



# GETTLER-RYAN INC.

## TRANSMITTAL

September 20, 2004

G-R #386346

TO: Mr. Bruce H. Eppler  
Cambria Environmental Technology, Inc.  
4111 Citrus Avenue, Suite 12  
Rocklin, California 95677

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
2	September 15, 2004	Groundwater Monitoring and Sampling Report Third Quarter - Event of August 20, 2004

### COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced report for **your use and distribution to the following:**

Ms. Karen Streich, ChevronTexaco Company, P.O. Box 6012, Room K2256, San Ramon, CA 94583

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **October 11 2004**, 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, 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

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# GETTLER - RYAN INC.

September 15, 2004  
G-R Job #386346

Ms. Karen Streich  
ChevronTexaco Company  
P.O. Box 6012, Room K2256  
San Ramon, CA 94583

**RE: Third Quarter Event of August 20, 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.

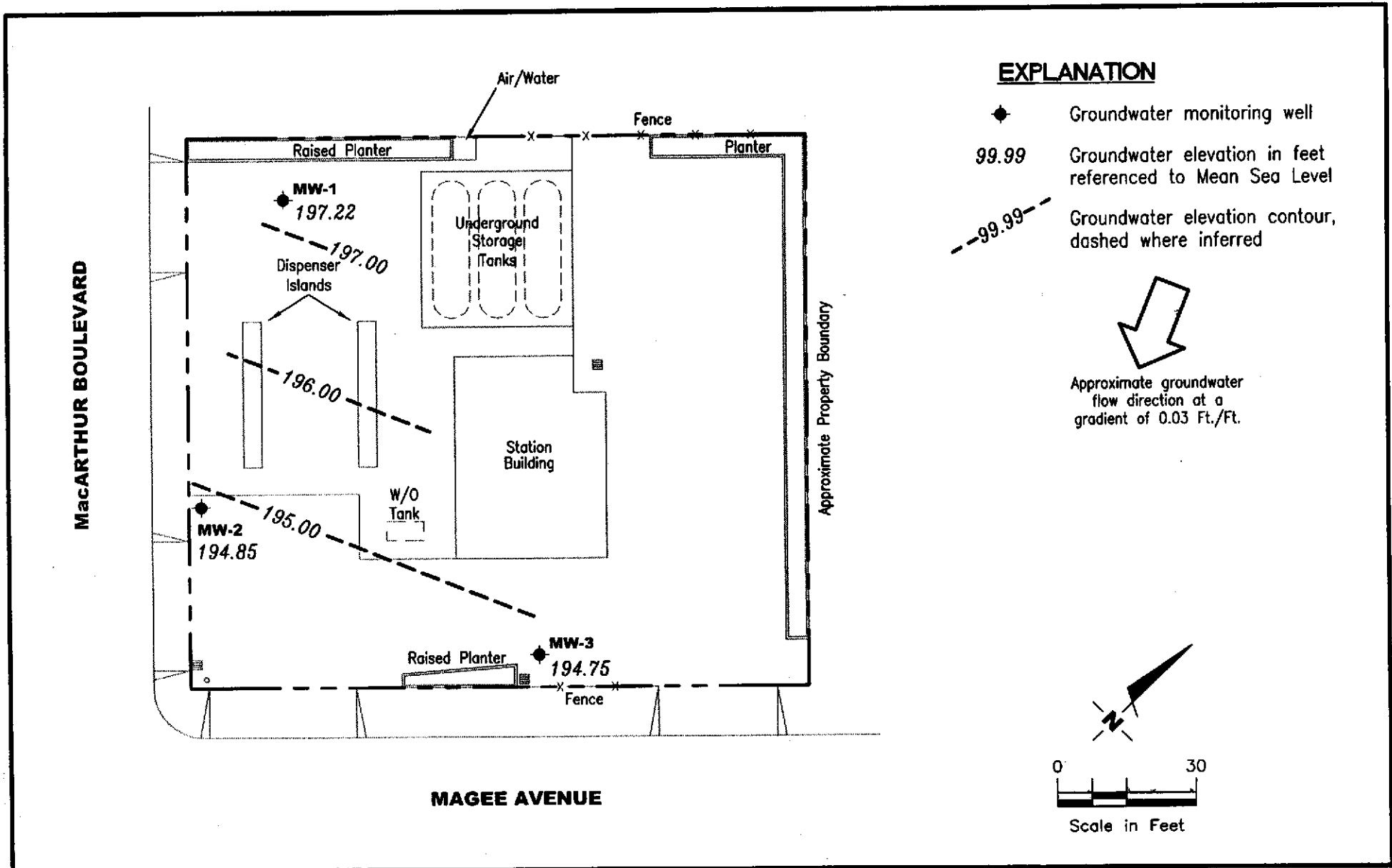
Sincerely,

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.**

6747 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  
August 8, 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♦ (ppb)
MW-1										
04/04/96	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>d</sup>	202.47	197.39	5.08	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
11/19/03 <sup>d</sup>	202.47	197.44	5.03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
02/16/04 <sup>d</sup>	202.47	198.01	4.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
06/03/04 <sup>d</sup>	202.47	197.52	4.95	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
08/20/04 <sup>d</sup>	202.47	197.22	5.25	<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 <sup>♦</sup> (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
06/03/04 <sup>4</sup>	198.88	195.18	3.70	<50	<0.5	<0.5	<0.5	<0.5	190	<50
08/20/04 <sup>4</sup>	198.88	194.85	4.03	<50	<0.5	<0.5	<0.5	<0.5	130	<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)
MW-3										
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>d</sup>	199.10	194.75	4.35	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
11/19/03 <sup>d</sup>	199.10	194.86	4.24	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
02/16/04 <sup>d</sup>	199.10	195.32	3.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
06/03/04 <sup>d</sup>	199.10	193.74	5.36	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
08/20/04 <sup>d</sup>	199.10	194.75	4.35	<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>1</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/19/03 <sup>1</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

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	ETHANOL♦ (ppb)
QA (cont)										
02/16/04 <sup>4</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/03/04 <sup>4</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/20/04 <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

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**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> RTEX 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 #9-8341  
 Site Address: 3530 Macarthur Blvd.  
 City: Oakland, CA

Job Number: 386346  
 Event Date: 8/20/04 (inclusive)  
 Sampler: G. H.

Well ID: MW-1 Date Monitored: 8/20/04 Well Condition: OK

Well Diameter: 2 in.  
 Total Depth: 26.85 ft.  
 Depth to Water: 5.25 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

21.60 x VF 0.17 = 3.67 x3 case volume= Estimated Purge Volume: 11 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 / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1035 Weather Conditions: Clear  
 Sample Time/Date: 1110 8/20/04 Water Color: Clear Odor: NO  
 Purging Flow Rate: — gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1045</u>	<u>4</u>	<u>7.46</u>	<u>874</u>	<u>24.1</u>		
<u>1050</u>	<u>8</u>	<u>7.38</u>	<u>861</u>	<u>24.1</u>		
<u>1056</u>	<u>11</u>	<u>7.37</u>	<u>867</u>	<u>24.0</u>		

### LABORATORY INFORMATION

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

COMMENTS: New well Depth taken

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: 8/20/04 (inclusive)  
 City: Oakland, CA Sampler: G. R.

Well ID: MW-2 Date Monitored: 8/20/04 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 33.17 ft.  
 Depth to Water: 4.03 ft.  
 $29.14 \times VF \ 0.17 = 4.95$  x3 case volume = Estimated Purge Volume: 14 gal.

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

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): 1205 Weather Conditions: Clear  
 Sample Time/Date: 1245 8/20/04 Water Color: Clear Odor: No  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1205</u>	<u>5</u>	<u>7.39</u>	<u>934</u>	<u>24.2</u>	_____	_____
<u>1223</u>	<u>10</u>	<u>7.31</u>	<u>942</u>	<u>24.1</u>	_____	_____
<u>1229</u>	<u>14</u>	<u>7.31</u>	<u>946</u>	<u>24.2</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>6 x vob 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: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-8341 Job Number: 386346  
 Site Address: 3530 Macarthur Blvd. Event Date: 8/20/04 (inclusive)  
 City: Oakland, CA Sampler: G. R.

Well ID: MW-3 Date Monitored: 8/20/04 Well Condition: OK

Well Diameter: 2 in.

Total Depth: 32.22 ft.

Depth to Water: 4.35 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

27.87 x VF 0.17 = 473 x3 case volume = Estimated Purge Volume: 14 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): 1115 Weather Conditions: Clear  
 Sample Time/Date: 1156 8/20/04 Water Color: clear Odor: No  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1125</u>	<u>5</u>	<u>7.41</u>	<u>908</u>	<u>24.2</u>		
<u>1135</u>	<u>10</u>	<u>7.36</u>	<u>897</u>	<u>24.1</u>		
<u>1145</u>	<u>14</u>	<u>7.34</u>	<u>899</u>	<u>24.1</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>6</u> x vva 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: \_\_\_\_\_

# Chevron California Region Analysis Request/Chain of Custody



082304-12

Acct. #: **10904**

For Lancaster Laboratories use only  
Sample #: **4338124-27**

Group # 909279

Cambria MTI Project #: 61D-1650

Facility #: **SS#9-8341 G-R#386345 Global ID#T0600101790**  
 Site Address: **3530 MACARTHUR BLVD., OAKLAND, CA**  
 Chevron PM: **MTI** 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: **G. Roper**  
 Service Order #: \_\_\_\_\_  Non SAR: \_\_\_\_\_

Matrix	Analyses Requested																		
	Soil	Water	Oil	Air	Total Number of Containers	Preservation Codes													
<input type="checkbox"/> Possible NPDES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> BTEX + MTBE 8260	<input type="checkbox"/> TPH 8015 MOD GRO	<input type="checkbox"/> TPH 8015 MOD DRO	<input type="checkbox"/> Silica Gel Cleanup	<input type="checkbox"/> 8260 full scan	<input type="checkbox"/> Organohalogenates	<input type="checkbox"/> Lead 7420	<input type="checkbox"/> 7421	<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	TPH 8015 MOD GRO	TPH 8015 MOD DRO	8260 full scan	Organohalogenates	Lead 7420	7421			
<b>QA</b>	8/20/01	—																	
MW-1	↓	1110	X		X	X	X	X	2	X	X	X	X	X	X	X	X	X	X
MW-2	↓	1245	X		X	X	X	X	6	X	X	X	X	X	X	X	X	X	X
MW-3	↓	1156	X		X	X	X	X	6	X	X	X	X	X	X	X	X	X	X

**Comments / Remarks**

Ethanol (9260)

**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 (RWOCB)      **EDF/EDD**  
 Disk

Relinquished by: <i>DR</i>	Date: 8/20/01	Time: 1415	Received by:	Date: 8/23/01	Time: 1415
Relinquished by: <i>Deanna L. Harding</i>	Date: 8/23/01	Time: 1415	Received by: <i>Deanna L. Harding</i>	Date: 8/23/01	Time: 1415
Relinquished by: <i>Deanna L. Harding</i>	Date: 8/24/01	Time: 1415	Received by: <i>DHL</i>	Date: 8/24/01	Time: 1415
Relinquished by Commercial Carrier: <i>UPS</i>	Date: 8/24/01	Time: 1415	Received by: <i>Shannon Spawley</i>	Date: 8/24/01	Time: 9:00
Temperature Upon Receipt: <b>25.5 °C</b>			Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		



# Analysis Report

2425 New Holland Pike, PO Box 1242E, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2661 • www.lancasterlabs.com

## ANALYTICAL RESULTS

Prepared for:

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

304 9/2/2004

SEVEN...  
...  
...

Prepared by:

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

## SAMPLE GROUP

The sample group for this submittal is 909279. Samples arrived at the laboratory on Wednesday, August 25, 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-040820	NA Water	4338124
MW-1-W-040820	Grab Water	4338125
MW-2-W-040820	Grab Water	4338126
MW-3-W-040820	Grab Water	4338127

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

Attn: Deanna L. Harding  
Attn: Cheryl Hansen



## ***Analysis Report***

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax 717-656-2661 • www.lancasterlabs.com

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

Respectfully Submitted,

A handwritten signature in cursive script that reads "Robin C. Runkle".

**Robin C. Runkle**  
**Senior Chemist**



Lancaster Laboratories Sample No. WW 4338124

 QA-T-040820 NA Water  
 Facility# 98341 Job# 386346 MTI# 61D-1650 GRD  
 3530 MacArthur-Oakland T0600101790 QA  
 Collected: 08/20/2004

Account Number: 10904

 Submitted: 08/25/2004 09:00  
 Reported: 08/31/2004 at 16:22  
 Discard: 10/01/2004

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

QAOAK

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
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.						
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 LUFT Gasoline Method	1	08/26/2004	04:47	Linda C Pape	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	08/28/2004	16:14	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/26/2004	04:47	Linda C Pape	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/28/2004	16:14	Anita M Dale	n.a.

Lancaster Laboratories Sample No. **WW 4338125**

 MW-1-W-040820                      Grab                      Water  
 Facility# 98341    Job# 386346    MTI# 61D-1650    GRD  
 3530 MacArthur-Oakland    T0600101790    MW-1  
 Collected: 08/20/2004 11:10                      by GR

Account Number: 10904

 Submitted: 08/25/2004 09:00  
 Reported: 08/31/2004 at 16:22  
 Discard: 10/01/2004

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

M1OAK

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
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.						
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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	08/26/2004 05:59	Linda C Pape	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	08/30/2004 12:21	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/26/2004 05:59	Linda C Pape	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/30/2004 12:21	Anita M Dale	n.a.

Lancaster Laboratories Sample No. WW 4338126

 MW-2-W-040820 Grab Water  
 Facility# 98341 Job# 386346 MTI# 61D-1650 GRD  
 3530 MacArthur-Oakland T0600101790 MW-2  
 Collected: 08/20/2004 12:45 by GR

Account Number: 10904

 Submitted: 08/25/2004 09:00  
 Reported: 08/31/2004 at 16:22  
 Discard: 10/01/2004

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

M2OAK

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
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.						
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	130.		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	Time		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	08/26/2004	06:34	Linda C Pape	1
01594	ETEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	08/30/2004	12:46	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/26/2004	06:34	Linda C Pape	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/30/2004	12:46	Anita M Dale	n.a.

Lancaster Laboratories Sample No. WW 4338127

 MW-3-W-040820 Grab Water  
 Facility# 98341 Job# 386346 MTI# 61D-1650 GRD  
 3530 MacArthur-Oakland T0600101790 MW-3  
 Collected: 08/20/2004 11:56 by GR

Account Number: 10904

 Submitted: 08/25/2004 09:00  
 Reported: 08/31/2004 at 16:22  
 Discard: 10/01/2004

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

M3OAK

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.					
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

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### 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	08/26/2004 07:10	Linda C Pape	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	08/30/2004 13:13	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/26/2004 07:10	Linda C Pape	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/30/2004 13:13	Anita M Dale	n.a.

## Quality Control Summary

 Client Name: ChevronTexaco c/o Cambria  
 Reported: 08/31/04 at 04:22 PM

Group Number: 909279

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: 04237A53B TPH-GRO - Waters	N.D.	50.	4338124-4338127 ug/l	103	102	70-130	1	30
Batch number: Z042411AA Methyl Tertiary Butyl Ether	N.D.	0.5	4338124 ug/l	88		77-127		
Benzene	N.D.	0.5	ug/l	92		85-117		
Toluene	N.D.	0.5	ug/l	92		85-115		
Ethylbenzene	N.D.	0.5	ug/l	93		82-119		
Xylene (Total)	N.D.	0.5	ug/l	91		83-113		
Batch number: Z042431AA Ethanol	N.D.	50.	4338125-4338127 ug/l	97		46-145		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	91		77-127		
Benzene	N.D.	0.5	ug/l	95		85-117		
Toluene	N.D.	0.5	ug/l	95		85-115		
Ethylbenzene	N.D.	0.5	ug/l	94		82-119		
Xylene (Total)	N.D.	0.5	ug/l	94		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: 04237A53B TPH-GRO - Waters	113		4338124-4338127 63-154						
Batch number: Z042411AA Methyl Tertiary Butyl Ether	90	89	4338124 69-134	2	30				
Benzene	94	95	83-128	2	30				
Toluene	97	97	83-127	0	30				
Ethylbenzene	96	97	82-129	2	30				
Xylene (Total)	95	95	82-130	1	30				
Batch number: Z042431AA Ethanol	87	103	4338125-4338127 33-153	17	30				
Methyl Tertiary Butyl Ether	91	91	69-134	0	30				
Benzene	96	96	83-128	1	30				
Toluene	97	99	83-127	1	30				
Ethylbenzene	99	98	82-129	0	30				
Xylene (Total)	97	97	82-130	1	30				

\*- 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: 08/31/04 at 04:22 PM

Group Number: 909279

### Surrogate Quality Control

 Analysis Name: TPH-GRO - Waters  
 Batch number: 04237A53E  
 Trifluorotoluene-F

4338124	108
4338125	106
4338126	107
4338127	122
Blank	100
LCS	102
LCS D	105
MS	108

Limits: 57-146

 Analysis Name: BTEX+MTBE by 8260B  
 Batch number: 2042411AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4338124	96	98	94	92
Blank	95	98	95	91
LCS	95	97	95	96
MS	94	99	95	94
MSD	94	97	94	95

Limits: 81-120                      82-112                      85-112                      83-113

 Analysis Name: BTEX+5 Oxygenates+EDC+EDB+ETOH  
 Batch number: 2042431AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4338125	96	99	94	91
4338126	97	99	95	91
4338127	97	99	94	92
Blank	95	97	94	91
LCS	95	98	94	94
MS	95	98	94	95
MSD	96	98	94	95

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

<b>A</b>	TIC is a possible aldol-condensation product
<b>B</b>	Analyte was also detected in the blank
<b>C</b>	Pesticide result confirmed by GC/MS
<b>D</b>	Compound quantitated on a diluted sample
<b>E</b>	Concentration exceeds the calibration range of the instrument
<b>N</b>	Presumptive evidence of a compound (TICs only)
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$
<b>U</b>	Compound was not detected
<b>X,Y,Z</b>	Defined in case narrative

### Inorganic Qualifiers

<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>E</b>	Estimated due to interference
<b>M</b>	Duplicate injection precision not met
<b>N</b>	Spike sample not within control limits
<b>S</b>	Method of standard additions (MSA) used for calculation
<b>U</b>	Compound was not detected
<b>W</b>	Post digestion spike out of control limits
<b>*</b>	Duplicate analysis not within control limits
<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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