>	<u>4.0</u>	<u>7.18</u>	<u>682</u>	<u>66.7</u>	_____	_____	_____
<u>1503</u>	<u>6.5</u>	<u>7.11</u>	<u>673</u>	<u>66.5</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE:	LABORATORY	ANALYSES
<u>C-5</u>	<u>3 X VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH/G/BTEX/MTOE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: \_\_\_\_\_

400 N. Wiget Lane  
 Walnut Creek, CA 94588  
 (925) 988-9600  
 (925) 988-9603  
 www.chevronlab.com

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

Chevron Facility Number #9-0338  
 Facility Address 5500 TELEGRAPH AVE, OAKLAND, CA 94612  
 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 W108167  
 Laboratory Service Order  
 Laboratory Service Code  
 Samples Collected by (Name) Tony Camarero  
 Signature Tony V. Camarero

Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air 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	
					BTEX/MTBE+TPH GAS (8020 + 8015)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oxygenates (8260)	Purgeable Halocarbons (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 - HClO	TPH-D Extended		Lab Sample No.
TB-LB	1	W	ALL	8-6-01	X				01	A									
C-1A	3			1422	X				02	A-C									
C-2A	1			1450	X				03										
C-4	1			1436	X				04										
C-5	1			1505	X				05	V									

sequoia analytical

Released By (Signature) <i>Tom Bauhs</i>	Organization G-R INC.	Date/Time 8/9/01/1500	Received By (Signature) <i>Michael Gustin</i>	Organization Sequoia	Date/Time 8-9-01/1530	Iced Y/N <input checked="" type="checkbox"/>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <input checked="" type="radio"/> As Contracted
Released By (Signature) <i>Tom Bauhs</i>	Organization G-R INC.	Date/Time 8-9-01/1500	Received By (Signature)	Organization	Date/Time	Iced Y/N	
Released By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <i>Michael Gustin</i>		Date/Time 8-9-01/1700	Iced Y/N	



Sequoia  
Analytical

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

AUG 24 2001

GETTLER-RYAN INC.  
GENERAL CONTRACTORS

24 August, 2001

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

RE: Chevron  
Sequoia Report: W108167

Enclosed are the results of analyses for samples received by the laboratory on 09-Aug-01 17:00. 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:**  
24-Aug-01 07:45

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	W108167-01	Water	06-Aug-01 00:00	09-Aug-01 17:00
C-1A	W108167-02	Water	06-Aug-01 14:22	09-Aug-01 17:00
C-2A	W108167-03	Water	06-Aug-01 14:50	09-Aug-01 17:00
C-4	W108167-04	Water	06-Aug-01 14:36	09-Aug-01 17:00
C-5	W108167-05	Water	06-Aug-01 15:05	09-Aug-01 17:00

Sequoia Analytical - Walnut Creek

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Charlie Westwater, Project Manager

Page 1 of 6





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:  
24-Aug-01 07:45

## Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TB-LB (W108167-01) Water</b> Sampled: 06-Aug-01 00:00    Received: 09-Aug-01 17:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	1H13003	15-Aug-01	15-Aug-01	EPA 8015M/8020	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.3 %	70-130		"	"	"	"	
<b>C-1A (W108167-02) Water</b> Sampled: 06-Aug-01 14:22    Received: 09-Aug-01 17:00									
Purgeable Hydrocarbons	3300	250	ug/l	5	1H13003	15-Aug-01	15-Aug-01	EPA 8015M/8020	P-01
Benzene	3.1	2.5	"	"	"	"	"	"	Q-23
Toluene	3.8	2.5	"	"	"	"	"	"	
Ethylbenzene	160	2.5	"	"	"	"	"	"	
Xylenes (total)	100	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	47	12	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		108 %	70-130		"	"	"	"	
<b>C-2A (W108167-03) Water</b> Sampled: 06-Aug-01 14:50    Received: 09-Aug-01 17:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	1H13003	15-Aug-01	15-Aug-01	EPA 8015M/8020	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	0.59	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	1.4	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	12	2.5	"	"	"	"	"	"	QR-04
Surrogate: a,a,a-Trifluorotoluene		96.3 %	70-130		"	"	"	"	





Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568	Project: Chevron Project Number: Chevron # 9-0338 Project Manager: Deanna L. Harding	<b>Reported:</b> 24-Aug-01 07:45
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**  
**Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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<b>C-4 (W108167-04) Water</b> Sampled: 06-Aug-01 14:36    Received: 09-Aug-01 17:00									
Purgeable Hydrocarbons	ND	50	ug/l	1	IH13003	15-Aug-01	15-Aug-01	EPA 8015M/8020	
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	0.52	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
Xylenes (total)	1.1	0.50	"	"	"	"	"	"	"
Methyl tert-butyl ether (MTBE)	3.2	2.5	"	"	"	"	"	"	"
Surrogate: a,a,a-Trifluorotoluene		96.0 %		70-130	"	"	"	"	"

<b>C-5 (W108167-05) Water</b> Sampled: 06-Aug-01 15:05    Received: 09-Aug-01 17:00									
Purgeable Hydrocarbons	94	50	ug/l	1	IH13003	15-Aug-01	15-Aug-01	EPA 8015M/8020	P-01
Benzene	0.84	0.50	"	"	"	"	"	"	"
Toluene	1.2	0.50	"	"	"	"	"	"	"
Ethylbenzene	0.54	0.50	"	"	"	"	"	"	"
Xylenes (total)	1.5	0.50	"	"	"	"	"	"	"
Surrogate: a,a,a-Trifluorotoluene		94.7 %		70-130	"	"	"	"	"

<b>C-5 (W108167-05RE1) Water</b> Sampled: 06-Aug-01 15:05    Received: 09-Aug-01 17:00									
Methyl tert-butyl ether (MTBE)	360	50	ug/l	20	IH13003	15-Aug-01	15-Aug-01	EPA 8015M/8020	
Surrogate a,a,a-Trifluorotoluene		95.7 %		70-130	"	"	"	"	"







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:  
24-Aug-01 07:45

## Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 1H13003 - EPA 5030B P/T

#### Blank (1H13003-BLK1)

Prepared & Analyzed: 13-Aug-01

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether (MTBE)	ND	2.5	"							
Surrogate: a.a.a-Trifluorotoluene	29.3		"	30.0		97.7	70-130			

#### Blank (1H13003-BLK2)

Prepared & Analyzed: 15-Aug-01

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether (MTBE)	ND	2.5	"							
Surrogate: a.a.a-Trifluorotoluene	28.7		"	30.0		95.7	70-130			

#### Blank (1H13003-BLK3)

Prepared & Analyzed: 16-Aug-01

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether (MTBE)	ND	2.5	"							
Surrogate: a.a.a-Trifluorotoluene	29.3		"	30.0		97.7	70-130			

#### LCS (1H13003-BS1)

Prepared & Analyzed: 13-Aug-01

Benzene	21.3	0.50	ug/l	20.0		106	70-130			
Toluene	18.0	0.50	"	20.0		90.0	70-130			
Ethylbenzene	17.8	0.50	"	20.0		89.0	70-130			
Xylenes (total)	56.5	0.50	"	60.0		94.2	70-130			
Surrogate: a.a.a-Trifluorotoluene	28.0		"	30.0		93.3	70-130			





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:  
24-Aug-01 07:45

## Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 1H13003 - EPA 5030B P/T

#### LCS (1H13003-BS2)

Prepared & Analyzed: 15-Aug-01

Benzene	18.7	0.50	ug/l	20.0		93.5	70-130			
Toluene	19.1	0.50	"	20.0		95.5	70-130			
Ethylbenzene	19.5	0.50	"	20.0		97.5	70-130			
Xylenes (total)	59.5	0.50	"	60.0		99.2	70-130			
Surrogate: a.a.a-Trifluorotoluene	27.9		"	30.0		93.0	70-130			

#### LCS (1H13003-BS3)

Prepared & Analyzed: 16-Aug-01

Benzene	20.8	0.50	ug/l	20.0		104	70-130			
Toluene	19.4	0.50	"	20.0		97.0	70-130			
Ethylbenzene	19.8	0.50	"	20.0		99.0	70-130			
Xylenes (total)	62.0	0.50	"	60.0		103	70-130			
Surrogate: a.a.a-Trifluorotoluene	27.8		"	30.0		92.7	70-130			

#### LCS Dup (1H13003-BSD1)

Prepared & Analyzed: 13-Aug-01

Benzene	23.5	0.50	ug/l	20.0		118	70-130	9.82	20	
Toluene	17.3	0.50	"	20.0		86.5	70-130	3.97	20	
Ethylbenzene	18.0	0.50	"	20.0		90.0	70-130	1.12	20	
Xylenes (total)	53.4	0.50	"	60.0		89.0	70-130	5.64	20	
Surrogate: a.a.a-Trifluorotoluene	28.1		"	30.0		93.7	70-130			

#### Matrix Spike (1H13003-MS1)

Source: W108180-06

Prepared: 13-Aug-01 Analyzed: 16-Aug-01

Benzene	13.0	0.50	ug/l	20.0	ND	65.0	70-130			Q-01
Toluene	18.4	0.50	"	20.0	ND	92.0	70-130			
Ethylbenzene	17.7	0.50	"	20.0	ND	88.5	70-130			
Xylenes (total)	58.2	0.50	"	60.0	ND	97.0	70-130			
Surrogate: a.a.a-Trifluorotoluene	28.3		"	30.0		94.3	70-130			

#### Matrix Spike Dup (1H13003-MSD1)

Source: W108180-06

Prepared: 13-Aug-01 Analyzed: 16-Aug-01

Benzene	16.2	0.50	ug/l	20.0	ND	81.0	70-130	21.9	20	Q-07
Toluene	20.0	0.50	"	20.0	ND	100	70-130	8.33	20	
Ethylbenzene	21.0	0.50	"	20.0	ND	105	70-130	17.1	20	
Xylenes (total)	62.6	0.50	"	60.0	ND	104	70-130	7.28	20	
Surrogate: a.a.a-Trifluorotoluene	26.8		"	30.0		89.3	70-130			





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:  
24-Aug-01 07:45

### Notes and Definitions

- P-01 Chromatogram Pattern: Gasoline C6-C12
- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- Q-07 The RPD value for this QC sample is above the established control limit. Review of associated QC indicates the high RPD does not represent an out-of-control condition for the batch.
- Q-23 The closing calibration was outside acceptance limits by 5.5%. This should be considered in evaluating the result. The average % difference for all analytes met the 15% requirement and the QC suggests that calibration linearity is not a factor.
- QR-04 The results between the primary and confirmation columns varied by greater than 40% RPD. The results may still be useful for their intended purpose.
- 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

