

Environmental Management  
Company  
6001 Bollinger Canyon Rd, K2256  
P.O. Box 6012  
San Ramon, CA 94583-2324  
Tel 925-842-1589  
Fax 925-842-8370

J. Mark Inglis  
Project Manager

Re 2066 CSL

Alameda County

JUN 21 2005

Environmental Health

**ChevronTexaco**

June 20, 2005

Alameda County Health Care Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

Re: Chevron Service Station # 206127

Address: 2301-2337 Blanding Ave., Alameda, California

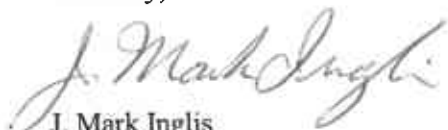
I have reviewed the attached routine groundwater monitoring report dated June 3, 2005.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Gettler-Ryan, Inc., upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,



J. Mark Inglis  
Project Manager

Enclosure: Report



# GETTLER-RYAN INC.

Alameda County

JUN 21 2005

Environmental Health

## TRANSMITTAL

June 3, 2005  
G-R #386498

TO: Mr. Robert Foss  
Cambria Environmental Technology, Inc.  
5900 Hollis Street, Suite A  
Emeryville, California 94608

CC: Mr. Mark Inglis  
ChevronTexaco Company  
P.O. Box 6012, Room K2256  
San Ramon, California 94583

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

RE: **Chevron #206127**  
**2301-2337 Blanding Avenue**  
**Alameda, California**  
**(Former Signal Oil Marine Terminal)**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	June 3, 2005	Groundwater Monitoring and Sampling Report Second Quarter - Event of April 26, 2005

### 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 **June 17, 2005**, at which time the final report will be distributed to the following:

cc: Mr. Barney Chan, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577

Enclosures

trans/206127-MI



# GETTLER-RYAN INC.

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June 3, 2005  
G-R Job #386498

Mr. Mark Inglis  
ChevronTexaco Company  
P.O. Box 6012, Room K2256  
San Ramon, CA 94583

**RE: Second Quarter Event of April 26, 2005**  
Groundwater Monitoring & Sampling Report  
Chevron #206127 (Former Signal Oil Marine Terminal)  
2301-2337 Blanding Avenue  
Alameda, California

Dear Mr. Inglis:

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 level was measured and the well was checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevation, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Groundwater Elevation Map is included as Figure 1.

Groundwater samples were collected from the monitoring well and submitted to a state certified laboratory for analyses. The field data sheet for this event is 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



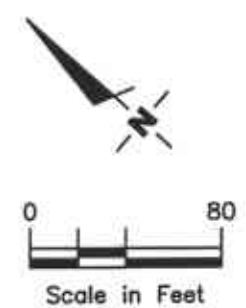
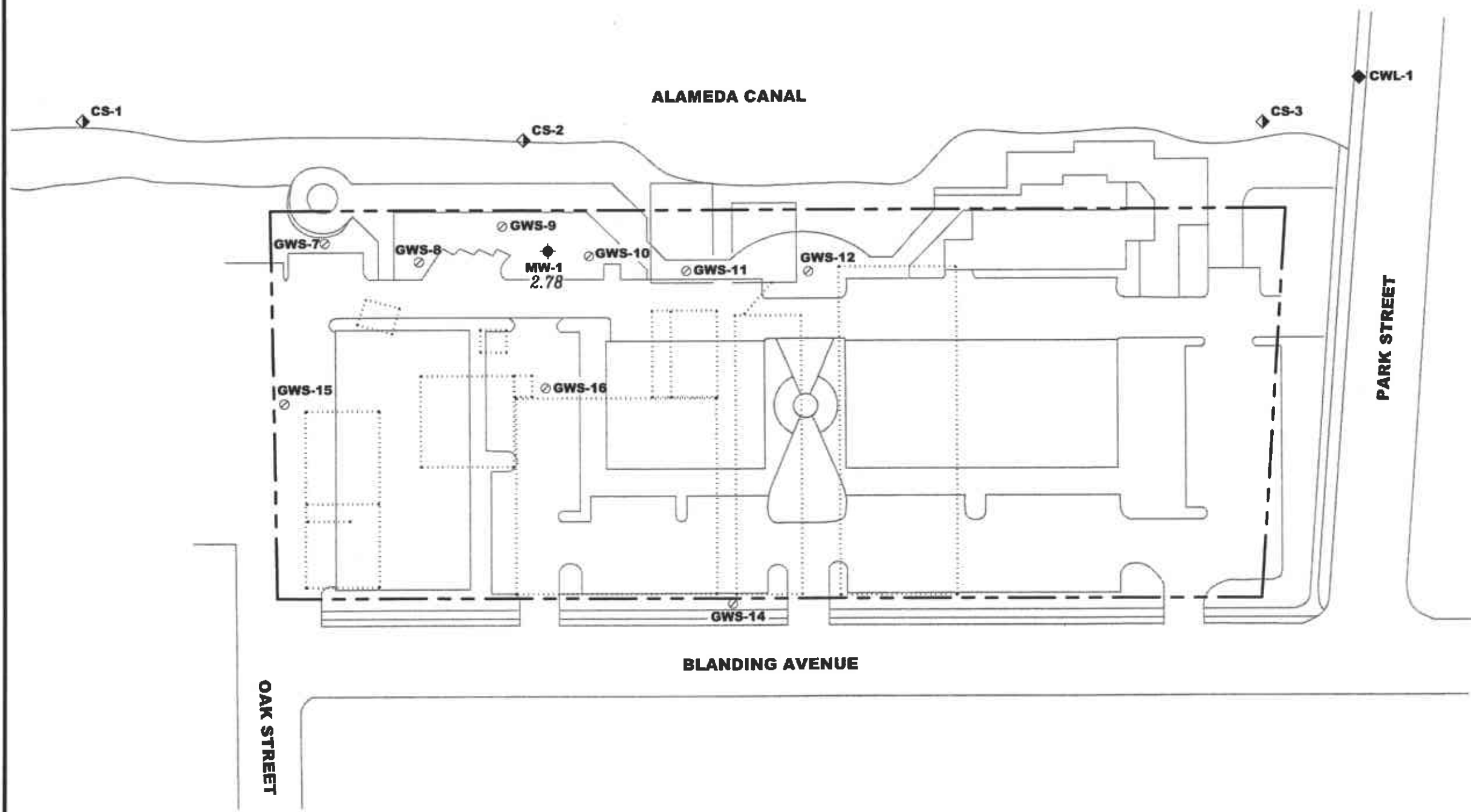
Robert A. Lauritzen  
Senior Geologist, P.G. No. 7504

Figure 1: Groundwater Elevation 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
- ◆ Canal water level gauging station from Park Street Bridge (RRM, October 1998)
- ◆ Canal grab surface water sample
- Shallow groundwater survey point (Geomatrix, April 1995)
- ⋯ Site features noted on Sanborn Fire Insurance map, dated 1932

99.99 Groundwater elevation in feet referenced to Mean Sea Level



**GROUNDWATER ELEVATION MAP**  
 Chevron #206127 (Former Signal Oil Marine Terminal)  
 2301-2337 Blanding Avenue  
 Alameda, California

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

PROJECT NUMBER: 386498  
 DATE: April 26, 2005  
 REVISIONS: NONE  
 FILE NAME: P:\Envid\Chevron\206127\005-20-6127.dwg | Layout Tab: Plot2

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

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Chevron #206127 (Former Signal Oil Marine Terminal)  
 2301-2337 Blanding Avenue  
 Alameda, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>MW-1</b>										
01/23/01 <sup>1</sup>	--	7.16	--	1,100 <sup>2,3</sup>	5,210 <sup>4</sup>	868	<50.0	<50.0	<50.0	<250
04/09/01	10.62	8.12	2.50	1,200 <sup>6</sup>	3,000 <sup>5</sup>	920	<20	<20	<20	<100
07/30/01	10.62	9.15	1.47	550 <sup>3,8</sup>	2,000 <sup>7</sup>	730	13	<5.0	<5.0	<25
10/08/01	10.62	7.86	2.76	2,200 <sup>9</sup>	1,200	120	2.4	5.9	6.4	<2.5
01/13/02	10.62	7.02	3.60	3,300 <sup>3</sup>	930	320	0.78	0.87	3.8	<2.5
04/08/02	10.62	9.60	1.02	1,200 <sup>3</sup>	960	50	1.4	2.6	9.0	<2.5
07/31/02	10.62	9.27	1.35	2,800 <sup>3</sup>	930	64	1.4	1.9	11	<5.0
10/15/02	10.62	8.00	2.62	1,000 <sup>3</sup>	620	25	0.78	1.4	4.3	<2.5
01/14/03	10.62	7.05	3.57	960 <sup>3</sup>	1,600	20	1.3	1.3	<1.5	<2.5
04/15/03	10.62	8.02	2.60	920 <sup>3</sup>	870	56	1	1.4	3.1	<2.5
07/16/03 <sup>10</sup>	10.62	10.08	0.54	1,400 <sup>3</sup>	780	85	1	0.8	0.7	<0.5
10/18/03 <sup>10</sup>	10.62	8.51	2.11	1,200 <sup>3</sup>	640	42	0.8	<0.5	0.5	<0.5
01/22/04 <sup>10</sup>	10.62	8.95	1.67	1,500 <sup>3</sup>	440	18	<0.5	<0.5	<0.5	<0.5
04/23/04 <sup>10</sup>	10.62	8.95	1.67	2,200 <sup>3</sup>	410	10	<0.5	<0.5	<0.5	<0.5
07/23/04 <sup>10</sup>	10.62	9.21	1.41	1,800 <sup>3</sup>	400	6	<0.5	<0.5	<0.5	<0.5
10/22/04 <sup>10</sup>	10.62	8.36	2.26	2,200 <sup>3</sup>	150	2	<0.5	<0.5	<0.5	<0.5
01/28/05 <sup>10</sup>	10.62	7.09	3.53	1,200 <sup>3</sup>	55	8	<0.5	<0.5	<0.5	<0.5
04/26/05 <sup>10</sup>	10.62	7.84	2.78	480 <sup>3</sup>	<50	5	<0.5	<0.5	<0.5	<0.5
<b>CS-2</b>										
07/30/01	--	--	--	140 <sup>3,5</sup>	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/08/01	--	--	--	53 <sup>9</sup>	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/13/02	--	--	--	<50 <sup>3</sup>	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/08/02	--	--	--	77 <sup>3</sup>	<50	<0.50	<0.50	<0.50	<1.5	<2.5
07/31/02	--	--	--	<50 <sup>3</sup>	<50	<0.50	<0.50	<0.50	<1.5	<2.5
10/15/02	--	--	--	<50 <sup>3</sup>	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/14/03	--	--	--	<50 <sup>3</sup>	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/15/03	--	--	--	<50 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<1.5	<2.5
07/16/03 <sup>10</sup>	--	--	--	<50 <sup>3</sup>	<50	<0.5	0.7	<0.5	0.6	<0.5
10/18/03 <sup>10</sup>	--	--	--	<50 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<0.5	<0.5

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron #206127 (Former Signal Oil Marine Terminal)  
2301-2337 Blanding Avenue  
Alameda, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>CS-2 (cont)</b>										
01/22/04 <sup>10</sup>	--	--	--	<50 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/23/04 <sup>10</sup>	--	--	--	<50 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/23/04 <sup>10</sup>	--	--	--	<50 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/22/04 <sup>10</sup>	--	--	--	<50 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/28/05 <sup>10</sup>	--	--	--	<50 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/26/05 <sup>10</sup>	--	--	--	<50 <sup>3</sup>	<50	<0.5	<0.5	<0.5	<0.5	<0.5
<b>Trip Blank</b>										
TB-LB										
01/23/01	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
04/09/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/30/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
<b>QA</b>										
10/08/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/13/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/08/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
07/31/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
10/15/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/14/03	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/15/03	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
07/16/03 <sup>10</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/18/03 <sup>10</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/22/04 <sup>10</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/23/04 <sup>10</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/23/04 <sup>10</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/22/04 <sup>10</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/28/05 <sup>10</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/26/05 <sup>10</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Chevron #206127 (Former Signal Oil Marine Terminal)  
 2301-2337 Blanding Avenue  
 Alameda, California

**EXPLANATIONS:**

TOC = Top of Casing	TPH-G = Total Petroleum Hydrocarbons as Gasoline	(ppb) = Parts per billion
(ft.) = Feet	B = Benzene	-- = Not Measured/Not Analyzed
DTW = Depth to Water	T = Toluene	CS-2 = Creek Sample
GWE = Groundwater Elevation	E = Ethylbenzene	QA = Quality Assurance/Trip Blank
(msl) = Mean sea level	X = Xylenes	
TPH-D = Total Petroleum Hydrocarbons as Diesel	MTBE = Methyl tertiary butyl ether	

\* TOC elevations were surveyed on January 25, 2001, by Virgil Chavez Land Surveying. The benchmark used for the survey was a City of Alameda benchmark being a cut square at the centerline return, south corner of Oak and Blanding, (Benchmark Elevation = 8.236 feet, NGVD 29).

- <sup>1</sup> Well development performed.
- <sup>2</sup> Laboratory report indicates unidentified hydrocarbons <C16.
- <sup>3</sup> TPH-D with silica gel cleanup.
- <sup>4</sup> Laboratory report indicates weathered gasoline C6-C12.
- <sup>5</sup> Laboratory report indicates discrete peaks.
- <sup>6</sup> Laboratory report indicates diesel C9-C24 + unidentified hydrocarbons <C16.
- <sup>7</sup> Laboratory report indicates gasoline C6-C12.
- <sup>8</sup> Laboratory report indicates unidentified hydrocarbons C9-C24.
- <sup>9</sup> Analysis performed without silica gel cleanup although was requested on the Chain of Custody.
- <sup>10</sup> BTEX and 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, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable 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 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 ChevronTexaco Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.





# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #206127  
 Site Address: 2301-2337 Blanding Avenue  
 City: Alameda, CA

Job Number: 386498  
 Event Date: 4-26-05 (inclusive)  
 Sampler: Soc

Well ID: MW-1 Date Monitored: 4-26-05 Well Condition: O.K.

Well Diameter: 2 in.  
 Total Depth: 17.16 ft.  
 Depth to Water: 7.84 ft.  
9.32 xVF

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

0.17 = 1.58 x3 case volume= Estimated Purge Volume: 5 gal.

### Purge Equipment:

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

### Sampling Equipment:

Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 0635 Weather Conditions: clear  
 Sample Time/Date: 0655 4-26-05 Water Color: clear Odor: yes  
 Purging Flow Rate: 0.5 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>0639</u>	<u>1.5</u>	<u>7.60</u>	<u>1341</u>	<u>63.5</u>	_____	_____
<u>0644</u>	<u>3</u>	<u>7.53</u>	<u>1342</u>	<u>63.7</u>	_____	_____
<u>0648</u>	<u>5</u>	<u>7.58</u>	<u>1346</u>	<u>63.2</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	<u>6</u> x vva vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)
	<u>2</u> x Amber	YES	NP	LANCASTER	TPH-Dw/sg

### COMMENTS:

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #206127 Job Number: 386498  
 Site Address: 2301-2337 Blanding Avenue Event Date: 4-26-05 (inclusive)  
 City: Alameda, CA Sampler: Soe

Well ID: CS-2 Date Monitored: 4/26/05 Well Condition: Creek Sample  
 Well Diameter:        in.  
 Total Depth:        ft.  
 Depth to Water:        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

xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume= Estimated Purge Volume: \_\_\_\_\_ gal.

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: clear  
 Sample Time/Date: 0710 19-26-05 Water Color: clear Odor: none  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
CS-2	6 x vov vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)
	2 x Amber	YES	NP	LANCASTER	TPH-Dw/sg

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

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

# Chevron California Region Analysis Request/Chain of Custody



042605-03

For Lancaster Laboratories use only  
 Acct. #: 10904 Sample #: 4511930-932

Group# 941081

Facility #: <u>SS#206127-OML G-R#386498 Global ID#</u> Site Address: <u>2301-2337 BLANDING AVENUE, ALAMEDA, CA</u> Chevron PM:MI _____ Lead Consultant: <u>CAMBRIARF</u> Consultant/Office: <u>G-R, Inc., 6747 Sierra Court, Suite J, Dublin, Ca. 94568</u> Consultant Prj. Mgr.: <u>Deanna L. Harding (deanna@grinc.com)</u> Consultant Phone # <u>925-551-7555</u> Fax #: <u>925-551-7899</u> Sampler: <u>JOE ASEMIAN</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____				<b>Matrix</b> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/>		<b>Analyses Requested</b> Preservation Codes H H BTEX + MTBE 8260 <input type="checkbox"/> 8021 <input type="checkbox"/> TPH 8015 MOD GRO <input type="checkbox"/> TPH 8015 MOD DRO <input checked="" type="checkbox"/> Silica Gel Cleanup 8260 full scan <input type="checkbox"/> Organometals _____ Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>										<b>Preservative Codes</b> H = HCl T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other <input type="checkbox"/> J value reporting needed <input checked="" type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input type="checkbox"/> Run ___ oxy s on all hits	
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8260	TPH 8015 MOD GRO	TPH 8015 MOD DRO	8260 full scan	Organometals	Lead 7420	7421	Comments / Remarks
<u>GLA</u>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>2</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
<u>MW-1</u>	<u>4-26-05</u>	<u>0655</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>8</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
<u>CS-2</u>	<u>"</u>	<u>0710</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>8</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
<b>Turnaround Time Requested (TAT) (please circle)</b> STD. TAT <u>72</u> hour      48 hour 24 hour      4 day      5 day			Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u> Relinquished by: _____			Date: <u>4-26-05</u> Time: <u>1035</u> Date: <u>4/26/05</u> Time: <u>1535</u> Date: _____ Time: _____		Received by: <u>[Signature]</u> Received by: <u>[Signature]</u> Received by: _____		Date: <u>4/26/05</u> Time: <u>1035</u> Date: <u>4/26/05</u> Time: _____ Date: _____ Time: _____							
<b>Data Package Options (please circle if required)</b> QC Summary Type I — Full Type VI (Raw Data) <input type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) Disk			Relinquished by Commercial Carrier: UPS      FedEx      Other <u>DHL</u>			Received by: <u>[Signature]</u> Temperature Upon Receipt <u>2.7°</u> C°		Received by: <u>[Signature]</u> Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Date: <u>4/27/05</u> Time: <u>0850</u> Date: _____ Time: _____ Date: _____ Time: _____							



# Analysis Report

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

## ANALYTICAL RESULTS

Prepared for:

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

925-842-8582

Prepared by:

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

ANALYTICAL RESULTS

ANALYTICAL RESULTS

## SAMPLE GROUP

The sample group for this submittal is 941081. Samples arrived at the laboratory on Wednesday, April 27, 2005. The PO# for this group is 99011184 and the release number is INGLIS.

<u>Client Description</u>		<u>Lancaster Labs Number</u>
QA-T-050426	NA Water	4511930
MW-1-W-050426	Grab Water	4511931
CS-2-W-050426	Grab Water	4511932

1 COPY TO  
ELECTRONIC  
COPY TO

Cambria C/O Gettler- Ryan  
Gettler-Ryan

Attn: Deanna L. Harding  
Attn: Cheryl Hansen



## **Analysis Report**

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Questions? Contact your Client Services Representative  
Megan A Moeller at (717) 656-2300.

Respectfully Submitted,

A handwritten signature in black ink that reads "Robin C. Runkle".

Robin C. Runkle  
Senior Chemist



# Analysis Report

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Lancaster Laboratories Sample No. WW 4511930

QA-T-050426 NA Water  
Facility# 206127 Job# 386498 GRD  
2301-2337 Blanding Ave T0600101574 QA  
Collected: 04/26/2005

Account Number: 10904

Submitted: 04/27/2005 08:50  
Reported: 05/03/2005 at 13:08  
Discard: 06/03/2005

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

## QABLA

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution Factor
			Result	Method		
01728	TPH-GRO - Waters	n.a.	N.D.	Detection Limit 50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
01728	TPH-GRO - Waters	N. CA LUPT Gasoline	1	04/29/2005 00:50	Deborah S Garrison	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	04/29/2005 10:52	Ginelle L Haines	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/29/2005 00:50	Deborah S Garrison	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/29/2005 10:52	Ginelle L Haines	n.a.



# Analysis Report

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Lancaster Laboratories Sample No. WW 4511931

MW-1-W-050426 Grab Water  
 Facility# 206127 Job# 386498 GRD  
 2301-2337 Blanding Ave T0600101574 MW-1  
 Collected: 04/26/2005 06:55 by JA

Account Number: 10904

Submitted: 04/27/2005 08:50  
 Reported: 05/03/2005 at 13:08  
 Discard: 06/03/2005

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

MIBLA

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution Factor
			Result	Method		
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
06610	TPH-DRO CALUFT(Water) w/Si Gel	n.a.	480.	50.	ug/l	1
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	5.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/29/2005 06:07	Linda C Pape	1
06610	TPH-DRO CALUFT(Water) w/Si Gel	CALUFT-DRO/8015B, Modified	1	05/02/2005 20:27	Tracy A Cole	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	04/29/2005 11:17	Ginelle L Haines	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/29/2005 06:07	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/29/2005 11:17	Ginelle L Haines	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	04/29/2005 23:15	Wanda F Oswald	1



# Analysis Report

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Lancaster Laboratories Sample No. WW 4511932

CS-2-W-050426 Grab Water  
 Facility# 206127 Job# 386498 GRD  
 2301-2337 Blanding Ave T0600101574 CS-2  
 Collected: 04/26/2005 07:10 by JA

Account Number: 10904

Submitted: 04/27/2005 08:50  
 Reported: 05/03/2005 at 13:08  
 Discard: 06/03/2005

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

C2BLA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
06610	TPH-DRO CALUFT(Water) w/Si Gel	n.a.	N.D.	50.	ug/l	1
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline	1	04/29/2005 06:35	Linda C Pape	1
06610	TPH-DRO CALUFT(Water) w/Si Gel	CALUFT-DRO/8015B, Modified	1	05/02/2005 21:50	Tracy A Cole	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	04/29/2005 12:30	Ginelle L Haines	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/29/2005 06:35	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/29/2005 12:30	Ginelle L Haines	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	04/29/2005 23:15	Wanda F Oswald	1



## Quality Control Summary

 Client Name: ChevronTexaco  
 Reported: 05/03/05 at 01:08 PM

Group Number: 941081

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: 051190000A TPH-DRO CALUFT(Water) w/Si Gel	N.D.	50.	Sample number(s): 4511931-4511932 ug/l	73	64	64-125	13	20
Batch number: 05119A16A TPH-GRO - Waters	N.D.	50.	Sample number(s): 4511930-4511932 ug/l	105	106	70-130	1	30
Batch number: Z051192AA Methyl Tertiary Butyl Ether	N.D.	0.5	Sample number(s): 4511930-4511932 ug/l	97		77-127		
Benzene	N.D.	0.5	ug/l	95		85-117		
Toluene	N.D.	0.5	ug/l	96		85-115		
Ethylbenzene	N.D.	0.5	ug/l	95		82-119		
Xylene (Total)	N.D.	0.5	ug/l	98		83-113		

### Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 05119A16A TPH-GRO - Waters			Sample number(s): 4511930-4511932 111 63-154						
Batch number: Z051192AA Methyl Tertiary Butyl Ether	98	99	69-134	1	30				
Benzene	100	100	83-128	0	30				
Toluene	102	102	83-127	0	30				
Ethylbenzene	101	102	82-129	1	30				
Xylene (Total)	103	103	82-130	0	30				

### Surrogate Quality Control

 Analysis Name: TPH-DRO CALUFT(Water) w/Si Gel  
 Batch number: 051190000A  
 Orthoterphenyl

4511931	102
4511932	95
Blank	96
LCS	121
LCSD	116

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 05/03/05 at 01:08 PM

Group Number: 941081

### Surrogate Quality Control

Limits: 52-134

Analysis Name: TPH-GRO - Waters  
Batch number: 05119A16A  
Trifluorotoluene-F

4511930	100
4511931	101
4511932	101
Blank	103
LCS	102
LCSD	101
MS	100

Limits: 70-142

Analysis Name: BTEX+MTEE by 8260B  
Batch number: Z051192AA  
Dibromofluoromethane

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4511930	101	95	99	93
4511931	102	92	99	94
4511932	100	95	99	93
Blank	99	93	98	93
LCS	100	96	99	96
MS	101	92	99	97
MSD	98	93	99	97

Limits: 81-120

82-112

85-112

83-113

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

# Explanation of Symbols and Abbreviations

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

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

## U.S. EPA CLP Data Qualifiers:

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

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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

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

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