

Environmental Management  
Company  
6001 Bollinger Canyon Rd, L4050  
P.O. Box 6012  
San Ramon, CA 94583-2324  
Tel 925-842-1589  
Fax 925-842-8370

Karen Streich  
Project Manager

Ro 405

April 2, 2004

**ChevronTexaco**

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

Alameda County  
APR 07 2004  
Environmental Health

Re: Chevron Service Station # 9-8341

Address: 3530 MacArthur Blvd., Oakland, California

I have reviewed the attached routine groundwater monitoring report dated March 16, 2004.

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,

  
Karen Streich  
Project Manager

Enclosure: Report



# GETTLER-RYAN INC.

## TRANSMITTAL

March 16, 2004

G-R #386346

TO: Mr. Bruce H. Eppler  
Cambria Environmental Technology, Inc.  
4111 Citrus Avenue, Unit #9  
Rocklin, California 95677

Alameda County  
APR 07 2004  
Superior Court

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

RE: **Chevron Service Station**  
**#9-8341**  
**3530 MacArthur Boulevard**  
**Oakland, California**  
**MTI: 61D-1650**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	March 11, 2004	Groundwater Monitoring and Sampling Report First Quarter - Event of February 16, 2004

### 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 *April 1, 2004*, at which time the final report will be distributed to the following:

cc: Mr. Don Hwang, Alameda County Health Care Services, Dept. of Environmental Health, 1153 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577  
Mr. Chuck Headlee, RWQCB-S.F. Bay Region, 1515 Clay St., Suite 1400, Oakland, CA 94612

Enclosures

trans/9-8341-KS



# GETTLER - RYAN INC.

March 11, 2004  
G-R Job #386346

Ms. Karen Streich  
ChevronTexaco Company  
P.O. Box 6004  
San Ramon, CA 94583

**RE: First Quarter Event of February 16, 2004**  
Groundwater Monitoring & Sampling Report  
Chevron Service Station #9-8341  
3530 MacArthur Boulevard  
Oakland, California

Dear Ms. Streich:

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.

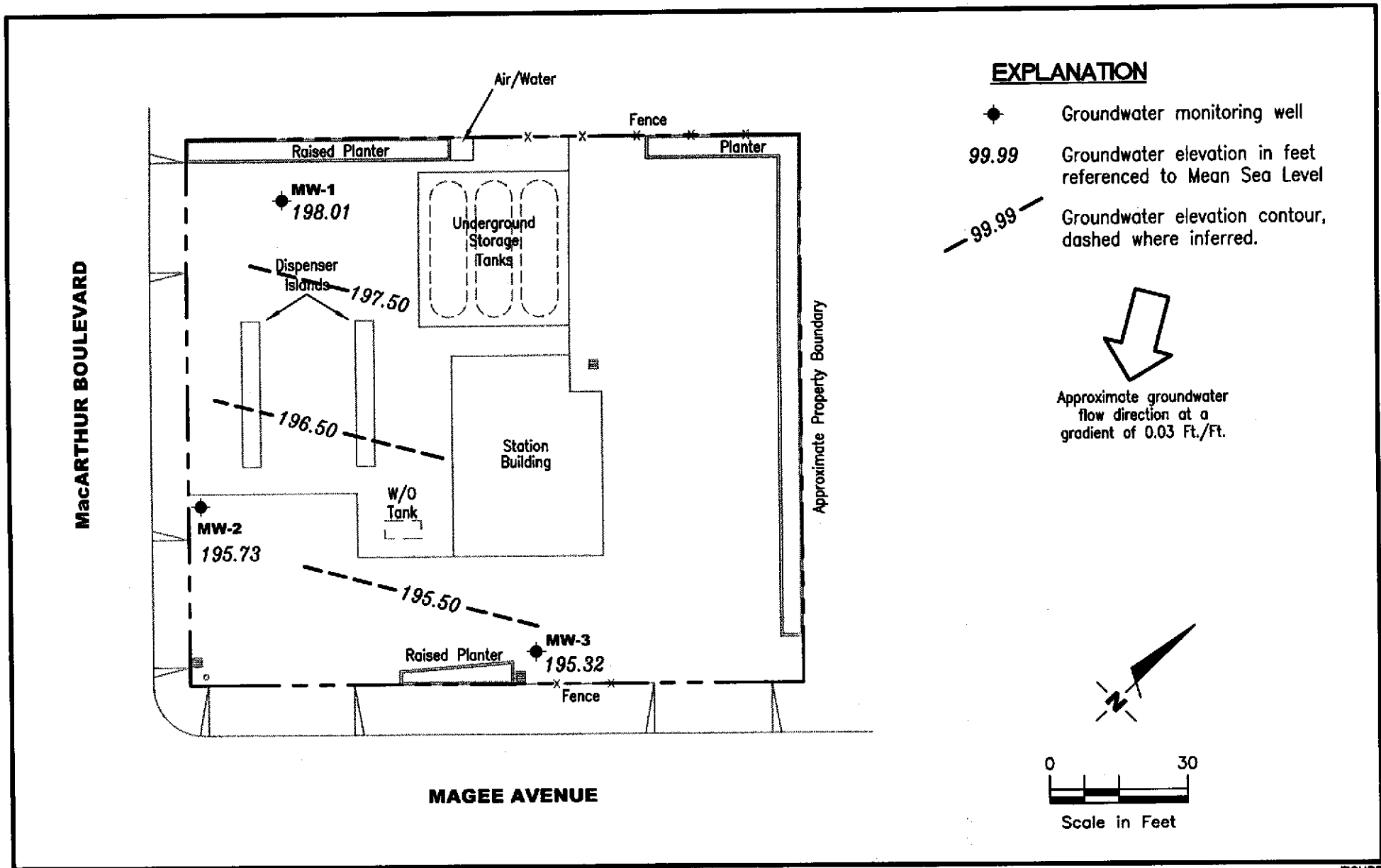
Sincerely,

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



**GETTLER - RYAN INC.**  
 8747 Sierra Ct., Suite J  
 Dublin, CA 94568 (925) 551-7555

**POTENTIOMETRIC MAP**  
 Chevron Service Station #9-8341  
 3530 MacArthur Boulevard  
 Oakland, California

FIGURE  
**1**

JOB NUMBER  
 386346

REVIEWED BY

DATE  
 February 16, 2004

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-8341  
3530 MacArthur Boulevard  
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	ETHANOL <sup>♦</sup> (ppb)
MW-1										
	202.47	198.65	3.82	<50	<0.5	<0.5	<0.5	<0.5	ND	--
11/01/96	202.47	197.45	5.02	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/06/97	202.47	199.72	2.75	<50	<0.5	<0.5	<0.5	<0.5	14	--
04/14/97	202.47	197.71	4.76	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/17/97	202.47	196.72	5.75	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	202.47	196.97	5.50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/04/98	202.47	199.80	2.67	<50	4.2	<0.5	<0.5	<0.5	94	--
04/03/98	202.47	197.06	5.41	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/29/98	202.47	192.26	10.21	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/26/98	202.47	195.66	6.81	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/18/99	202.47	196.05	6.42	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
04/15/99	202.47	197.13	5.34	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
07/22/99	202.47	196.97	5.50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/13/99	202.47	196.43	6.04	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/21/00	202.47	197.11	5.36	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/10/00	202.47	197.60	4.87	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
07/12/00	202.47	197.05	5.42	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
10/05/00	202.47	196.79	5.68	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
01/05/01	202.47	197.30	5.17	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
04/05/01	202.47	197.83	4.64	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/20/01	202.47	197.29	5.18	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
11/26/01	202.47	197.65	4.82	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/14/02	202.47	197.68	4.79	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/07/02	202.47	197.55	4.92	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/02/02	202.47	197.36	5.11	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/11/02	202.47	197.40	5.07	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/03/03	202.47	197.69	4.78	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/05/03	202.47	198.86	3.61	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/04/03 <sup>4</sup>	202.47	197.39	5.08	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
11/19/03 <sup>4</sup>	202.47	197.44	5.03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
02/16/04 <sup>4</sup>	202.47	198.01	4.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-8341  
3530 MacArthur Boulevard  
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	ETHANOL♦ (ppb)
<b>MW-2</b>										
04/04/96	198.88	196.07	2.81	<50	<0.5	<0.5	<0.5	<0.5	6,100	--
11/01/96	198.88	195.27	3.61	<500	<5.0	<5.0	<5.0	<5.0	2,600	--
01/06/97	198.88	195.97	2.91	<2,000	31	<20	<20	<20	4,000	--
04/14/97	198.88	195.43	3.45	<2,000	<20	<20	<20	<20	5,100/5,800 <sup>1</sup>	--
07/17/97	198.88	194.98	3.90	<500	<5.0	<5.0	<5.0	<5.0	2,300/2,900 <sup>1</sup>	--
10/29/97	198.88	192.96	5.92	120 <sup>2</sup>	12	<0.5	<0.5	<0.5	810/900 <sup>1</sup>	--
02/04/98	198.88	195.05	3.83	<1,000	<10	<10	<10	<10	2,100/2,800 <sup>1</sup>	--
04/03/98	198.88	191.55	7.33	<1,000	<10	<10	<10	<10	3,800/3,600 <sup>1</sup>	--
07/29/98	198.88	189.86	9.02	120 <sup>3</sup>	<0.5	<0.5	<0.5	<0.5	2,800/3,900 <sup>1</sup>	--
10/26/98	198.88	192.77	6.11	<50	<0.5	<0.5	<0.5	<0.5	1,200	--
01/18/99	198.88	194.67	4.21	<1,000	<10	<10	<10	10.5	2,530	--
04/15/99	198.88	194.56	4.32	<50	<0.5	<0.5	<0.5	<0.5	5,270	--
07/22/99	198.88	193.73	5.15	<50	8.92	<0.5	<0.5	<0.5	1,450	--
10/13/99	198.88	192.23	6.65	<250	<2.5	<2.5	<2.5	<2.5	1,740	--
01/21/00	198.88	192.78	6.10	69.6	<0.5	<0.5	<0.5	<0.5	1,110	--
04/10/00	198.88	194.42	4.46	<500	<5.0	<5.0	<5.0	<5.0	1,700	--
07/12/00	198.88	195.24	3.64	<50.0	<0.500	<0.500	<0.500	<0.500	187	--
10/05/00	198.88	194.06	4.82	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
01/05/01	198.88	195.17	3.71	<50	<0.50	<0.50	<0.50	<0.50	1,800	--
04/05/01	198.88	192.94	5.94	<50	<0.50	<0.50	<0.50	<0.50	5,500	--
08/20/01	198.88	193.18	5.70	<50	<0.50	<0.50	<0.50	<0.50	2,000	--
11/26/01	198.88	193.55	5.33	<50	<0.50	<0.50	<0.50	<1.5	990	--
02/14/02	198.88	194.42	4.46	58	<0.50	<0.50	<0.50	<1.5	1,200	--
05/07/02	198.88	194.49	4.39	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/02/02	198.88	194.81	4.07	<50	<0.50	<0.50	<0.50	<1.5	490	--
11/11/02	198.88	194.76	4.12	<50	<0.50	<0.50	<0.50	<1.5	470	--
02/03/03	198.88	193.93	4.95	<50	<0.50	<0.50	<0.50	<1.5	690	--
05/05/03	198.88	194.38	4.50	<50	<0.5	<0.5	<0.5	<1.5	680	--
08/04/03 <sup>4</sup>	198.88	195.02	3.86	<50	<0.5	<0.5	<0.5	<0.5	460	<50
11/19/03 <sup>4</sup>	198.88	195.32	3.56	<50	<0.5	<0.5	<0.5	<0.5	540	<50
02/16/04 <sup>4</sup>	198.88	195.73	3.15	<50	<1	<1	<1	<1	1,200	<130

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-8341  
3530 MacArthur Boulevard  
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	ETHANOL♦ (ppb)
<b>MW-3</b>										
04/04/96	199.10	195.22	3.88	<50	<0.5	<0.5	<0.5	<0.5	ND	--
11/01/96	199.10	194.91	4.19	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/06/97	199.10	195.29	3.81	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/14/97	199.10	194.93	4.17	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/17/97	199.10	194.92	4.18	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	199.10	193.90	5.20	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/04/98	199.10	194.71	4.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/03/98	199.10	195.78	3.32	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/29/98	199.10	189.24	9.86	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/26/98	199.10	193.59	5.51	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/18/99	199.10	194.68	4.42	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
04/15/99	199.10	194.54	4.56	<50	<0.5	<0.5	<0.5	1.16	<5.0	--
07/22/99	199.10	192.45	6.65	<50	<0.5	<0.5	<0.5	<0.5	3.94	--
10/13/99	199.10	193.79	5.31	<50	<0.5	<0.5	<0.5	<0.5	6.55	--
01/21/00	199.10	193.18	5.92	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/10/00	199.10	194.32	4.78	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
07/12/00	199.10	193.86	5.24	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
10/05/00	199.10	195.17	3.93	<50.0	<0.500	<0.500	<0.500	<0.500	39.7	--
01/05/01	199.10	194.85	4.25	<50	<0.50	<0.50	<0.50	<0.50	2.9	--
04/05/01	199.10	194.72	4.38	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/20/01	199.10	194.35	4.75	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
11/26/01	199.10	193.60	5.50	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/14/02	199.10	194.82	4.28	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/07/02	199.10	194.58	4.52	85	<0.50	<0.50	<0.50	<1.5	610	--
08/02/02	199.10	194.72	4.38	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/11/02	199.10	195.04	4.06	<50	<0.50	<0.50	<0.50	<1.5	4.5	--
02/03/03	199.10	194.02	5.08	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/05/03	199.10	194.50	4.60	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/04/03 <sup>4</sup>	199.10	194.75	4.35	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
11/19/03 <sup>4</sup>	199.10	194.86	4.24	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
02/16/04 <sup>4</sup>	199.10	195.32	3.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-8341  
3530 MacArthur Boulevard  
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	ETHANOL♦ (ppb)
<b>TRIP BLANK</b>										
11/01/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/06/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/14/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/17/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/04/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/03/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/29/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/26/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/18/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
04/15/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
07/22/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/13/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/21/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/10/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
07/12/00	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
10/05/00	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
01/05/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
04/05/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/20/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
<b>QA</b>										
11/26/01	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/14/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/07/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/02/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/11/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/03/03	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/05/03	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/04/03 <sup>4</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/19/03 <sup>4</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/16/04 <sup>4</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-8341  
3530 MacArthur Boulevard  
Oakland, California

**EXPLANATIONS:**

Groundwater monitoring data and analytical results prior to April 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

ND = Not Detected

-- = Not Measured/Not Analyzed

(ppb) = Parts per billion

QA = Quality Assurance/Trip Blank

◆ Ethanol by EPA Method 8260.

<sup>1</sup> Confirmation run.

<sup>2</sup> Chromatogram report indicates an unidentified hydrocarbon and gas.

<sup>3</sup> Chromatogram report indicates an unidentified hydrocarbon.

<sup>4</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 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.



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-8341 Job Number: 386346  
 Site Address: 3530 Macarthur Blvd. Event Date: 2-16-04 (inclusive)  
 City: Oakland, CA Sampler: Andrew Smith

Well ID: MW-1 Date Monitored: 2-16-04 Well Condition: OK

Well Diameter: 2 in.  
 Total Depth: 26.85 ft.  
 Depth to Water: 4.46 ft.  
22.39 xVF 0.17 = 3.8

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

x3 (case volume) = Estimated Purge Volume: 11.4 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 Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft.  
 Depth to Water: \_\_\_\_\_ ft.  
 Hydrocarbon Thickness: \_\_\_\_\_ ft.  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1230 Weather Conditions: Raining  
 Sample Time/Date: 1240/2-16-04 Water Color: Clear Odor: None  
 Purging Flow Rate: 1.8 gpm. Sediment Description: None  
 Did well de-water? NO If yes, Time: 0 Volume: 0 gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1232</u>	<u>4</u>	<u>7.07</u>	<u>764</u>	<u>12.9</u>		
<u>1234</u>	<u>8</u>	<u>7.81</u>	<u>774</u>	<u>12.8</u>		
<u>1236</u>	<u>12</u>	<u>7.24</u>	<u>791</u>	<u>13.2</u>		

### LABORATORY INFORMATION

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

### COMMENTS:

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

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



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-8341 Job Number: 386346  
 Site Address: 3530 Macarthur Blvd. Event Date: 2-16-04 (inclusive)  
 City: Oakland, CA Sampler: A. Smith

Well ID: MW-2 Date Monitored: 2-16-04 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 33.18 ft.  
 Depth to Water: 3.15 ft.  
 Volume Factor (VF) table:  

3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

 xVF 0.17 = 5.10 x3 (case volume) = Estimated Purge Volume: 15.3 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 Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1200 Weather Conditions: raining  
 Sample Time/Date: 1220 / 2-16-04 Water Color: clear Odor: none  
 Purging Flow Rate: 3 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: φ Volume: φ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1202</u>	<u>6</u>	<u>7.52</u>	<u>862</u>	<u>13.0</u>		
<u>1204</u>	<u>12</u>	<u>7.98</u>	<u>865</u>	<u>14.1</u>		
<u>1205</u>	<u>15</u>	<u>7.67</u>	<u>869</u>	<u>13.6</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>6</u> x vob vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTX+MTBE(8260)/ ETHANOL(8260)</u>

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

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



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-8341 Job Number: 386346  
 Site Address: 3530 Macarthur Blvd. Event Date: 2-16-04 (inclusive)  
 City: Oakland, CA Sampler: A. Smith

Well ID: MW-3 Date Monitored: 2-16-04 Well Condition: OK

Well Diameter: 2 in.  
 Total Depth: 32.20 ft.  
 Depth to Water: 3.78 ft.  
28.42

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 0.17 = 4.83 x3 (case volume) = Estimated Purge Volume: 14.49 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 Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1130 Weather Conditions: raining  
 Sample Time/Date: 1140 12-16-04 Water Color: Cloudy Brown Odor: None  
 Purging Flow Rate: 3 gpm. Sediment Description: None  
 Did well de-water? No If yes, Time: 0 Volume: 0 gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1132</u>	<u>6</u>	<u>7.77</u>	<u>694</u>	<u>13.1</u>	_____	_____
<u>1134</u>	<u>12</u>	<u>7.78</u>	<u>784</u>	<u>13.0</u>	_____	_____
<u>1135</u>	<u>15</u>	<u>7.70</u>	<u>785</u>	<u>13.0</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-</u>	<u>x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260)/ETHANOL(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

### COMMENTS:

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

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

# Chevron California Region Analysis Request/Chain of Custody



021704-09

Acct. #: 10904

For Lancaster Laboratories use only  
Sample #: 4217845-48

SCR#: \_\_\_\_\_

Grp # 885042

Cambria MTI Project #: 61D-1650

Facility #: SS#9-8341 G-R#386346 Global ID#T0600101790  
 Site Address: 3530 MACARTHUR BLVD., OAKLAND, CA  
 Chevron PM: Mgmt. Transfer Initiative Lead Consultant: CAMBRIA  
 Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, Ca. 94568  
 Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)  
 Consultant Phone #: 925-551-7555 Fax #: 925-551-7899  
 Sampler: Andrew Smith  
 Service Order #: \_\_\_\_\_  Non SAR: \_\_\_\_\_

Matrix		Analyses Requested																		
		Preservation Codes																		
Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE	8260	8021	TPH	8015 MOD	GRO	TPH	8015 MOD	DRO	8260 full scan	Oxygenates	Lead	7420	7421	Ethanol	(8260)
										<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Preservative Codes**  
 H = HCl      T = Thiosulfate  
 N = HNO<sub>3</sub>    B = NaOH  
 S = H<sub>2</sub>SO<sub>4</sub>    O = Other

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

**8021 MTBE Confirmation**  
 Confirm highest hit by 8260  
 Confirm all hits by 8260  
 Run \_\_\_ oxy s on highest hit  
 Run \_\_\_ oxy s on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE	8260	8021	TPH	8015 MOD	GRO	TPH	8015 MOD	DRO	8260 full scan	Oxygenates	Lead	7420	7421	Ethanol	(8260)
QA	2-16-04	—	X			X			2	X	X														
MW-1	2-16-04	1240	X			X			6	X	X														
MW-2	2-16-04	1220	X			X			6	X	X														
MW-3	2-16-04	1140	X			X			6	X	X														

**Comments / Remarks**

**Turnaround Time Requested (TAT) (please circle)**  
 STD. TAT      72 hour      48 hour  
 24 hour      4 day      5 day

**Data Package Options (please circle if required)**  
 QC Summary      Type I — Full  
 Type VI (Raw Data)       Coelt Deliverable not needed  
 WIP (RWQCB)  
 Disk

Relinquished by: <u>Andrew Smith</u>	Date: <u>2-17-04</u>	Time: <u>7:00</u>	Received by: <u>Janis</u>	Date: <u>2/17/04</u>	Time: <u>09:00</u>
Relinquished by: <u>Janis</u>	Date: <u>2/17/04</u>	Time: <u>15:20</u>	Received by: <u>Andres Amaya</u>	Date: <u>2/17/04</u>	Time: <u>13:20</u>
Relinquished by: <u>Andres Amaya</u>	Date: <u>2/17/04</u>	Time: <u>15:00</u>	Received by: <u>Airborne/DHL</u>	Date: <u>2/17/04</u>	Time: _____
Relinquished by Commercial Carrier: UPS      FedEx      Other: <u>Airborne</u>	Temperature Upon Receipt: <u>41.5</u> °C		Received by: <u>Janis</u>	Date: <u>2/18/04</u>	Time: <u>09:15</u>
Custody Seals Intact?			Yes	No	

## ANALYTICAL RESULTS

Prepared for:

ChevronTexaco c/o Cambria  
Suite 9  
4111 Citrus Avenue  
Rocklin CA 95677  
916-630-1855

Prepared by:

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

*Handwritten notes:*  
RECEIVED  
ANALYTICAL RESULTS  
FEBRUARY 18, 2004

## SAMPLE GROUP

The sample group for this submittal is 885042. Samples arrived at the laboratory on Wednesday, February 18, 2004. The PO# for this group is 99011184 and the release number is MTI.

<u>Client Description</u>		<u>Lancaster Labs Number</u>
QA-T-040216	NA Water	4217845
MW-1-W-040216	Grab Water	4217846
MW-2-W-040216	Grab Water	4217847
MW-3-W-040216	Grab Water	4217848

1 COPY TO Cambria C/O Gettler- Ryan  
ELECTRONIC Gettler-Ryan  
COPY TO

Attn: Deanna L. Harding  
Attn: Cheryl Hansen

Questions? Contact your Client Services Representative  
Teresa L Cunningham at (717) 656-2300.

Respectfully Submitted,

*Robin C. Fumke*  
Robin C. Fumke  
Senior Chemist

Lancaster Laboratories Sample No. WW 4217845

 QA-T-040216 NA Water  
 Facility# 98341 Job# 386346 MTI# 61D-1650 GRD  
 3530 MacArthur, Oakland T0600101790 QA  
 Collected: 02/16/2004 00:00

Account Number: 10904

 Submitted: 02/18/2004 09:15  
 Reported: 02/27/2004 at 10:26  
 Discard: 03/29/2004

 ChevronTexaco c/o Cambria  
 Suite 9  
 4111 Citrus Avenue  
 Rocklin CA 95677

**ARTQA**

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. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	02/20/2004 02:00	Michael F Barrow	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	02/24/2004 07:44	Elizabeth M Taylor	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/20/2004 02:00	Michael F Barrow	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/24/2004 07:44	Elizabeth M Taylor	n.a.



Lancaster Laboratories Sample No. **WW 4217846**

 MW-1-W-040216                      Grab                      Water  
 Facility# 98341    Job# 386346    MTI# 61D-1650    GRD  
 3530 MacArthur, Oakland    T0600101790    MW-1  
 Collected: 02/16/2004 12:40                      by AS

Account Number: 10904

 Submitted: 02/18/2004 09:15  
 Reported: 02/27/2004 at 10:26  
 Discard: 03/29/2004

 ChevronTexaco c/o Cambria  
 Suite 9  
 4111 Citrus Avenue  
 Rocklin CA 95677

ART-1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
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. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
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 LUFT Gasoline Method	1	02/20/2004	02:33	Michael F Barrow	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	02/23/2004	02:36	Marc S Neal	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/20/2004	02:33	Michael F Barrow	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/23/2004	02:36	Marc S Neal	n.a.

Lancaster Laboratories Sample No. WW 4217847

 MW-2-W-040216 Grab Water  
 Facility# 98341 Job# 386346 MTI# 61D-1650 GRD  
 3530 MacArthur, Oakland T0600101790 MW-2  
 Collected: 02/16/2004 12:20 by AS

Account Number: 10904

 Submitted: 02/18/2004 09:15  
 Reported: 02/27/2004 at 10:26  
 Discard: 03/29/2004

 ChevronTexaco c/o Cambria  
 Suite 9  
 4111 Citrus Avenue  
 Rocklin CA 95677

ART-2

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. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	130.	ug/l	2.5
02010	Methyl Tertiary Butyl Ether	1634-04-4	1,200.	13.	ug/l	25
05401	Benzene	71-43-2	N.D.	1.	ug/l	2.5
05407	Toluene	108-88-3	N.D.	1.	ug/l	2.5
05415	Ethylbenzene	100-41-4	N.D.	1.	ug/l	2.5
06310	Xylene (Total)	1330-20-7	N.D.	1.	ug/l	2.5
Due to the level of methyl tertiary butyl ether, the reporting limits for all GC/MS volatile compounds were raised.						

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 Method	1	02/20/2004 03:06	Michael F Barrow	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	02/23/2004 02:57	Marc S Neal	2.5
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	02/23/2004 18:58	Carrie J McCullough	25
01146	GC VOA Water Prep	SW-846 5030B	1	02/20/2004 03:06	Michael F Barrow	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/23/2004 02:57	Marc S Neal	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	2	02/23/2004 18:58	Carrie J McCullough	n.a.

Lancaster Laboratories Sample No. WW 4217848

 MW-3-W-040216 Grab Water  
 Facility# 98341 Job# 386346 MTI# 61D-1650 GRD  
 3530 MacArthur, Oakland T0600101790 MW-3  
 Collected: 02/16/2004 11:40 by AS

Account Number: 10904

 Submitted: 02/18/2004 09:15  
 Reported: 02/27/2004 at 10:27  
 Discard: 03/29/2004

 ChevronTexaco c/o Cambria  
 Suite 9  
 4111 Citrus Avenue  
 Rocklin CA 95677

ART-3

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. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
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 Method	1	02/20/2004 03:39	Michael F Barrow	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	02/23/2004 03:39	Marc S Neal	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/20/2004 03:39	Michael F Barrow	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/23/2004 03:39	Marc S Neal	n.a.

## Quality Control Summary

 Client Name: ChevronTexaco c/o Cambria  
 Reported: 02/27/04 at 10:27 AM

Group Number: 885042

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 04050A07C TPH-GRO - Waters	Sample number(s): 4217845-4217848							
	N.D.	50.	ug/l	85	88	70-130	3	30
Batch number: P040531AA	Sample number(s): 4217846-4217848							
Ethanol	N.D.	50.	ug/l	91		46-145		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	87		77-127		
Benzene	N.D.	0.5	ug/l	95		85-117		
Toluene	N.D.	0.5	ug/l	93		85-115		
Ethylbenzene	N.D.	0.5	ug/l	92		82-119		
Xylene (Total)	N.D.	0.5	ug/l	92		84-120		
Batch number: P040541AA Methyl Tertiary Butyl Ether	Sample number(s): 4217847							
	N.D.	0.5	ug/l	85		77-127		
Batch number: P040543AA Methyl Tertiary Butyl Ether	Sample number(s): 4217845							
	N.D.	0.5	ug/l	95		77-127		
Benzene	N.D.	0.5	ug/l	96		85-117		
Toluene	N.D.	0.5	ug/l	98		85-115		
Ethylbenzene	N.D.	0.5	ug/l	98		82-119		
Xylene (Total)	N.D.	0.5	ug/l	99		84-120		

### Sample Matrix Quality Control

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 04050A07C TPH-GRO - Waters	Sample number(s): 4217845-4217848								
	97		63-154						
Batch number: P040531AA	Sample number(s): 4217846-4217848								
Ethanol	75	76	41-155	1	30				
Methyl Tertiary Butyl Ether	87	84	69-134	3	30				
Benzene	100	96	83-128	3	30				
Toluene	95	94	83-127	0	30				
Ethylbenzene	93	92	82-129	1	30				
Xylene (Total)	94	93	82-130	1	30				
Batch number: P040541AA Methyl Tertiary Butyl Ether	Sample number(s): 4217847								
	89	90	69-134	1	30				
Batch number: P040543AA Methyl Tertiary Butyl Ether	Sample number(s): 4217845								
	98	97	69-134	1	30				
Benzene	102	102	83-128	0	30				
Toluene	104	103	83-127	1	30				
Ethylbenzene	105	103	82-129	2	30				
Xylene (Total)	105	103	82-130	1	30				

### Surrogate Quality Control

\*- 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 c/o Cambria  
 Reported: 02/27/04 at 10:27 AM

Group Number: 885042

### Surrogate Quality Control

 Analysis Name: TPH-GRO - Waters  
 Batch number: 04050A07C  
 Trifluorotoluene-F

4217845	74
4217846	74
4217847	73
4217848	73
Blank	72
LCS	91
LCSD	92
MS	95

Limits: 57-146

 Analysis Name: BTEX+5 Oxygenates+EDC+EDB+ETOH  
 Batch number: P040531AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4217846	90	83	94	90
4217847	90	84	93	88
4217848	91	84	93	90
Blank	91	83	94	89
LCS	90	84	94	89
MS	91	85	93	88
MSD	91	83	94	90

Limits: 81-120

82-112

85-112

83-113

 Analysis Name: 8260 Master Scan (water)  
 Batch number: P040541AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	91	84	93	90
LCS	91	84	92	89
MS	90	83	94	89
MSD	91	83	93	90

Limits: 81-120

82-112

85-112

83-113

 Analysis Name: BTEX+MTBE by 8260B  
 Batch number: P040543AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4217845	96	96	99	97
Blank	96	95	100	97
LCS	97	97	100	97
MS	98	96	99	95
MSD	98	97	99	96

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 falls within the Method Detection Limit (MDL) and 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 ≥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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