

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

Karen Streich
Project Manager

RO 342

DH

August 1, 2003

ChevronTexaco

Alameda County

AUG 03 2003

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

Environmental Health

Re: Chevron Service Station # 9-4800

Address: 1700 Castro Street, Oakland, CA

July 17, 2003

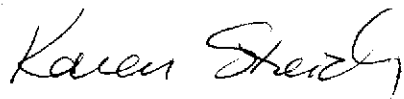
I have reviewed the attached routine groundwater monitoring report dated _____.

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

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

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

Sincerely,



Karen Streich
Project Manager

Enclosure: Report



GETTLER-RYAN INC.

TRANSMITTAL

July 17, 2003

G-R #386383

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

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

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

Alameda County
AUG 05 2003
Environmental Health

RE: Chevron Service Station
#9-4800
1700 Castro Street
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	July 11, 2003	Groundwater Monitoring and Sampling Report Second Quarter - Event of June 17, 2003

COMMENTS:

This report is being sent for your review. Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **July 31, 2003**, at which time the final report will be distributed to the following:

cc: Ms. Eva Chu, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577

Enclosures



GETTLER-RYAN INC.

July 11, 2003
G-R Job #386383

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

RE: Second Quarter Event of June 17, 2003
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-4800
1700 Castro Street
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

Robert C. Mallory
Registered Geologist, No. 7285

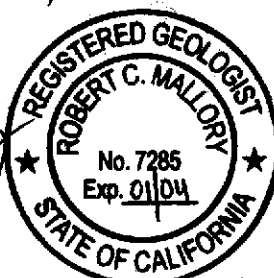
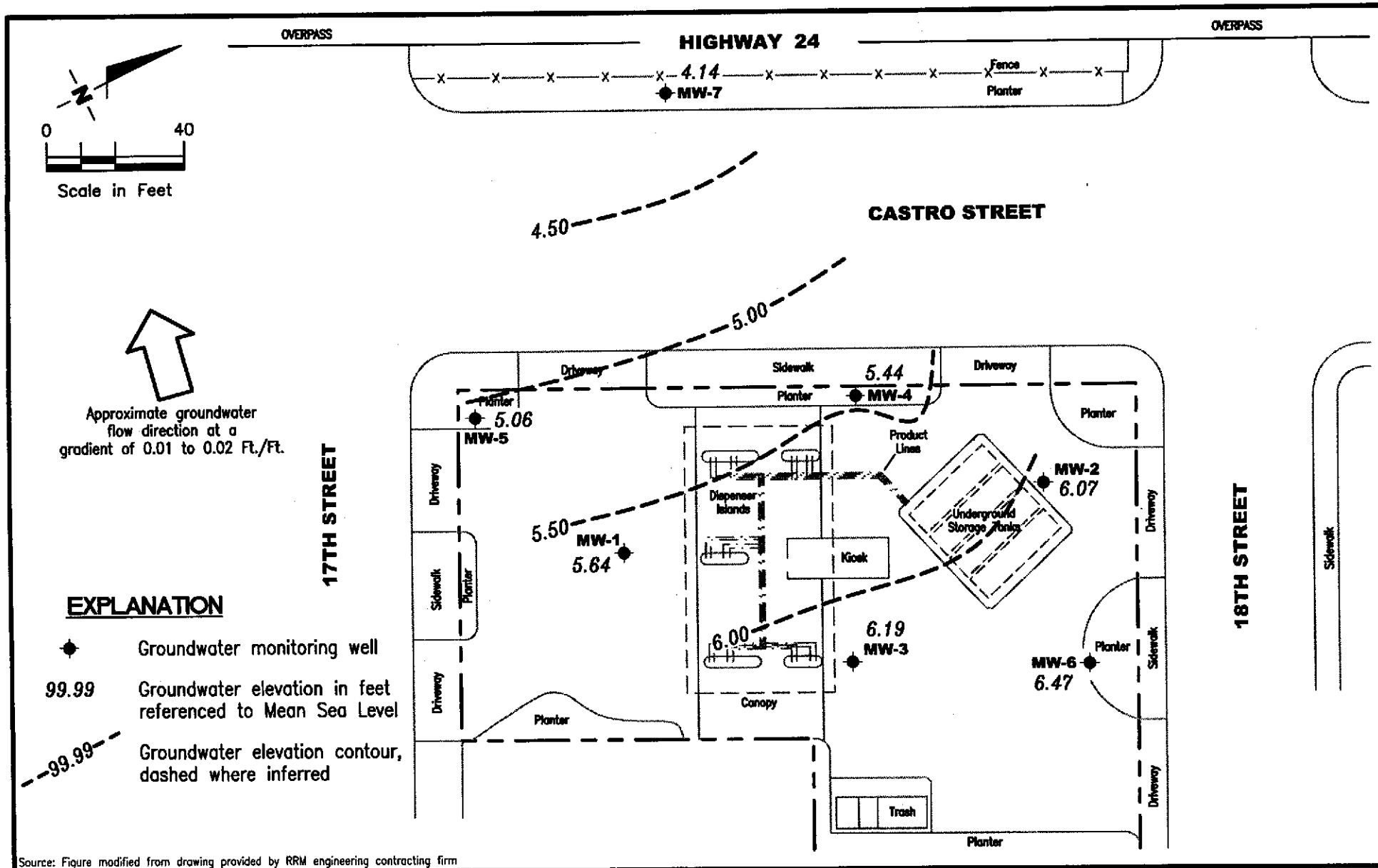


Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Oxygenate Compounds
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



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

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

POTENTIOMETRIC MAP
 Chevron Service Station #9-4800
 1700 Castro Street
 Oakland, California

FIGURE
1

PROJECT NUMBER 386383	REVIEWED BY	DATE June 17, 2003	REVISED DATE
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Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-4800
1700 Castro Street
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1										
06/04/97	30.75	4.39	25.82	71 ¹	890	100	110	29	150	<10
09/16/97	30.75	4.85	25.90	75 ¹	1,600	210	210	60	250	<10
12/17/97	30.75	4.88	25.87	65 ¹	940	120	100	41	160	<25
03/18/98	30.75	5.90	24.85	77 ¹	530	91	39	22	65	6.8
06/28/98	30.75	5.92	24.83	140 ¹	1,100	220	140	37	120	14
09/07/98	30.75	5.56	25.19	280 ¹	1,700	530	86	84	240	49
12/09/98	30.75	5.10	25.65	240 ¹	1,700	240	130	100	270	32
03/11/99	30.75	5.30	25.45	98 ¹	353	53.9	28.6	20.5	56.1	14.1
06/17/99	30.75	5.39	25.36	217 ¹	810	270	150	95	340	15
09/29/99	30.75	5.13	25.62	153 ¹	659	76	49.7	35.1	118	12.6
12/14/99	30.75	5.07	25.68	188 ^{1,2}	2,760	287	199	139	502	<12.5
03/09/00 ³	30.75	5.54	25.21	166 ¹	1,590	238	94.9	72.2	247	22.3
06/10/00	30.75	5.73	25.02	--	1,460	242	47.8	83.8	151	97.3
09/30/00	30.75	5.30	25.45	240 ⁷	650 ⁶	130	49	69	190	21
12/22/00	30.75	5.05	25.70	200 ⁹	640 ⁶	110	33	58	160	68
03/01/01	30.75	5.25	25.50	211 ⁷	1,500 ⁶	210	67.9	109	320	87.3
05/04/01	30.75	5.41	25.34	130 ⁷	991	127	32.6	73.0	137	95.4
09/05/01	30.75	5.16	25.59	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/21/01	30.75	5.17	25.58	210	2,000	220	16	110	400	34
03/15/02	30.75	5.60	25.15	--	--	--	--	--	--	--
06/15/02	30.75	5.49	25.26	140	350	54	0.61	12	40	130
09/06/02	30.75	5.26	25.49	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/06/02	30.75	5.12	25.63	2,900	900	71	2.1	39	150	34
03/03/03	30.75	5.46	25.29	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
06/17/03 ¹⁴	30.75	5.64	25.11	180	290	34	0.6	23	90	92
MW-2										
06/04/97	30.00	5.13	24.87	4,000 ¹	13,000	790	30	420	1,700	4000
09/16/97	30.00	5.06	24.94	2,200 ¹	4,000	360	9.7	210	460	1500
12/17/97	30.00	5.18	24.82	2,100 ¹	4,100	380	<10	200	460	2100
03/18/98	30.00	6.43	23.57	3,700 ¹	8,400	1,800	<50	350	630	13,000
06/28/98 ⁴	30.00	6.21	23.79	4,400 ¹	9,300	740	340	710	2,300	3800

Table 1
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Chevron Service Station #9-4800
1700 Castro Street
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2 (cont)										
09/07/98	30.00	5.78	24.22	3,100 ¹	9,900	1,000	150	640	1,800	4500/4100 ⁵
12/09/98	30.00	5.31	24.69	1,900 ¹	8,500	860	74	610	960	2600/2600 ⁵
03/11/99	30.00	5.79	24.21	2,700 ¹	12,500	1,520	42.2	645	2,250	3400/5050 ⁵
06/17/99	30.00	5.69	24.31	7,150 ¹	27,000	2,200	260	1500	5,900	4700
09/29/99	30.00	5.45	24.55	3,030 ¹	6910	582	11.1	491	1,170	1970
12/14/99	30.00	5.39	24.61	615 ^{1,2}	4230	282	12.3	284	690	631
03/09/00 ³	30.00	6.08	23.92	3,300 ¹	15,300	1,110	39.4	1,040	3,030	2,470
06/10/00	30.00	6.13	23.87	--	7,360	560	40.7	627	1,280	1,260
09/30/00	30.00	5.67	24.33	1,800 ⁷	3,600 ⁶	280	<10	420	430	290
12/22/00	30.00	5.39	24.61	870 ⁹	1,500 ⁶	100	<1.3	160	59	380
03/01/01	30.00	5.79	24.21	1,320 ⁷	2,340 ⁶	171	<5.00	238	157	864
05/04/01	30.00	5.83	24.17	3,100 ⁷	11,900	199	33.9	1,420	290	3,890
09/05/01	30.00	5.45	24.55	2,200	3,300	170	1.7	310	110	1,100
12/21/01	30.00	5.60	24.40	980	1,100	58	0.72	120	14	450
03/15/02	30.00	6.05	23.95	2,200	5,000	250	9.1	470	430	1,800
06/15/02	30.00	5.84	24.16	3,700	5,200	240	5.2	540	210	2,200
09/06/02	30.00	5.59	24.41	2,200	2,100	84	1.4	250	30	1,000
12/06/02	30.00	5.44	24.56	730	780	21	<0.50	58	3.4	480
03/03/03	30.00	5.79	24.21	3,500	4,800	220	1.9	650	46	4,400
06/17/03 ¹⁴	30.00	6.07	23.93	4,100	4,700	140	4	370	84	2,700
MW-3										
06/04/97	31.32	5.27	26.05	<50	190	26	20	1.5	16	8.2
09/16/97	31.32	5.17	26.15	<50	270	58	53	6.1	30	21
12/17/97	31.32	5.22	26.10	<50	290	50	54	8.1	37	21
03/18/98	31.32	6.42	24.90	<50	390	140	33	4.6	30	94
06/28/98	31.32	6.39	24.93	<50	290	90	11	1.6	13	150
09/07/98	31.32	5.97	25.35	<50	170	46	20	4.3	19	120
12/09/98	31.32	5.41	25.91	55 ¹	660	120	93	22	72	150
03/11/99	31.32	5.85	25.47	<50	653	136	69.5	13.7	63.8	144
06/17/99	31.32	5.90	25.42	103 ¹	530	190	110	24	88	210
09/29/99	31.32	5.61	25.71	232 ¹	433	97.8	61.4	16.9	56.6	156

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1700 Castro Street
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3 (cont)										
12/14/99	31.32	5.55	25.77	<50 ²	8650	1040	795	212	800	995
03/09/00 ³	31.32	6.14	25.18	74.6 ¹	1170	304	103	25.2	114	539
06/10/00	31.32	6.29	25.03	--	359	63.8	27.8	10.5	35.4	393
09/30/00	31.32	5.79	25.53	100 ⁸	220 ⁶	42	33	12	38	67
12/22/00	31.32	5.52	25.80	110 ⁹	370 ⁶	96	48	18	58	180
03/01/01	31.32	5.75	25.57	144 ⁷	912 ⁶	218	89.0	36.0	110	310
05/04/01	31.32	5.96	25.36	<50	1,260	146	79.6	38.2	101	1,070
09/05/01	31.32	5.61	25.71	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/21/01	31.32	5.67	25.65	180	850	160	11	32	84	300
03/15/02	31.32	6.15	25.17	--	--	--	--	--	--	--
06/15/02	31.32	6.01	25.31	<50	550	110	3.0	23	58	590
09/06/02	31.32	5.74	25.58	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/06/02	31.32	5.56	25.76	160	350	60	1.3	11	32	530
03/03/03	31.32	5.92	25.40	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
06/17/03 ¹⁴	31.32	6.19	25.13	130	560	90	2	19	57	590
MW-4										
04/08/99	30.13	--	--	--	130	3.1	<0.5	<0.5	7.7	4,700
06/17/99	30.13	5.19	24.94	3,780 ¹	590	58	<5.0	<5.0	160	6,200
09/29/99	30.13	4.96	25.17	1,130 ¹	692	10.7	<2.5	5.51	236	7,840
12/14/99	30.13	4.91	25.22	571 ^{1,2}	625	<10	3.83	<10	94.6	4,470
03/09/00 ³	30.13	5.45	24.68	600 ¹	402	3.76	1.18	<0.5	71.4	3,140
06/10/00	30.13	5.53	24.60	--	<1,000	13.2	<10.0	<10.0	97.8	3,080
09/30/00	30.13	5.09	25.04	1,400 ⁷	280 ⁶	21	0.67	6.3	60	3,300
12/22/00	30.13	4.90	25.23	740 ⁹	240 ⁶	2.2	<0.50	1.3	25	2,200
03/01/01	30.13	5.15	24.98	661 ⁷	193	2.31	<0.500	1.34	12.1	1,220
05/04/01	30.13	5.25	24.88	1,100 ⁷	722	12.0	<5.00	17.1	89.4	2,390
09/05/01	30.13	4.96	25.17	2,500	1,400	23	2.2	19	260	2,300
12/21/01	30.13	5.06	25.07	1,100	310	2.9	<0.50	2.6	32	860
03/15/02	30.13	5.44	24.69	3,100	520	5.0	<0.50	15	6.8	2,700
06/15/02	30.13	5.29	24.84	2,400	950	16	3.6	41	100	2,200/2,400 ¹²
09/06/02	30.13	5.07	25.06	2,600	640	9.6	0.52	9.8	28	1,700

Table 1
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Chevron Service Station #9-4800
1700 Castro Street
Oakland, California

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MW-4 (cont)										
12/06/02	30.13	4.93	25.20	1,400	280	3.6	<0.50	1.7	<1.5	730
03/03/03	30.13	5.28	24.85	1,500	280	2.7	<0.50	7.3	2.3	910
06/17/03 ¹⁴	30.13	5.44	24.69	2,000	660	8	1	38	16	1,100
MW-5										
04/08/99	30.93	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/17/99	30.93	4.93	26.00	53.8 ¹	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/29/99	30.93	4.73	26.20	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/14/99	30.93	4.61	26.32	<50 ²	<50	<0.5	<0.5	<0.5	<0.5	0.598
03/09/00 ³	30.93	5.00	25.93	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/10/00	30.93	5.21	25.72	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
09/30/00	30.93	4.79	26.14	130 ⁸	<50	<0.50	<0.50	<0.50	<0.50	<2.5
12/22/00	30.93	4.60	26.33	250 ⁸	<50	<0.50	<0.50	<0.50	<0.50	9.1
03/01/01	30.93	4.77	26.16	77.4 ⁷	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/04/01	30.93	4.89	26.04	NOT SAMPLED DUE TO INSUFFICIENT WATER			--	--	--	--
09/05/01	30.93	4.72	26.21	SAMPLED SEMI-ANNUALLY			--	--	--	--
12/21/01	30.93	4.73	26.20	110	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/15/02	30.93	5.06	25.87	--	--	--	--	--	--	--
06/15/02	30.93	4.95	25.98	<50	<50	<0.50	<0.50	<0.50	<1.5	<2.5
09/06/02	30.93	4.75	26.18	SAMPLED SEMI-ANNUALLY			--	--	--	--
12/06/02	30.93	4.61	26.32	<50	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/03/03	30.93	4.94	25.99	SAMPLED SEMI-ANNUALLY			--	--	--	--
06/17/03 ¹⁴	30.93	5.06	25.87	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW-6										
04/08/99	30.58	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	4.5
06/17/99	30.58	5.99	24.59	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/29/99	30.58	5.81	24.77	<50	<50	<0.5	<0.5	<0.5	<0.5	4.46
12/14/99	30.58	5.74	24.84	<50 ²	<50	<0.5	<0.5	<0.5	<0.5	4.13
03/09/00 ³	30.58	6.49	24.09	<50	<50	<0.5	<0.5	<0.5	<0.5	2.82
06/10/00	30.58	6.58	24.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-4800
1700 Castro Street
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6 (cont)										
09/30/00	30.58	6.00	24.58	110 ⁸	<50	<0.50	<0.50	<0.50	<0.50	7.3
12/22/00	30.58	5.75	24.83	100 ⁸	<50	<0.50	<0.50	<0.50	<0.50	4.5
03/01/01	30.58	6.07	24.51	141 ⁷	<50.0	<0.500	<0.500	<0.500	<0.500	7.52
05/04/01	30.58	6.26	24.32	<50	<50.0	<0.500	<5.00	<5.00	<5.00	2.74
09/05/01	30.58	5.99	24.59	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/21/01	30.58	5.93	24.65	200	<50	<0.50	<0.50	<0.50	<1.5	8.5
03/15/02	30.58	6.44	24.14	--	--	--	--	--	--	--
06/15/02	30.58	6.25	24.33	<50	<50	<0.50	<0.50	<0.50	<1.5	4.3
09/06/02	30.58	5.98	24.60	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/06/02	30.58	5.79	24.79	64	<50	<0.50	<0.50	<0.50	<1.5	5.0
03/03/03	30.58	6.14	24.44	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
06/17/03 ¹⁴	30.58	6.47	24.11	<50	<50	<0.5	<0.5	<0.5	<0.5	13
MW-7										
05/04/01 ¹¹	31.90	4.03	27.87	<50	<50.0	<0.500	<5.00	<5.00	<5.00	567/470 ¹²
09/05/01	31.90	3.86	28.04	<50	<50	<0.50	<0.50	<0.50	<1.5	1,400/1,300 ¹²
12/21/01	31.90	3.04	28.86	210	<50	<0.50	<0.50	<0.50	<1.5	620/670 ¹²
03/15/02	31.90	4.18	27.72	<50	<50	<0.50	<0.50	<0.50	<1.5	320/350 ¹²
06/15/02	31.90	4.06	27.84	<50	<50	<0.50	<0.50	<0.50	<1.5	850/960 ¹²
09/06/02	31.90	3.93	27.97	<50	59	<0.50	<0.50	<0.50	<1.5	1,900
12/06/02	31.90	3.87	28.03	<50	68	<0.50	<0.50	<0.50	<1.5	2,200
03/03/03	31.90	4.21	27.69	<50	<50	<0.50	<0.50	<0.50	<1.5	1,300
06/17/03 ¹⁴	31.90	4.14	27.76	<50	79	<0.5	<0.5	<0.5	<0.5	2,500
TRIP BLANK										
06/04/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/16/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/17/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/18/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/28/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/07/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-4800
1700 Castro Street
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
TRIP BLANK (cont)										
12/09/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/11/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
06/17/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/14/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/09/00 ³	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/10/00	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
09/30/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
12/22/00 ¹⁰	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
03/01/01	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/04/01	--	--	--	--	<50.0	<0.500	<5.00	<5.00	<5.00	<0.500
09/05/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
QA										
12/21/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/15/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
06/15/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
09/06/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
12/06/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/03/03 ¹³	--	--	--	--	--	--	--	--	--	--
06/17/03 ¹⁴	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-4800
1700 Castro Street
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to June 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-D = Total Petroleum Hydrocarbons as Diesel

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

-- = Not Measured/Not Analyzed

(ppb) = Parts per Billion

QA = Quality Assurance/Trip Blank

* TOC elevation was surveyed on April 11, 2001, by Virgil Chavez Land Surveying. The benchmark for the survey was the top of curb at the south end of the return at the southeast corner of Castro Street and 18th Street. (Benchmark Elevation = 29.65 feet, msl).

1 Chromatogram pattern indicates an unidentified hydrocarbon.

2 Sample was extracted outside EPA recommended holding time.

3 TPH-G, BTEX and MTBE was analyzed outside EPA recommended holding time.

4 EPA Method 8240.

5 Confirmation run.

6 Laboratory report indicates gasoline C6-C12.

7 Laboratory report indicates unidentified hydrocarbons C9-C24.

8 Laboratory report indicates unidentified hydrocarbons >C16.

9 Laboratory report indicates unidentified hydrocarbons C9-C40.

10 Laboratory report indicates this sample was analyzed outside of the EPA recommended holding time.

11 Well development performed.

12 MTBE by EPA Method 8260.

13 Due to laboratory error the trip blank sample was not analyzed.

14 BTEX and MTBE by EPA Method 8260.

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Chevron Service Station #9-4800
1700 Castro Street
Oakland, California

WELL ID/ DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
MW-1 06/17/03	--	--	92	--	--	--
MW-2 06/17/03	--	--	2,700	--	--	--
MW-3 06/17/03	--	--	590	--	--	--
MW-4 04/08/99	<25,000	<5000	5400	<100	<100	<100
06/15/02	--	840	2,400	<2	<2	110
06/17/03	--	520	1,100	<0.5	<0.5	110
MW-5 04/08/99	<500	<100	<2.0	<2.0	<2.0	<2.0
06/17/03	--	--	<0.5	--	--	--
MW-6 04/08/99	<500	<100	5.6	<2.0	<2.0	<2.0
06/17/03	--	--	13	--	--	--
MW-7 05/04/01	<500	57	470	<2.0	<2.0	11
09/05/01	<500	<100	1,300	<2	<2	32
12/21/01	<500	<100	670	<2	<2	15

Table 2
Groundwater Analytical Results - Oxygenate Compounds
 Chevron Service Station #9-4800
 1700 Castro Street
 Oakland, California

WELL ID/ DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
MW-7 (cont)						
03/15/02	<500	<100	350	<2	<2	8
06/15/02	--	<100	960	<2	<2	18
06/17/03	--	37	2,500	<0.5	<0.5	53

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Chevron Service Station #9-4800
1700 Castro Street
Oakland, California

EXPLANATIONS:

Groundwater laboratory analytical results prior to May 4, 2001, were compiled from reports prepared by Blaine Tech Services, Inc.

TBA = Tertiary butyl alcohol

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

(ppb) = Parts per billion

-- = Not Analyzed

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 #9-4800 Job Number: 386383
 Site Address: 1700 Castro Street Event Date: 6/17/03 (inclusive)
 City: Oakland, CA Sampler: G.P.

Well ID: MW-1 Date Monitored: 6/17/03 Well Condition: OK
 Well Diameter: 2 in.
 Total Depth: 29.91 ft.
 Depth to Water: 25.11 ft.
4.8 xVF 0.17 = 0.82 x3 (case volume) = Estimated Purge Volume: 2.5 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: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): 0835 Weather Conditions: Overcast
 Sample Time/Date: 0900 6/17/03 Water Color: Clear Odor: Yes
 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>0838</u>	<u>1</u>	<u>7.29</u>	<u>189</u>	<u>20.9</u>		
<u>0843</u>	<u>2</u>	<u>7.24</u>	<u>196</u>	<u>20.8</u>		
<u>0845</u>	<u>2.5</u>	<u>7.22</u>	<u>191</u>	<u>20.9</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x vov vial	YES	HCL	LANCASTER	TPH-G(8015)/BTX+MTBE(8260)
MW-1	7 x amber	YES	NP	LANCASTER	TPH-D

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4800 Job Number: 386383
 Site Address: 1700 Castro Street Event Date: 6/17/03 (inclusive)
 City: Oakland, CA Sampler: G-R

Well ID: MW-2 Date Monitored: 6/17/03 Well Condition: OK
 Well Diameter: 2 in.
 Total Depth: 29.62 ft.
 Depth to Water: 23.93 ft.
 Volume Factor (VF) table:

3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
4" = 0.86	5" = 1.02	6" = 1.50	12" = 5.80

 $5.49 \times VF 0.17 = 0.94 \times 3 \text{ (case volume)} = \text{Estimated Purge Volume: } 3 \text{ gal.}$

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): 0914 Weather Conditions: Overcast
 Sample Time/Date: 0945 6/17/03 Water Color: Clear Odor: yes
 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>0920</u>	<u>1</u>	<u>7.36</u>	<u>158</u>	<u>21.0</u>	_____	_____
<u>0923</u>	<u>2</u>	<u>7.31</u>	<u>144</u>	<u>20.9</u>	_____	_____
<u>0927</u>	<u>3</u>	<u>7.29</u>	<u>149</u>	<u>20.9</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

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

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4800 Job Number: 386383
 Site Address: 1700 Castro Street Event Date: 6/17/03 (inclusive)
 City: Oakland, CA Sampler: GR

Well ID: MW-3 Date Monitored: 6/17/03 Well Condition: OK

Well Diameter: 2 in.

Total Depth: 2938 ft.

Depth to Water: 2513 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

$0.17 \times VF = 0.72 \times 3$ (case volume) = Estimated Purge Volume: 2.5 gal.

Purge Equipment:
 Disposable Bailor
 Stainless Steel Bailor _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:
 Disposable Bailor
 Pressure Bailor _____
 Discrete Bailor _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (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
 Product Transferred to: _____

Start Time (purge): 0800 Weather Conditions: Overcast
 Sample Time/Date: 0825 6/17/03 Water Color: Clear Odor: Yes
 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>0806</u>	<u>1</u>	<u>7.28</u>	<u>201</u>	<u>20.9</u>		
<u>0809</u>	<u>2</u>	<u>7.23</u>	<u>221</u>	<u>20.8</u>		
<u>0811</u>	<u>2.5</u>	<u>7.24</u>	<u>214</u>	<u>20.8</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)
MW-3	x amber	YES	NP	LANCASTER	TPH-D

COMMENTS: _____

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4800 Job Number: 386383
 Site Address: 1700 Castro Street Event Date: 6/17/07 (inclusive)
 City: Oakland, CA Sampler: G. R.

Well ID: MW-4 Date Monitored: 6/17/07 Well Condition: OK
 Well Diameter: 2 in.
 Total Depth: 28.26 ft.
 Depth to Water: 24.69 ft.
3.57 x VF 0.17 = 0.61 x3 (case volume) = Estimated Purge Volume: 2 gal.

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

Purge Equipment:
 Disposable Bailor
 Stainless Steel Bailor _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:
 Disposable Bailor
 Pressure Bailor _____
 Discrete Bailor _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (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
 Product Transferred to: _____

Start Time (purge): 1605 Weather Conditions: Overcast
 Sample Time/Date: 1040 6/17/07 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 (°F)	D.O. (mg/L)	ORP (mV)
<u>1016</u>	<u>5</u>	<u>7.04</u>	<u>964</u>	<u>20.8</u>		
<u>1018</u>	<u>1</u>	<u>7.01</u>	<u>938</u>	<u>20.7</u>		
<u>1021</u>	<u>2</u>	<u>7.02</u>	<u>942</u>	<u>20.8</u>		
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11	6 x vovial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260) / 5.26, 5.26
MW-11	2 x amber	YES	NP	LANCASTER	TPH-D

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4800 Job Number: 386383
 Site Address: 1700 Castro Street Event Date: 6/17/03 (inclusive)
 City: Oakland, CA Sampler: G.N.

Well ID: MW-5 Date Monitored: 6/17/03 Well Condition: OK
 Well Diameter: 2 in.
 Total Depth: 27.96 ft.
 Depth to Water: 25.87 ft.
 Volume Factor (VF) table:

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

 xVF 0.17 = 0.36 x3 (case volume) = Estimated Purge Volume: 1 gal.

Purge Equipment:	Sampling Equipment:	Time Started: _____ (2400 hrs)
Disposable Bailer <input checked="" type="checkbox"/>	Disposable Bailer <input checked="" type="checkbox"/>	Time Bailed: _____ (2400 hrs)
Stainless Steel Bailer _____	Pressure Bailer _____	Depth to Product: _____ ft
Stack Pump _____	Discrete Bailer _____	Depth to Water: _____ ft
Suction Pump _____	Other: _____	Hydrocarbon Thickness: <u>0</u> ft
Grundfos _____		Visual Confirmation/Description: _____
Other: _____		Skimmer / Absorbant Sock (circle one)
		Am't Removed from Skimmer: _____ gal
		Am't Removed from Well: _____ gal
		Product Transferred to: _____

Start Time (purge): 0640 Weather Conditions: Overcast
 Sample Time/Date: 0715 1 6/17/03 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 (°F)	D.O. (mg/L)	ORP (mV)
<u>0651</u>	<u>.3</u>	<u>7.04</u>	<u>839</u>	<u>20.8</u>		
<u>0658</u>	<u>.4</u>	<u>7.01</u>	<u>826</u>	<u>20.7</u>		
<u>0704</u>	<u>1.0</u>	<u>7.00</u>	<u>830</u>	<u>20.7</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- <u>5</u>	<u>6</u> x vov vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)
MW- <u>5</u>	<u>2</u> x amber	YES	NP	LANCASTER	TPH-D

COMMENTS: Purged (Bailed) slowly to good de-watering

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4800 Job Number: 386383
 Site Address: 1700 Castro Street Event Date: 6/17/03 (inclusive)
 City: Oakland, CA Sampler: G. R.

Well ID: MW-6 Date Monitored: 6/17/03 Well Condition: OK
 Well Diameter: 2 in.
 Total Depth: 28.08 ft.
 Depth to Water: 24.11 ft.
 $3.97 \times VF \ 0.17 = 0.67 \times 3$ (case volume) = Estimated Purge Volume: 2 gal.

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

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: 0 ft
 Visual Confirmation/Description:
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): 0725 Weather Conditions: Overcast
 Sample Time/Date: 0750 6/17/03 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>0731</u>	<u>1</u>	<u>7.25</u>	<u>416</u>	<u>20.7</u>	_____	_____
<u>0737</u>	<u>1.5</u>	<u>7.29</u>	<u>388</u>	<u>20.7</u>	_____	_____
<u>0740</u>	<u>2</u>	<u>7.21</u>	<u>394</u>	<u>20.6</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>6</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260)</u>
<u>MW-6</u>	<u>2</u> x amber	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-D</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4800
 Site Address: 1700 Castro Street
 City: Oakland, CA

Job Number: 386383
 Event Date: 6/7/07 (inclusive)
 Sampler: C.R.D.

Well ID: MW-7
 Well Diameter: 2 in.
 Total Depth: 29.95 ft.
 Depth to Water: 27.76 ft.
2.19 xVF 0.17 = 0.37 x3 (case volume) = Estimated Purge Volume: 1.1 gal.

Date Monitored: 6/7/07 Well Condition: DK

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: 0 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): 1100 Weather Conditions: Overcast
 Sample Time/Date: 1140 6/7/07 Water Color: Clear Odor: Nil
 Purging Flow Rate: - gpm. Sediment Description: _____
 Did well de-water? Nil If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1106</u>	<u>0.4</u>	<u>7.03</u>	<u>942</u>	<u>20.6</u>	_____	_____
<u>1111</u>	<u>0.8</u>	<u>6.98</u>	<u>956</u>	<u>20.7</u>	_____	_____
<u>1117</u>	<u>1.1</u>	<u>7.21</u>	<u>951</u>	<u>20.7</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	6 x vov vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/50745 8260
MW-7	2 x amber	YES	NP	LANCASTER	TPH-D

COMMENTS: Bailer slow. to avoid de-watering.

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only Group#
 Acc. #: 10904 Sample #: 4067719-26 SAR#: 850453

061803-006

Facility #: <u>SS#9-4800 G-R#386383 Global ID#T0600102076</u> Site Address: <u>1700 CASTRO ST., OAKLAND, CA</u> Chevron PM: <u>KS</u> Lead Consultant: <u>CAMBRIA</u> Consultant/Office: <u>G-R, Inc., 6747 Sierra Court, Suite J, Dublin, Ca. 94568</u> Consultant Prj. Mgr.: <u>Deanna L. Harding (deanna@grinc.com)</u> Consultant Phone #: <u>925-551-7555</u> Fax #: <u>925-551-7899</u> Sampler: <u>G. Rojas</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____				Analyses Requested Preservation Codes H H H BTEX + MTBE 8260 <input checked="" type="checkbox"/> 8021 TPH 8015 MOD GRO TPH 8015 MOD DRC <input type="checkbox"/> Silica Gel Cleanup 8260 full scan 5 Oxygenates <u>8260</u> Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>		Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input checked="" type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input type="checkbox"/> Run ___ oxy s on all hits																									
Matrix Potable <input type="checkbox"/> NIDES <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/>				Total Number of Containers 2		Comments / Remarks																									
Sample Identification				Date Collected		Time Collected		Grab		Composite		Soil		Water		Oil		Air													
QA MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7				6/17/07 ↓ ↓ ↓ ↓ ↓ ↓ ↓		/ 0900 0945 0825 1090 0715 0750 1140		X X X X X X X		X X X X X X X		X X X X X X X		X X X X X X X		X X X X X X X		X X X X X X X		X X X X X X X		X X X X X X X		X X X X X X X		X X X X X X X					
Turnaround Time Requested (TAT) (please circle) STD. TAT <u>24 hour</u> 72 hour 48 hour 4 day 5 day				Relinquished by: <u>[Signature]</u> Date: <u>6/17/07</u> Time: <u>1300</u>		Received by: <u>[Signature]</u> Date: <u>6/18/07</u> Time: <u>0600</u>		Relinquished by: <u>[Signature]</u> Date: <u>6/18/07</u> Time: <u>0850</u>				Received by: <u>[Signature]</u> Date: <u>6/18/07</u> Time: <u>0850</u>				Relinquished by: <u>[Signature]</u> Date: <u>6/18/07</u> Time: <u>1530</u>				Received by: <u>[Signature]</u> Date: <u>6/18/07</u> Time: <u>1530</u>				Relinquished by Commercial Carrier: <u>[Signature]</u> Date: <u>6/18/07</u> Time: <u>0900</u>				Received by: <u>[Signature]</u> Date: <u>6/18/07</u> Time: <u>0900</u>			
Data Package Options (please circle if required) QC Summary Type I — Full Type VI (Raw Data) <input type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) Disk				UPS FedEx Other <u>[Signature]</u>		Temperature Upon Receipt <u>2.5-3.5C</u>				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

RECEIVED

GETTLER-RYAN
ANALYTICAL LABORATORIESSAMPLE GROUP

The sample group for this submittal is 856453. Samples arrived at the laboratory on Thursday, June 19, 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-030617	NA Water	4067719
MW-1-W-030617	Grab Water	4067720
MW-2-W-030617	Grab Water	4067721
MW-3-W-030617	Grab Water	4067722
MW-4-W-030617	Grab Water	4067723
MW-5-W-030617	Grab Water	4067724
MW-6-W-030617	Grab Water	4067725
MW-7-W-030617	Grab Water	4067726

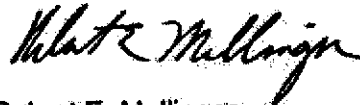
ELECTRONIC Gettler-Ryan
COPY TO
1 COPY TO Cambria C/O Gettler- Ryan

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 4067719**

Collected: 06/17/2003 00:00

Account Number: 10904

 Submitted: 06/19/2003 09:00
 Reported: 06/30/2003 at 11:48
 Discard: 07/31/2003
 QA-T-030617 NA Water

 ChevronTexaco
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

 Facility# 94800 Job# 386383 GRD
 1700 Castro St Oakland T0600102076 QA

QACAS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level. The analysis was performed from a previously opened vial and the results are therefore estimated.						
01594	BTEX + Oxygenates by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	06/23/2003 06:10	Linda C Pape	1
01594	BTEX + Oxygenates by 8260B	SW-846 8260B	1	06/25/2003 22:26	John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/23/2003 06:10	Linda C Pape	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/25/2003 22:26	John B Kiser	n.a.

Lancaster Laboratories Sample No. WW 4067720

Collected: 06/17/2003 09:00 by GR

Account Number: 10904

Submitted: 06/19/2003 09:00

ChevronTexaco

Reported: 06/30/2003 at 11:48

6001 Bollinger Canyon Rd L4310

Discard: 07/31/2003

MW-1-W-030617

Grab Water

San Ramon CA 94583

Facility# 94800 Job# 386383

GRD

1700 Castro St Oakland T0600102076 MW-1

W1CAS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01728	TPH-GRO - Waters	n.a.	290.	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. The analysis was performed from a previously opened vial and the results are therefore estimated.							
05553	TPH - DRO CA LUFT (Waters)	n.a.	180.	50.		ug/l	1
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.							
01594	BTEX + Oxygenates by 8260B						
02010	Methyl Tertiary Butyl Ether	1634-04-4	92.	0.5		ug/l	1
05401	Benzene	71-43-2	34.	0.5		ug/l	1
05407	Toluene	108-88-3	0.6	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	23.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	90.	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	1	06/23/2003	07:17	Linda C Pape	1
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	06/25/2003	00:11	Tracy A Cole	1
01594	BTEX + Oxygenates by 8260B	SW-846 8260B	1	06/25/2003	22:57	John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/23/2003	07:17	Linda C Pape	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/25/2003	22:57	John B Kiser	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	06/23/2003	20:00	Felix C Arroyo	1



Analysis Report

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

Page 2 of 2

Lancaster Laboratories Sample No. WW 4067720

Collected: 06/17/2003 09:00 by GR

Account Number: 10904

Submitted: 06/19/2003 09:00

ChevronTexaco

Reported: 06/30/2003 at 11:48

6001 Bollinger Canyon Rd L4310

Discard: 07/31/2003

MW-1-W-030617

Grab

Water

San Ramon CA 94583

Facility# 94800 Job# 386383

GRD

1700 Castro St Oakland T0600102076 MW-1

WICAS

Lancaster Laboratories Sample No. WW 4067721

Collected: 06/17/2003 09:45 by GR

Account Number: 10904

Submitted: 06/19/2003 09:00

ChevronTexaco

Reported: 06/30/2003 at 11:48

6001 Bollinger Canyon Rd L4310

Discard: 07/31/2003

MW-2-W-030617

Grab Water

San Ramon CA 94583

Facility# 94800 Job# 386383

GRD

1700 Castro St Oakland T0600102076 MW-2

W2CAS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	4,700.	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. The analysis was performed from a previously opened vial and the results are therefore estimated.						
05553	TPH - DRO CA LUFT (Waters)	n.a.	4,100.	250.	ug/l	10
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01594	BTEX + Oxygenates by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	2,700.	10.	ug/l	20
05401	Benzene	71-43-2	140.	0.5	ug/l	1
05407	Toluene	108-88-3	4.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	370.	10.	ug/l	20
06310	Xylene (Total)	1330-20-7	84.	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	06/23/2003 07:50		Linda C Pape	1
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	06/26/2003 19:00		Tracy A Cole	10
01594	BTEX + Oxygenates by 8260B	SW-846 8260B	1	06/25/2003 23:29		John B Kiser	1
01594	BTEX + Oxygenates by 8260B	SW-846 8260B	1	06/26/2003 00:00		John B Kiser	20
01146	GC VOA Water Prep	SW-846 5030B	1	06/23/2003 07:50		Linda C Pape	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/25/2003 23:29		John B Kiser	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	06/23/2003 20:00		Felix C Arroyo	1

Lancaster Laboratories Sample No. WW 4067721

Collected: 06/17/2003 09:45 by GR

Account Number: 10904

Submitted: 06/19/2003 09:00

ChevronTexaco

Reported: 06/30/2003 at 11:48

6001 Bollinger Canyon Rd L4310

Discard: 07/31/2003

MW-2-W-030617

Grab

Water

San Ramon CA 94583

Facility# 94800 Job# 386383

GRD

1700 Castro St Oakland T0600102076 MW-2

W2CAS

Lancaster Laboratories Sample No. WW 4067722

Collected: 06/17/2003 08:25 by GR

Account Number: 10904

Submitted: 06/19/2003 09:00

ChevronTexaco

Reported: 06/30/2003 at 11:48

6001 Bollinger Canyon Rd L4310

Discard: 07/31/2003

MW-3-W-030617

Grab Water

San Ramon CA 94583

Facility# 94800 Job# 386383

GRD

1700 Castro St Oakland T0600102076 MW-3

W3CAS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters 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.	n.a.	560.	50.	ug/l	1
05553	TPH - DRO CA LUFT (Waters) According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.	n.a.	130.	50.	ug/l	1
01594	BTEX + Oxygenates by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	590.	5.	ug/l	10
05401	Benzene	71-43-2	90.	0.5	ug/l	1
05407	Toluene	108-88-3	2.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	19.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	57.	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	06/23/2003 08:23		Linda C Pape	1
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	06/25/2003 00:30		Tracy A Cole	1
01594	BTEX + Oxygenates by 8260B	SW-846 8260B	1	06/26/2003 00:32		John B Kiser	1
01594	BTEX + Oxygenates by 8260B	SW-846 8260B	1	06/26/2003 09:56		John B Kiser	10
01146	GC VOA Water Prep	SW-846 5030B	1	06/23/2003 08:23		Linda C Pape	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/26/2003 00:32		John B Kiser	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	2	06/26/2003 09:56		John B Kiser	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	06/23/2003 20:00		Felix C Arroyo	1

Lancaster Laboratories Sample No. WW 4067723

Collected: 06/17/2003 10:40 by GR

Account Number: 10904

Submitted: 06/19/2003 09:00

ChevronTexaco

Reported: 06/30/2003 at 11:48

6001 Bollinger Canyon Rd L4310

Discard: 07/31/2003

MW-4-W-030617

Grab

Water

San Ramon CA 94583

Facility# 94800 Job# 386383

GRD

1700 Castro St Oakland T0600102076 MW-4

W4CAS						
01146	GC VOA Water Prep	SW-846 5030B	1	06/23/2003 09:00	Linda C Pape	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/26/2003 01:03	John B Kiser	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	2	06/26/2003 10:27	John B Kiser	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	06/23/2003 20:00	Felix C Arroyo	1

Lancaster Laboratories Sample No. WW 4067724

Collected: 06/17/2003 07:15 by GR

Account Number: 10904

Submitted: 06/19/2003 09:00

ChevronTexaco

Reported: 06/30/2003 at 11:48

6001 Bollinger Canyon Rd L4310

Discard: 07/31/2003

MW-5-W-030617

Grab Water

San Ramon CA 94583

Facility# 94800 Job# 386383

GRD

1700 Castro St Oakland T0600102076 MW-5

W5CAS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
05553	TPH - DRO CA LUFT (Waters)	n.a.	N.D.	50.	ug/l	1
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01594	BTEX + Oxygenates by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	06/24/2003 01:30	Linda C Pape	1
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	06/25/2003 00:50	Tracy A Cole	1
01594	BTEX + Oxygenates by 8260B	SW-846 8260B	1	06/25/2003 19:15	John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/24/2003 01:30	Linda C Pape	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/25/2003 19:15	John B Kiser	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	06/23/2003 20:00	Felix C Arroyo	1

Lancaster Laboratories Sample No. **WW 4067725**

Collected: 06/17/2003 07:50 by GR

Account Number: 10904

Submitted: 06/19/2003 09:00

ChevronTexaco

Reported: 06/30/2003 at 11:48

6001 Bollinger Canyon Rd L4310

Discard: 07/31/2003

MW-6-W-030617

Grab Water

San Ramon CA 94583

Facility# 94800 Job# 386383

GRD

1700 Castro St Oakland T0600102076 MW-6

W6CAS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
05553	TPH - DRO CA LUFT (Waters)	n.a.	N.D.	50.	ug/l	1
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01594	BTEX + Oxygenates by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	13.	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	06/24/2003 02:02	Linda C Pape	1
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	06/25/2003 01:09	Tracy A Cole	1
01594	BTEX + Oxygenates by 8260B	SW-846 8260B	1	06/24/2003 19:31	John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/24/2003 02:02	Linda C Pape	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/24/2003 19:31	John B Kiser	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	06/23/2003 20:00	Felix C Arroyo	1

Lancaster Laboratories Sample No. **WW 4067726**

Collected: 06/17/2003 11:40 by GR

Account Number: 10904

Submitted: 06/19/2003 09:00

ChevronTexaco

Reported: 06/30/2003 at 11:48

6001 Bollinger Canyon Rd L4310

Discard: 07/31/2003

MW-7-W-030617

Grab

Water

San Ramon CA 94583

Facility# 94800 Job# 386383

GRD

1700 Castro St Oakland T0600102076 MW-7

W7CAS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01728	TPH-GRO - Waters	n.a.	79.	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.						
05553	TPH - DRO CA LUFT (Waters)	n.a.	N.D.	50.		ug/l	1
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01594	BTEX + Oxygenates by 8260B						
02010	Methyl Tertiary Butyl Ether	1634-04-4	2,500.	10.		ug/l	20
02011	di-Isopropyl ether	108-20-3	N.D.	0.5		ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5		ug/l	1
02014	t-Amyl methyl ether	994-05-8	53.	0.5		ug/l	1
02015	t-Butyl alcohol	75-65-0	37.	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	06/24/2003	02:35	Linda C Pape	1
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	06/25/2003	01:28	Tracy A Cole	1
01594	BTEX + Oxygenates by 8260B	SW-846 8260B	1	06/26/2003	10:11	John B Kiser	1
01594	BTEX + Oxygenates by 8260B	SW-846 8260B	1	06/26/2003	10:43	John B Kiser	20
01146	GC VOA Water Prep	SW-846 5030B	1	06/24/2003	02:35	Linda C Pape	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/26/2003	10:11	John B Kiser	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	06/23/2003	20:00	Felix C Arroyo	1

Quality Control Summary

Client Name: ChevronTexaco
Reported: 06/30/03 at 11:49 AM

Group Number: 856453

Sample Matrix Quality Control

Analysis Name	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD Max
	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>Conc</u>	<u>Conc</u>	<u>RPD</u>
Methyl Tertiary Butyl Ether	95	96	69-134	1	30			
Benzene	103	104	83-128	1	30			
Toluene	103	104	83-127	1	30			
Ethylbenzene	102	102	82-134	0	30			
Xylene (Total)	103	104	82-130	1	30			
Batch number: P031761AA Sample number(s): 4067719-4067724								
Methyl Tertiary Butyl Ether	98	97	69-134	1	30			
di-Isopropyl ether	103	102	75-130	1	30			
Ethyl t-butyl ether	101	99	73-123	1	30			
t-Amyl methyl ether	99	97	77-117	2	30			
t-Butyl alcohol	106	104	39-155	2	30			
Benzene	106	103	83-128	3	30			
Toluene	106	112	83-127	5	30			
Ethylbenzene	106	103	82-134	2	30			
Xylene (Total)	107	106	82-130	1	30			
Batch number: P031761AB Sample number(s): 4067722-4067723								
Methyl Tertiary Butyl Ether	98	97	69-134	1	30			
Batch number: P031762AB Sample number(s): 4067726								
Methyl Tertiary Butyl Ether	107	108	69-134	0	30			
di-Isopropyl ether	110	110	75-130	0	30			
Ethyl t-butyl ether	110	109	73-123	1	30			
t-Amyl methyl ether	108	112	77-117	4	30			
t-Butyl alcohol	106	109	39-155	3	30			
Benzene	112	113	83-128	1	30			
Toluene	115	111	83-127	3	30			
Ethylbenzene	109	107	82-134	1	30			
Xylene (Total)	110	108	82-130	2	30			

Surrogate Quality Control

Analysis Name: TPH-GRO - Waters
Batch number: 03171A51A
Trifluorotoluene-F

4067719	117
4067720	110
4067721	117
4067722	115
4067723	116
Blank	118
LCS	120
LCSD	119
MS	117

Limits: 57-146

Analysis Name: TPH-GRO - Waters
Batch number: 03171A51B
Trifluorotoluene-F

*- 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: 06/30/03 at 11:49 AM

Group Number: 856453

Surrogate Quality Control

4067724	115
4067725	111
4067726	114
Blank	115
LCS	120
LCSD	119
MS	117

Limits: 57-146

 Analysis Name: TPH - DRO CA LUFT (Waters)
 Batch number: 031740010A
 Orthoterphenyl

4067720	88
4067721	119
4067722	93
4067723	92
4067724	91
4067725	89
4067726	86
Blank	110
LCS	108
LCSD	109

Limits: 59-139

 Analysis Name: BTEX + Oxygenates by 8260B
 Batch number: P031751AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4067725	103	106	107	98
Blank	101	103	105	99
LCS	102	101	104	103
MS	101	105	105	102
MSD	103	101	104	102

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

 Analysis Name: BTEX + Oxygenates by 8260B
 Batch number: P031761AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4067719	98	98	107	91
4067720	98	97	107	97
4067721	98	98	105	102
4067722	97	97	107	96
4067723	95	97	105	96
4067724	97	96	99	92
Blank	97	97	107	91
LCS	98	96	98	98
MS	98	98	98	98
MSD	96	94	105	98

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

 Analysis Name: 8260 Master Scan (water)
 Batch number: P031761AB

*- 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: 06/30/03 at 11:49 AM

Group Number: 856453

Surrogate Quality Control

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	95	98	99	93
LCS	98	96	98	98
MS	98	98	98	98
MSD	96	94	105	98
Limits:	81-120	82-112	85-112	83-113

Analysis Name: BTEX + Oxygenates by 8260B
Batch number: P031762AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4067726	100	97	101	92
Blank	102	103	101	95
LCS	103	102	99	96
MS	101	105	100	99
MSD	101	104	99	98
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:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	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.		
>	greater than		
J	estimated value - The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).		
ppm	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.		
ppb	parts per billion		
Dry weight basis	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

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

Inorganic Qualifiers

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