



# GETTLER-RYAN INC.

**TRANSMITTAL** Alameda County

September 17, 2003

G-R #386493

OCT 01 2003

Environmental Health

TO: Ms. Karen Streich  
Chevron Products Company  
P.O. Box 6004  
San Ramon, California 94583

CC: Mr. Bob Foss  
Cambria Environmental, Inc.  
5900 Hollis Street, Suite A  
Emeryville, California 94608

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

RE: **Former Chevron Service Station**  
**#9-0329**  
**340 Highland Avenue**  
**Piedmont, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	September 16, 2003	Groundwater Monitoring and Sampling Report Third Quarter - Event of August 18, 2003

COMMENTS:

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **October 1, 2003**, at which time the final report will be distributed to the following:

- cc: Mr. Chuck Headlee, RWQCB-S.F. Bay Region, 1515 Clay Street, Suite 1400, Oakland, CA 94612
- Mr. Scott Seery, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
- Mr. John M. Robinson, Hoffman Investment Co., 1035 Edwards Road, Burlingame, CA 94010
- Mr. Ravi Randawa, Texaco Service Station, 340 Highland, Ave, Piedmont, CA 94611
- Mr. Jon Robbins, Chevron Products Law, P.O. Box 6004, Building T, Room T-4284, San Ramon, CA 94583 (w/o attachments)

Enclosures

trans/9-0329-KS



# GETTLER - RYAN INC.

September 16, 2003  
G-R Job #386493

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

**RE: Third Quarter Event of August 18, 2003**  
Groundwater Monitoring & Sampling Report  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, 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.

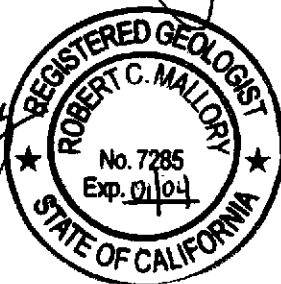
Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached.

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

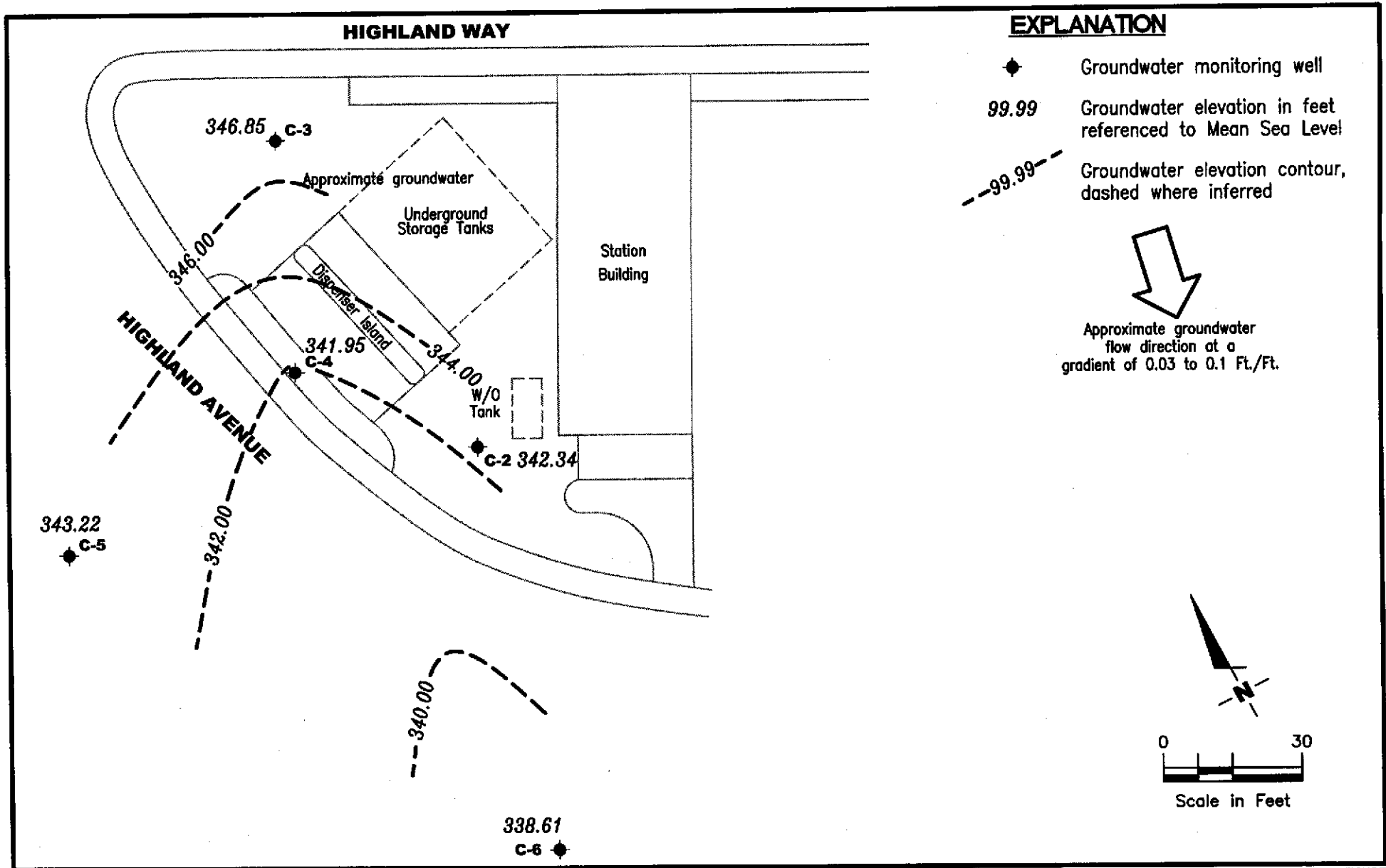
Sincerely,

Deanna L. Harding  
Project Coordinator

Robert C. Mallory  
Registered Geologist, No. 7285



- Figure 1: Potentiometric Map
- Table 1: Groundwater Monitoring Data and Analytical Results
- Table 2: Groundwater Analytical Results - Oxygenate Compounds
- 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**  
 Former Chevron Service Station #9-0329  
 340 Highland Avenue  
 Piedmont, California

FIGURE  
**1**

JOB NUMBER  
 386493

REVIEWED BY

DATE  
 August 18, 2003

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
C-2 94.19	08/07/89	2.88	91.31	34,000	580	60	170	270	--
	11/15/89	2.80	91.39	8,100	500	36	420	180	--
	02/01/91	3.75	90.44	6,800	490	21	310	86	--
	04/16/91	2.55	91.64	9,600	810	43	550	270	--
	10/16/91	3.52	90.67	7,100	320	23	200	60	--
	01/08/92	4.15	90.04	2,400	190	9.0	83	22	--
	04/10/92	2.96	91.23	6,600	550	33	340	170	--
	07/14/92	2.83	91.36	9,000	680	330	580	690	--
	10/05/92	4.38	89.81	5,500	250	17	130	82	--
	01/06/93	3.94	90.25	5,500	190	32	41	54	--
	03/29/93	2.09	92.10	19,000	670	40	180	370	--
	07/02/93	2.09	92.10	8,000	1,100	41	420	500	--
	10/11/93	2.76	91.43	42,000	940	34	140	87	--
	01/10/94	4.82	89.37	12,000	770	20	220	74	--
	04/06/94	2.49	91.70	40,000	820	33	190	110	--
	07/06/94	2.47	91.72	8,800	870	28	140	95	--
	11/11/94	2.87	91.32	8,600	460	81	180	120	--
	01/06/95	2.55	91.64	15,000	880	48	270	140	--
	04/13/95	2.06	92.13	56,000	2,500	130	730	360	--
	07/25/95	2.14	92.05	11,000	1,000	34	540	160	--
	10/05/95	2.51	91.68	13,000	1,000	<20	160	170	--
	01/02/96	2.22	91.97	9,500	1,300	<50	380	87	64,000
	04/11/96	1.92	92.27	<10,000	1,300	<100	<100	<100	<100
07/08/96	2.05	92.14	<20,000	1,200	<200	<200	<200	<200	110,000
10/03/96	2.29	91.90	<25,000	1,200	<250	<250	<250	<250	140,000
343.39	01/23/97	1.90	341.49	20,000	1,100	<200	460	<200	110,000
	02/14/97	1.97	341.42	--	--	--	--	--	150,000 <sup>1</sup>
	04/08/97	2.27	341.12	<50,000	1,100	<500	<500	<500	160,000
	07/09/97	1.98	341.41	<50,000	1,300	<500	<500	<500	210,000
	10/08/97	2.30	341.09	18,000	1,400	<50	300	95	160,000
	01/22/98	1.68	341.71	10,000	860	10	140	37	70,000
	04/15/98	1.20	342.19	<10,000	1,400	<100	510	<100	46,000
	07/09/98	1.47	341.92	33,000	1,700	<50	650	<50	120,000

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
C-2 (cont)	10/02/98	2.13	341.26	11,000	920	11	130	76	100,000
	01/18/99	1.84	341.55	<25,000	1,770	<250	<250	<250	48,400/78,300 <sup>1</sup>
	04/19/99	1.17	342.22	9,900	1,110	26.6	455	82	33,300
	09/28/99	2.81	340.58	11,500	1,100	<50	93.9	53.1	26,200
	10/27/99	2.98	340.41	9,440	711	<20	74.9	42.4	17,500
	01/17/00	2.35	341.04	12,200	813	<50	133	<50	21,200
	04/11/00	1.31	342.08	210 <sup>4</sup>	26	<0.50	3.7	1.1	580
	07/12/00	1.79	341.60	18,100 <sup>5</sup>	1,350	480	800	1,240	19,200
	10/07/00	1.70	341.69	8,860 <sup>5</sup>	1,070	<20.0	406	90.5	20,000
	01/05/01	1.57	341.82	14,000 <sup>4</sup>	2,000	55	560	120	17,000
	04/05/01	1.37	342.02	4,900 <sup>4</sup>	330	38	120	32	1,200
	08/20/01	2.52	340.87	7,300	1,100	42	290	55	7,200
	11/26/01	1.35	342.04	9,500	650	13	66	44	3,100
	02/25/02	0.82	342.57	5,300	340	6.9	83	22	1,200/1,400 <sup>7</sup>
	05/17/02	1.85	341.54	6,300	160	5.1	45	14	5,100
	08/13/02	1.95	341.44	8,800	670	16	380	73	3,700
	11/23/02	1.62	341.77	9,400	490	11	250	47	1,900
	02/17/03	0.65	342.74	7,000	340	9.9	160	35	4,200/3,800 <sup>7</sup>
	05/19/03 <sup>8</sup>	0.92	342.47	2,500	390	8	90	26	6,000
	08/18/03 <sup>8</sup>	1.05	342.34	6,400	300	7	62	23	3,500
C-3 97.65	08/07/89	4.29	93.36	<50	<0.5	<1.0	<1.0	<3.0	--
	11/15/89	5.17	92.48	<500	<0.5	2.8	<0.5	1.1	--
	02/01/91	6.38	91.27	<50	<0.5	<0.5	<0.5	<0.5	--
	04/16/91	3.72	93.93	<50	<0.5	<0.5	<0.5	<0.5	--
	10/16/91	8.20	89.45	<50	<0.5	<0.5	<0.5	<0.5	--
	01/08/92	6.68	90.97	<50	<0.5	<0.5	<0.5	<0.5	--
	04/10/92	4.50	93.15	<50	<0.5	<0.5	<0.5	<0.5	--
	07/14/92	6.21	91.44	<50	<0.5	<0.5	<0.5	<0.5	--
	10/05/92	9.31	88.34	<50	<0.5	<0.5	<0.5	<0.5	--
	01/06/93	3.41	94.24	<50	<0.5	<0.5	<0.5	<0.5	--
	03/29/93	0.50	97.15	<50	<0.5	<0.5	<0.5	0.8	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

WELL ID/ TOC*(fL)	DATE	DTW (fL)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
C-3	07/02/93	2.59	95.06	<50	4.0	3.0	<0.5	3.0	--
(cont)	10/11/93	4.90	92.75	<50	<0.5	<0.5	<0.5	<0.5	--
	01/10/94	4.39	93.26	<50	<0.5	1.0	<0.5	0.8	--
	04/06/94	2.68	94.97	<50	<0.5	1.0	0.7	4.5	--
	07/06/94	2.10	95.55	<50	2.2	4.1	<0.5	2.8	--
	11/11/94	1.23	96.42	<50	<0.5	0.8	<0.5	<0.5	--
	01/06/95	0.60	97.05	<50	<0.5	<0.5	<0.5	<0.5	--
	04/13/95	0.60	97.05	<50	<0.5	<0.5	<0.5	<0.5	--
	07/25/95	1.65	96.00	<50	<0.5	<0.5	<0.5	<0.5	--
	10/05/95	3.63	94.02	<50	<0.5	<0.5	<0.5	<0.5	--
	01/02/96	3.12	94.53	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	04/11/96	0.82	96.83	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	07/08/96	1.50	96.15	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	10/03/96	2.48	95.17	<50	<0.5	<0.5	<0.5	<0.5	<2.5
347.08	01/23/97	0.21	346.87	<50	<0.5	<0.5	<0.5	<0.5	3.2
	04/08/97	0.75	346.33	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	07/09/97	1.47	345.61	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	10/08/97	2.04	345.04	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	01/22/98	FLOODED	--	<50	<0.5	<0.5	<0.5	<0.5	40
	04/15/98	FLOODED	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
347.20	05/13/98 <sup>2</sup>	--	--	--	--	--	--	--	--
	07/09/98	0.47	346.73	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	10/02/98	0.98	346.22	<50	<0.5	<0.5	<0.5	<1.5	<2.5
	01/18/99	0.77	346.43	<50	<0.5	<0.5	<0.5	<1.5	<2.0
	04/19/99	0.53	346.67	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	07/19/99	0.81	346.39	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/27/99	1.47	345.73	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	01/17/00	0.94	346.26	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	04/11/00	0.30	346.90	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	07/12/00	0.42	346.78	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
	10/07/00	1.01	346.19	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
	01/05/01	1.38	345.82	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	04/05/01	0.35	346.85	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	08/20/01	0.80	346.40	<50	<0.50	<0.50	<0.50	<0.50	<2.5

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
C-3	11/26/01	0.36	346.84	<50	<0.50	<0.50	<0.50	<1.5	<2.5
(cont)	02/25/02	0.36	346.84	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>7</sup>
	05/17/02	0.45	346.75	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	08/13/02	1.11	346.09	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	11/23/02	1.49	345.71	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	02/17/03	0.51	346.69	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5 <sup>7</sup>
	05/19/03 <sup>8</sup>	0.30	346.90	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	08/18/03 <sup>8</sup>	0.35	346.85	<50	<0.5	<0.5	<0.5	<0.5	<0.5
C-4									
95.60	08/07/89	DRY	--	--	--	--	--	--	--
	11/15/89	4.95	90.65	1300	2.9	310	0.5	2.9	--
	02/01/91	4.78	90.82	72	<0.5	9.0	<0.5	<0.5	--
	04/16/91	4.83	90.77	<50	<0.5	<0.5	<0.5	<0.5	--
	10/16/91	4.23	91.37	<50	<0.5	<0.5	<0.5	<0.5	--
	01/08/92	4.81	90.79	<50	<0.5	<0.5	<0.5	<0.5	--
	04/10/92	4.26	91.34	<50	<0.5	<0.5	<0.5	<0.5	--
	07/14/92	4.28	91.32	<50	<0.5	3.8	<0.5	<0.5	--
	10/05/92	4.29	91.31	<50	<0.5	<0.5	<0.5	<0.5	--
	01/06/93	4.29	91.31	<50	0.7	<0.5	<0.5	<0.5	--
	03/29/93	4.30	91.30	<50	0.5	1.0	<0.5	2.0	--
	07/02/93	4.22	91.38	<50	<0.5	<0.5	<0.5	<0.5	--
	10/11/93	4.30	91.30	<50	0.6	<0.5	<0.5	<0.5	--
	01/10/94	4.44	91.16	<50	0.7	3.0	<0.5	1.0	--
	04/06/94	4.24	91.36	130	2.2	5.4	3.3	24	--
	07/06/94	4.24	91.36	99	5.9	7.5	2.0	12	--
	11/11/94	4.21	91.39	<50	<0.5	9.5	<0.5	<0.5	--
	01/06/95	4.42	91.18	<50	0.7	1.0	<0.5	1.1	--
	04/13/95	4.24	91.36	67	0.54	7.2	<0.5	1.1	--
	07/25/95	4.24	91.36	390	<2.0	150	<2.0	<2.0	--
	10/05/95	4.38	91.22	130	<0.5	66	<0.5	<0.5	--
	01/02/96	4.26	91.34	<50	<0.5	<0.5	<0.5	<0.5	34
	04/11/96	4.39	91.21	<50	<0.5	0.93	<0.5	<0.5	56

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
C-4	07/08/96	4.28	91.32	<50	<0.5	<0.5	<0.5	<0.5	21
(cont)	10/03/96	4.22	91.38	80	<0.5	31	<0.5	<0.5	9.9
344.94	01/23/97	4.39	340.55	<50	<0.5	<0.5	<0.5	<0.5	23
	04/08/97	4.25	340.69	87	<0.5	3.6	<0.5	1.7	7.0
	07/09/97	4.21	340.73	93	<0.5	32	<0.5	<0.5	26
	10/08/97	4.34	340.60	<50	<0.5	0.63	<0.5	<0.5	12
	01/22/98	4.26	340.68	<50	<0.5	4.3	<0.5	<0.5	10
	04/15/98	1.01	343.93	SAMPLED SEMI-ANNUALLY		--	--	--	--
	07/09/98	4.25	340.69	<50	<0.5	<0.5	<0.5	<0.5	37
	10/02/98	4.35	340.59	--	--	--	--	--	--
	01/18/99	4.21	340.73	<50	<0.5	<0.5	<0.5	<0.5	25.4
	04/19/99	2.31	342.63	--	--	--	--	--	--
	07/19/99 <sup>3</sup>	1.53	343.41	10,000	1,160	23	178	50.4	45,600
	09/28/99	4.70	340.24	<50	<0.5	0.919	<0.5	<0.5	<2.5
	10/27/99	1.26	343.68	--	--	--	--	--	--
	01/17/00	4.22	340.72	<50	<0.5	21.4	<0.5	<0.5	4.6
	04/11/00	4.21	340.73	--	--	--	--	--	--
	07/12/00	4.21	340.73	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
	10/07/00	4.23	340.71	--	--	--	--	--	--
	01/05/01	4.22	340.72	<50	<0.50	<0.50	<0.50	<0.50	27
	04/05/01	4.23	340.71	--	--	--	--	--	--
	08/20/01	4.27	340.67	<50	<0.50	<0.50	<0.50	<0.50	18
	11/26/01	4.26	340.68	SAMPLED SEMI-ANNUALLY		--	--	--	--
	02/25/02	4.25	340.69	<50	<0.50	1.8	<0.50	<1.5	24/24 <sup>7</sup>
	05/17/02	3.30	341.64	SAMPLED SEMI-ANNUALLY		--	--	--	--
	08/13/02	4.10	340.84	<50	<0.50	<0.50	<1.0	<1.5	7.3
	11/23/02	3.04	341.90	SAMPLED SEMI-ANNUALLY		--	--	--	--
	02/17/03	2.12	342.82	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5 <sup>7</sup>
	05/19/03	2.57	342.37	SAMPLED SEMI-ANNUALLY		--	--	--	--
	<b>08/18/03<sup>8</sup></b>	<b>2.99</b>	<b>341.95</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

WELL ID/ TOC* (fL)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
C-5 345.14	11/25/96	3.30	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	
	01/23/97	1.45	343.69	<50	<0.5	<0.5	<0.5	<0.5	<2.5	
	04/08/97	2.32	342.82	<50	<0.5	<0.5	<0.5	<0.5	<2.5	
	07/09/97	2.30	342.84	<50	<0.5	<0.5	<0.5	<0.5	<2.5	
	10/08/97	3.00	342.14	<50	<0.5	<0.5	<0.5	<0.5	<2.5	
	01/22/98	1.00	344.14	<50	<0.5	<0.5	<0.5	<0.5	<2.5	
	04/15/98	3.25	341.89	SAMPLED ANNUALLY			--	--	--	--
	07/09/98	0.20	344.94	--	--	--	--	--	--	
	10/02/98	2.32	342.82	--	--	--	--	--	--	
	01/18/99	2.13	343.01	<50	<0.5	<0.5	<0.5	<0.5	<2.0	
	04/19/99	2.07	343.07	--	--	--	--	--	--	
	07/19/99	2.42	342.72	--	--	--	--	--	--	
	10/27/99	2.37	342.77	--	--	--	--	--	--	
	01/17/00	2.50	342.64	<50	<0.5	<0.5	<0.5	<0.5	<2.5	
	04/11/00	2.18	342.96	--	--	--	--	--	--	
	07/12/00	2.08	343.06	--	--	--	--	--	--	
	10/07/00	2.38	342.76	--	--	--	--	--	--	
	01/05/01	2.13	343.01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
	04/05/01	1.80	343.34	--	--	--	--	--	--	
	08/20/01	2.08	343.06	--	--	--	--	--	--	
	11/26/01	2.25	342.89	SAMPLED ANNUALLY			--	--	--	--
	02/25/02	2.80	342.34	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>7</sup>	
	05/17/02	1.81	343.33	SAMPLED ANNUALLY			--	--	--	--
08/13/02	1.82	343.32	SAMPLED ANNUALLY			--	--	--	--	
11/23/02	2.36	342.78	SAMPLED ANNUALLY			--	--	--	--	
02/17/03	1.89	343.25	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5 <sup>7</sup>		
05/19/03	1.91	343.23	SAMPLED ANNUALLY			--	--	--	--	
<b>08/18/03</b>	<b>1.92</b>	<b>343.22</b>	<b>SAMPLED ANNUALLY</b>			--	--	--	--	
C-6 338.61	11/25/96	2.13	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	
	01/23/97	FLOODED	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	
	04/08/97	FLOODED	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	
	07/09/97	2.77	335.84	<50	<0.5	<0.5	<0.5	<0.5	<2.5	

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
C-6	10/08/97	1.44	337.17	<50	<0.5	<0.5	<0.5	<0.5	<2.5
(cont)	01/22/98	1.54	337.07	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	04/15/98	1.30	337.31	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	07/09/98	FLOODED	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	10/02/98	2.80	335.81	<50	<0.5	<0.5	<0.5	<1.5	<2.5
	01/18/99	1.29	337.32	<50	<0.5	<0.5	<0.5	<0.5	<2.0
	04/19/99	1.31	337.30	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	07/19/99	1.56	337.05	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/27/99	1.45	337.16	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	01/17/00	1.65	336.96	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	04/11/00	1.56	337.05	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	07/12/00	1.01	337.60	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
	10/07/00	1.19	337.42	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
	01/05/01	0.87	337.74	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	04/05/01	0.32	338.29	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	08/20/01	-- <sup>6</sup>	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	11/26/01	0.76	337.85	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	02/25/02	-- <sup>6</sup>	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/ <sup>2</sup>
	05/17/02	-- <sup>6</sup>	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	08/13/02	0.90	337.71	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	11/23/02	1.03	337.58	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	02/17/03	0.85	337.76	<50	<0.50	<0.50	<0.50	<1.5	<2.5/ <sup>5</sup>
	05/19/03 <sup>8</sup>	-- <sup>6</sup>	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	08/18/03 <sup>8</sup>	0.00	338.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5
<b>Backfill Well: A</b>									
	08/07/89	2.10	--	1,000	50	6.0	5.0	22	--
	11/15/89	2.04	--	3,700	98	2.1	4.3	55	--
	02/01/91	3.05	--	36,000	1,100	750	130	6,100	--
	04/16/91	2.01	--	8,000	370	6.0	86	750	--
	10/16/91	4.15	--	--	--	--	--	--	--

NOT MONITORED/SAMPLED

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>Backfill Well: B</b>									
	08/07/89	4.12	--	--	--	--	--	--	--
	11/15/89	--	--	--	--	--	--	--	--
	02/01/91	5.03	--	--	--	--	--	--	--
	04/16/91	4.00	--	--	--	--	--	--	--
	10/16/91	6.24	--	--	--	--	--	--	--
	NOT MONITORED/SAMPLED								
<b>Trip Blank</b>									
TB-LB	01/06/93	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	03/29/93	--	--	<50	<0.5	<0.5	<0.5	1.0	--
	07/02/93	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	10/11/93	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	01/10/94	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	04/06/94	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	07/06/94	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	11/11/94	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	01/06/95	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	04/13/95	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	07/25/95	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	10/05/95	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	01/02/96	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	04/11/96	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	07/08/96	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	10/03/96	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	01/23/97	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	04/08/97	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	07/09/97	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	10/08/97	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	01/22/98	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	07/09/98	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	10/02/98	--	--	<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

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
TB-LB (cont)	04/19/99	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	07/19/99	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/27/99	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	01/17/00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	04/11/00	--	--	<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
	10/07/00	--	--	<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
QA	11/26/01	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	02/25/02	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	05/17/02	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	08/13/02	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	11/23/02	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	02/17/03	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	05/19/03 <sup>B</sup>	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	08/18/03 <sup>B</sup>	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

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**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to April 11, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing

(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

(msl) = Mean sea level

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

\* TOC elevations are relative to msl.

<sup>1</sup> MTBE confirmation run.

<sup>2</sup> TOC elevation adjusted due to broken top of casing.

<sup>3</sup> Anomalous results: Results for this sample are likely the result of a mislabeling of sample containers; results most closely resemble those of well C-2.

<sup>4</sup> Laboratory report indicates gasoline C6-C12.

<sup>5</sup> Laboratory report indicates weathered gasoline C6-C12.

<sup>6</sup> Unable to determine DTW, water overflowing TOC.

<sup>7</sup> MTBE by EPA Method 8260.

<sup>8</sup> BTEX and MTBE by EPA Method 8260.

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
C-2	02/25/02	<500	210	1,400	<2	2	97	<2	<2
	02/17/03	--	890	3,800	<1	6	110	<1	<1
	05/19/03	--	--	6,000	--	--	--	--	--
	08/18/03	<250	--	3,500	--	--	--	--	--
C-3	02/25/02	<500	<100	<2	<2	<2	<2	<2	<2
	02/17/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	05/19/03	--	--	<0.5	--	--	--	--	--
	08/18/03	<50	--	<0.5	--	--	--	--	--
C-4	02/25/02	<500	<100	24	<2	<2	<2	<2	<2
	02/17/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	05/19/03	SAMPLED SEMI-ANNUALLY		--	--	--	--	--	--
	08/18/03	<50	--	<0.5	--	--	--	--	--
C-5	02/25/02	<500	<100	<2	<2	<2	<2	<2	<2
	02/17/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	05/19/03	SAMPLED ANNUALLY		--	--	--	--	--	--
C-6	02/25/02	<500	<100	<2	<2	<2	<2	<2	<2
	02/17/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	05/19/03	--	--	<0.5	--	--	--	--	--
	08/18/03	<50	--	<0.5	--	--	--	--	--

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California

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**EXPLANATIONS:**

TBA = Tertiary butyl alcohol  
MTBE = Methyl tertiary butyl ether  
DIPE = Di-isopropyl ether  
ETBE = Ethyl tertiary butyl ether  
TAME = Tertiary amyl methyl ether  
1,2-DCA = 1,2-Dichloroethane  
EDB = 1,2-Dibromoethane  
(ppb) = Parts per billion  
-- = Not Analyzed

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

## 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 #9-0329 Job Number: 386493  
 Site Address: 340 Highland Avenue Event Date: 8-18-03 (inclusive)  
 City: Piedmont, CA Sampler: FT

Well ID: C-2  
 Well Diameter: 2 in.  
 Total Depth: 12.24 ft.  
 Depth to Water: 1.05 ft.  
11.16

Date Monitored: 8-18-03 Well Condition: OK

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 .17 = 1.89 x3 (case volume) = Estimated Purge Volume: 5.69 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): 4:12 Weather Conditions: SUNNY  
 Sample Time/Date: 4:24 / 8-18-03 Water Color: CLEAR Odor: 4X/STRONG  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>4:15</u>	<u>2.0</u>	<u>7.12</u>	<u>105.5</u>	<u>24.7</u>	_____	_____
<u>4:18</u>	<u>4.0</u>	<u>7.14</u>	<u>102.5</u>	<u>23.5</u>	_____	_____
<u>4:21</u>	<u>5.5</u>	<u>7.17</u>	<u>99.6</u>	<u>22.1</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>C-2</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 #9-0329 Job Number: 386493  
 Site Address: 340 Highland Avenue Event Date: 8-18-03 (inclusive)  
 City: Piedmont, CA Sampler: FT

Well ID: C-3 Date Monitored: 8-18-03 Well Condition: OK'

Well Diameter: 2 in.

Total Depth: 13.06 ft.

Depth to Water: .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

12.71 xVF .6 = 2.16 x3 (case volume) = Estimated Purge Volume: 6.48 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): 2:21 Weather Conditions: SUNNY  
 Sample Time/Date: 2:36 / 8-18-03 Water Color: CLEAR Odor: NO  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (OF)	D.O. (mg/L)	ORP (mV)
<u>2:24</u>	<u>2.0</u>	<u>6.93</u>	<u>125.1</u>	<u>26.8</u>	_____	_____
<u>2:27</u>	<u>4.0</u>	<u>7.02</u>	<u>121.4</u>	<u>26.8</u>	_____	_____
<u>2:31</u>	<u>6.5</u>	<u>7.05</u>	<u>115.5</u>	<u>24.5</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>C-3</u>	<u>6 x vov 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 #9-0329 Job Number: 386493  
 Site Address: 340 Highland Avenue Event Date: 8-18-03 (inclusive)  
 City: Piedmont, CA Sampler: FT

Well ID: C-4 Date Monitored: 8-18-03 Well Condition: ok!  
 Well Diameter: 2 in.  
 Total Depth: 9.75 ft.  
 Depth to Water: 2.99 ft.  
6.76 xVF 17 = 1.14 x3 (case volume) = Estimated Purge Volume: 3.44 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 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): 2:46 Weather Conditions: SUNNY  
 Sample Time/Date: 3:04 / 8-18-03 Water Color: LT. BRN. Odor: NO  
 Purging Flow Rate: 1 gpm. Sediment Description: SILTY  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>2:49</u>	<u>1.0</u>	<u>7.03</u>	<u>86.5</u>	<u>22.1</u>	_____	_____
<u>2:53</u>	<u>2.0</u>	<u>7.02</u>	<u>86.3</u>	<u>21.6</u>	_____	_____
<u>2:58</u>	<u>3.5</u>	<u>7.05</u>	<u>85.2</u>	<u>21.7</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>C-4</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 #9-0329  
 Site Address: 340 Highland Avenue  
 City: Piedmont, CA

Job Number: 386493  
 Event Date: 8-18-03 (inclusive)  
 Sampler: FT

Well ID: C-5  
 Well Diameter: 2 in.  
 Total Depth: 17.32 ft.  
 Depth to Water: 1.92 ft.  
NA xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 8-18-03

Well Condition: TWO FLANGES BROKEN (SEE PHOTO)

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 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): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: 1 Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 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
C-	x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/ETHANOL(8260)

COMMENTS: "MONITORED ONLY"

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-0329 Job Number: 386493  
 Site Address: 340 Highland Avenue Event Date: 8.15.03 (inclusive)  
 City: Piedmont, CA Sampler: FT

Well ID: C-6 Date Monitored: 8.15.03 Well Condition: old  
 Well Diameter: 2 in.  
 Total Depth: 17.21 ft.  
 Depth to Water: .00 ft.  
17.21 x VF .17 = 2.93 x3 (case volume) = Estimated Purge Volume: 8.77 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 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): 3:22 Weather Conditions: SUNNY  
 Sample Time/Date: 3:50 / 8.18.03 Water Color: CLEAR Odor: NO  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>3:29</u>	<u>3.0</u>	<u>7.31</u>	<u>97.2</u>	<u>21.5</u>	_____	_____
<u>3:35</u>	<u>6.0</u>	<u>7.34</u>	<u>98.1</u>	<u>20.9</u>	_____	_____
<u>3:42</u>	<u>9.0</u>	<u>7.35</u>	<u>96.7</u>	<u>20.1</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

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

# Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only  
 Acct. #: 10404 Sample #: 4105977-21 ser#: 864015

082003-002

Facility #: SS#9-0329 G-R#386493 Global ID#T0600101885  
 Site Address: 340 HIGHLAND AVE., PIEDMONT, CA  
 Chevron PM: KS 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: FRANK TERMINONI  
 Service Order #: \_\_\_\_\_  Non SAR:

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

**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	Oxygenates	Lead 7420	7421	ETHANOL (8260)
QA	8-18-03					W			2	XX							
C-2	↓	1624	X			↓			6	XX							XX
C-3	↓	1436	X			↓			6	XX							XX
C-4	↓	1504	X			↓			6	XX							XX
C-6	↓	1550	X			↓			6	XX							XX

**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>Frank Terminoni</u>	Date: <u>8-18-03</u>	Time: _____	Received by: <u>DW</u>	Date: <u>8/20/03</u>	Time: <u>1400</u>
Relinquished by: <u>DW</u>	Date: <u>8/20/03</u>	Time: <u>1400</u>	Received by: <u>Andreas Amay</u>	Date: <u>8/20/03</u>	Time: <u>1400</u>
Relinquished by: <u>Andreas Amay</u>	Date: <u>8/20/03</u>	Time: <u>1530</u>	Received by: <u>Airborne</u>	Date: <u>8/20/03</u>	Time: _____
Relinquished by Commercial Carrier: <u>Airborne</u>	UPS      FedEx      Other <u>Airborne</u>	Temperature Upon Receipt: <u>3.0c</u>	Received by: <u>Janie</u>	Date: <u>8/20/03</u>	Time: _____
			Custody Seals Intact? <u>Yes</u> No		

**ANALYTICAL RESULTS**

Prepared for:

ChevronTexaco  
6001 Bollinger Canyon Rd L4310San Ramon CA 94583  
925-842-8582

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425**SAMPLE GROUP**

The sample group for this submittal is 864015. Samples arrived at the laboratory on Thursday, August 21, 2003. The PO# for this group is 99011184 and the release number is STREICH.

<u>Client Description</u>		<u>Lancaster Labs Number</u>
QA-T-030818	NA Water	4105977
C-2-W-030818	Grab Water	4105978
C-3-W-030818	Grab Water	4105979
C-4-W-030818	Grab Water	4105980
C-6-W-030818	Grab Water	4105981

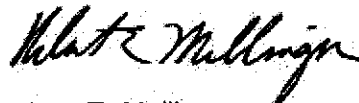
ELECTRONIC      Gettler-Ryan  
COPY TO  
1 COPY TO      Cambria C/O Gettler- Ryan

Attn: Cheryl Hansen

Attn: Deanna L. Harding

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

Respectfully Submitted,



Robert E. Mellinger  
Senior Chemist, Coordinator



**Lancaster Laboratories Sample No. WW 4105977**

Collected: 08/18/2003 00:00

Account Number: 10904

Submitted: 08/21/2003 09:30

ChevronTexaco

Reported: 09/05/2003 at 16:56

6001 Bollinger Canyon Rd L4310

Discard: 10/06/2003

QA-T-030818

NA

Water

San Ramon CA 94583

Facility# 90329 Job# 386493

GRD

340 Highland Piedmont T0600101885 QA

885TB

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. 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	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	08/22/2003	14:44	K. Robert Caulfeild-James	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	08/23/2003	23:04	Elizabeth M Taylor	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/22/2003	14:44	K. Robert Caulfeild-James	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/23/2003	23:04	Elizabeth M Taylor	n.a.

**Lancaster Laboratories Sample No. WW 4105978**

Collected: 08/18/2003 16:24 by FT

Account Number: 10904

Submitted: 08/21/2003 09:30

ChevronTexaco

Reported: 09/05/2003 at 16:56

6001 Bollinger Canyon Rd L4310

Discard: 10/06/2003

C-2-W-030818

Grab

Water

San Ramon CA 94583

Facility# 90329 Job# 386493

GRD

340 Highland Piedmont T0600101885 C-2

885C2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	6,400.	250.	ug/l	5
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.	250.	ug/l	5
02010	Methyl Tertiary Butyl Ether	1634-04-4	3,500.	25.	ug/l	50
05401	Benzene	71-43-2	300.	3.	ug/l	5
05407	Toluene	108-88-3	7.	3.	ug/l	5
05415	Ethylbenzene	100-41-4	62.	3.	ug/l	5
06310	Xylene (Total)	1330-20-7	23.	3.	ug/l	5
The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.						

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	08/22/2003 16:16	K. Robert Caulfeild-James	5
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	08/23/2003 23:35	Elizabeth M Taylor	5
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	08/24/2003 00:05	Elizabeth M Taylor	50
01146	GC VOA Water Prep	SW-846 5030B	1	08/22/2003 16:16	K. Robert Caulfeild-James	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/23/2003 23:35	Elizabeth M Taylor	n.a.

**Lancaster Laboratories Sample No. WW 4105979**

Collected: 08/18/2003 14:36 by FT

Account Number: 10904

Submitted: 08/21/2003 09:30

ChevronTexaco

Reported: 09/05/2003 at 16:57

6001 Bollinger Canyon Rd L4310

Discard: 10/06/2003

C-3-W-030818

Grab

Water

San Ramon CA 94583

Facility# 90329 Job# 386493

GRD

340 Highland Piedmont T0600101885 C-3

885C3

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. 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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	08/22/2003 16:47	K. Robert Caulfeild-James	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	08/24/2003 14:39	Elizabeth M Taylor	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/22/2003 16:47	K. Robert Caulfeild-James	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/24/2003 14:39	Elizabeth M Taylor	n.a.

**Lancaster Laboratories Sample No. WW 4105980**

Collected: 08/18/2003 15:04 by FT

Account Number: 10904

Submitted: 08/21/2003 09:30

ChevronTexaco

Reported: 09/05/2003 at 16:57

6001 Bollinger Canyon Rd L4310

Discard: 10/06/2003

C-4-W-030818

Grab

Water

San Ramon CA 94583

Facility# 90329 Job# 386493

GRD

340 Highland Piedmont T0600101885 C-4

885C4

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. 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	08/22/2003 17:17	K. Robert Caulfeild-James	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	08/24/2003 15:09	Elizabeth M Taylor	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/22/2003 17:17	K. Robert Caulfeild-James	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/24/2003 15:09	Elizabeth M Taylor	n.a.

**Lancaster Laboratories Sample No. WW 4105981**

Collected: 08/18/2003 15:50 by FT

Account Number: 10904

Submitted: 08/21/2003 09:30

ChevronTexaco

Reported: 09/05/2003 at 16:57

6001 Bollinger Canyon Rd L4310

Discard: 10/06/2003

C-6-W-030818

Grab

Water

San Ramon CA 94583

Facility# 90329 Job# 386493

GRD

340 Highland Piedmont T0600101885 C-6

885C6

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. 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

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CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	08/22/2003 17:48	K. Robert Caulfeild-James	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	08/24/2003 16:41	Elizabeth M Taylor	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/22/2003 17:48	K. Robert Caulfeild-James	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/24/2003 16:41	Elizabeth M Taylor	n.a.

## Quality Control Summary

Client Name: ChevronTexaco

Group Number: 864015

Reported: 09/05/03 at 04:57 PM

### 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: 03236A16A TPH-GRO - Waters	N.D.	50.	ug/l	109	103	70-130	6	30
Batch number: P032351AA Ethanol	N.D.	50.	ug/l	94		43-159		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	101		77-127		
Benzene	N.D.	0.5	ug/l	98		85-117		
Toluene	N.D.	0.5	ug/l	101		85-115		
Ethylbenzene	N.D.	0.5	ug/l	101		82-119		
Xylene (Total)	N.D.	0.5	ug/l	103		84-120		
Batch number: P032351AB Ethanol	N.D.	50.	ug/l	94		43-159		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	101		77-127		
Benzene	N.D.	0.5	ug/l	98		85-117		
Toluene	N.D.	0.5	ug/l	101		85-115		
Ethylbenzene	N.D.	0.5	ug/l	101		82-119		
Xylene (Total)	N.D.	0.5	ug/l	103		84-120		
Batch number: P032361AA Ethanol	N.D.	50.	ug/l	80		43-159		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	100		77-127		
Benzene	N.D.	0.5	ug/l	102		85-117		
Toluene	N.D.	0.5	ug/l	101		85-115		
Ethylbenzene	N.D.	0.5	ug/l	98		82-119		
Xylene (Total)	N.D.	0.5	ug/l	102		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: 03236A16A TPH-GRO - Waters	114		70-130						
Batch number: P032351AA Ethanol	86	100	34-163	15	30				
Methyl Tertiary Butyl Ether	103	103	69-134	0	30				
Benzene	110	111	83-128	1	30				
Toluene	108	109	83-127	1	30				
Ethylbenzene	107	110	82-134	3	30				
Xylene (Total)	109	111	82-130	1	30				
Batch number: P032351AB Ethanol	86	100	34-163	15	30				
Methyl Tertiary Butyl Ether	103	103	69-134	0	30				
Benzene	110	111	83-128	1	30				
Toluene	108	109	83-127	1	30				
Ethylbenzene	107	110	82-134	3	30				
Xylene (Total)	109	111	82-130	1	30				
Batch number: P032361AA Ethanol	98	99	34-163	0	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  
Reported: 09/05/03 at 04:57 PM

Group Number: 864015

### Surrogate Quality Control

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4105980	103	101	101	97
Blank	103	100	100	97
LCS	101	101	100	103
MS	102	103	100	103
MSD	102	103	101	104
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

<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 ≥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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