Chevron

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Marketing – Northwest Region
Phone 510 842 9500

September 2, 1994

Mr. Scott Seery
Alameda County Environmental Health
1131 Harbor Way Pkwy, 2nd Flr.
Alameda, CA 94502-5677

Re : Chevron Service Station No. 9-8139
16304 Foothill Rd., San Leandro, California

Dear Mr. Seery :

During this sampling period, monitoring well MW-11 was the only well that did not detect any dissolved hydrocarbons. Wells MW-1 and MW-2 were non-detect for everything except toluene. The remaining wells have varying levels of dissolved hydrocarbons with a majority of the wells having concentrations relatively near the detection limit.

Please refer to the enclosed monitoring and sampling report from Sierra Environmental Services report dated August 28, 1994. If you have any questions or comments, please feel free to call me at (510) 842-8752.

Sincerely,

Chevron U.S.A. Products Co.

Kenneth Kan
Engineer

LKAN/MacFile 9-8139R13

cc : Mr. Lester Feldman
RWQCB-S.F. Bay Region
2101 Webster Str., Suite 500
Oakland, CA 94612

Mr. Steve Willer
Chevron U.S.A. Products Co.

SIERRA
Environmental Services

SEP 01 '94 K.L.K.

August 28, 1994

Kenneth Kan
Chevron USA Products Company
P.O. Box 5004
San Ramon, CA 94583

Re: Chevron Service Station #9-8139
16304 Foothill Boulevard
San Leandro, California
SES Project #1-289-04

Dear Mr. Kan:

This report presents the results of the quarterly ground water sampling at Chevron Service Station #9-8139, located at 16304 Foothill Boulevard in San Leandro, California. Twelve wells, MW-1 through MW-3, MW-6 through MW-11, EW-1, EW-2 and EW-3, were sampled (Figure 1).

Really? well is reported "dry"?

On July 29, 1994, SES personnel visited the site. Water level measurements were collected in all site wells and all wells were checked for the presence of free-phase hydrocarbons. **Free-phase hydrocarbons were not present in any of the site wells.** Water level data are shown in Table 1 and ground water elevation contours are included on Figure 1.

The ground water samples were collected on July 29, 1994, in accordance with SES Standard Operating Procedure - Ground Water Sampling (attached). The field water sampling forms for this event are included. All analyses were performed by GTEL of Concord, California. Analytic results for ground water are presented in Tables 1 and 2. The chain of custody document and laboratory analytic reports are attached. SES is not responsible for laboratory omissions or errors.

Thank you for allowing us to provide services to Chevron. Please call if you have any questions.

REGISTERED PROFESSIONAL ENGINEER
CHRIS J. BRAMER
C 048846
Exp 9/96
CIVIL
STATE OF CALIFORNIA

Sincerely,
Sierra Environmental Services

L. Chernyak for

Argy Mena
Staff Geologist

Chris J. Bramer
Professional Engineer #C48846

AJM/CJB/lmo
28904QM.AU4

cc: Sheldon Nelson, CRTC

Attachments
Figure
Tables
SES Standard Operating Procedure
Field Water Sampling Forms
Chain of Custody Document and Laboratory Analytic Reports

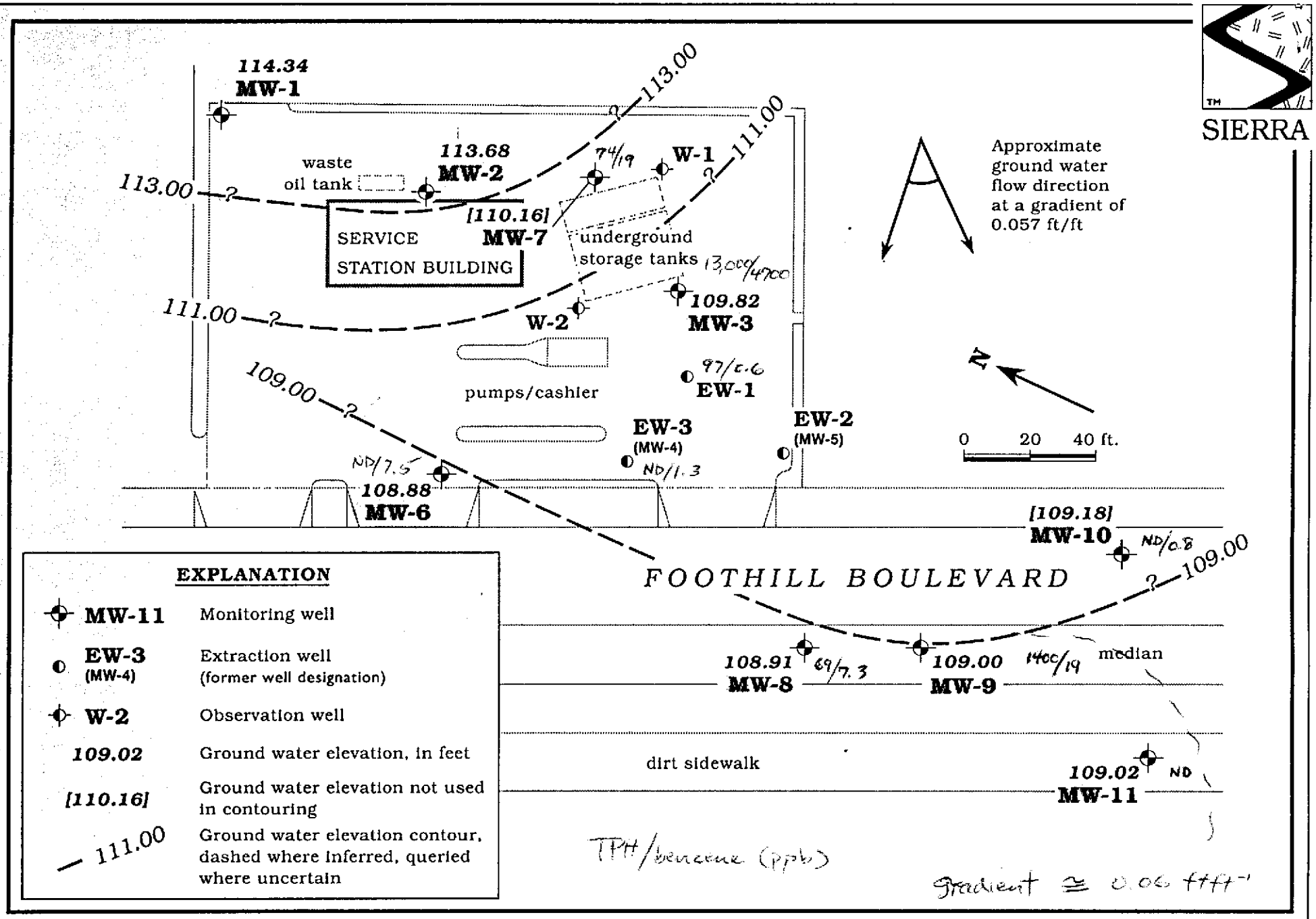

Figure 1. Monitoring Well Locations and Ground Water Elevation Contour Map - July 29, 1994 - Chevron Service Station #9-8139, 16304 Foothill Boulevard, San Leandro, California

1-289-04 8/15/94

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-8139, 16304 Foothill Boulevard, San Leandro, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X	EDB
						<----------ppb---------->					
MW-1/ 127.09	12/5/89	---	---	---	8015/8020/413/504[1,2]	<500	<0.5	<0.5	<0.5	<0.5	<0.5
	3/23/90	12.92	114.17	0	---	---	---	---	---	---	---
	5/24/90	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	9/6/90	14.68	112.41	0	8015/8020/504	<50	<0.5	0.8	<0.5	0.5	<0.5
	9/25/90	15.01	112.08	0	---	---	---	---	---	---	---
	11/29/90	14.82	112.27	0	8015/8020	<50	0.7	0.9	<0.5	1	---
	2/20/91	14.29	112.80	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/19/91	12.16	114.93	0	---	---	---	---	---	---	---
	5/22/91	13.69	113.40	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/22/91	15.38	111.71	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/13/91	15.80	111.29	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/30/92	14.71	112.38	0	8015/8020	<50	0.5	<0.5	<0.5	0.5	---
	4/23/92	12.22	114.87	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/27/92	14.30	112.79	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/26/92	15.90	111.19	0	8015/8020	<50	0.6	<0.5	<0.5	<0.5	---
	1/29/93	10.51	116.58	0	8015/8020	<50	3	3	0.7	3	---
	4/30/93	9.90	117.19	0	8015/8020	<50	<0.5	0.7	<0.5	1	---
	7/14/93	12.28	114.81	0	8015/8020	<50	0.7	1	<0.5	3	---
	10/27/93	15.53	111.56	0	8015/8020	<50	0.9	2	<0.5	2	---
	1/13/94	12.24	114.85	0	8015/8020	<50	<0.5	0.9	<0.5	<0.5	---
	4/22/94	12.91	114.18	0	8015/8020	<50	1.1	2.6	1.0	5.5	---
	7/29/94	**12.75**	**114.34**	**0**	**8015/8020**	**<50**	**<0.5**	**0.9**	**<0.5**	**<0.5**	---
MW-2/ 125.98	12/5/89	---	---	---	8015/8020/413/504[1,2]	<500	<0.5	<0.5	<0.5	0.9	<0.5
	3/23/90	12.40	113.58	0	---	---	---	---	---	---	---
	5/24/90	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	9/6/90	14.85	111.13	0	8015/8020/504	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	9/25/90	14.80	111.18	0	---	---	---	---	---	---	---
	11/29/90	14.40	111.58	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	2/20/91	14.09	111.89	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/19/91	12.62	113.36	0	---	---	---	---	---	---	---
	5/22/91	12.98	113.00	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/22/91	14.93	111.05	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/13/91	15.42	110.56	0	8015/8020	58	<0.5	0.5	0.7	2.3	---
	1/30/92	14.70	111.28	0	8015/8020	<50	<0.5.	<0.5	<0.5	<0.5	---
	4/23/92	13.83	112.15	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/27/92	15.30	110.68	0	8015/8020	<50	<0.5	<0.5	<0.5	1.1	---
	10/26/92	15.62	110.36	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-8139, 16304 Foothill Boulevard, San Leandro, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X	EDB
						<----------ppb---------->					
MW-2	1/29/93	9.26	116.72	0	8015/8020	<50	3	8	1	5	---
(cont)	4/30/93	9.66	116.32	0	8015/8020	<1,300	<13	<13	<13	<13	---
	7/14/93	11.90	114.08	0	8015/8020	<50	0.8	2	0.8	4	---
	10/27/93	13.49	112.49	0	8015/8020	<50	1	2	1	2	---
	1/13/94	11.99	113.99	0	8015/8020	<50	<0.5	0.6	<0.5	<0.5	---
	4/22/94	12.73	113.25	0	8015/8020	<50	0.6	<0.5	<0.5	1.7	---
	7/29/94	**12.30**	**113.68**	**0**	**8015/8020**	**<50**	**<0.5**	**0.9**	**<0.5**	**<0.5**	---
MW-3/	12/5/89	---	---	---	8015/8020/504	24,000	2,400	1,800	360	2,600	<0.5
(d)	12/5/89	---	---	---	8015/8020/413/504[2]	24,000	2,500	1,900	390	2,600	<0.5
127.84	3/23/90	17.50	110.34	0	---	---	---	---	---	---	---
	5/24/90	---	---	---	8015/8020	9,000	2,600	1,700	250	1,500	---
(d)	5/24/90	---	---	---	8015/8020	10,000	2,600	1,800	260	1,600	---
126.77	9/6/90	18.72	108.05	0	8015/8020/504	3,500	900	550	110	460	<0.5
	9/25/90	18.40	108.37	0	---	---	---	---	---	---	---
	11/29/90	18.97	107.80	0	8015/8020	9,200	1,100	1,100	210	1,100	---
	2/20/91	19.20	107.57	0	8015/8020	8,800	960	780	200	920	---
	4/19/91	17.81	108.96	0	---	---	---	---	---	---	---
	5/22/91	17.88	108.89	0	8015/8020	28,000	5,800	1,200	460	2,300	---
	8/1/91	19.23	107.54	0	---	---	---	---	---	---	---
	8/22/91	20.17	106.60	0	8015/8020	21,000	3,100	2,000	480	2,000	---
(d)	8/22/91	---	---	---	8015/8020	19,000	2,700	1,800	420	1,700	---
	11/13/91	19.95	106.82	0	8015/8020	18,000	2,400	1,200	450	2,200	---
	1/30/92	19.14	107.63	0	8015/8020	18,000	3,800	920	700	2,600	---
	4/23/92	17.75	109.02	0	8015/8020	46,000	5,000	1,900	1,000	3,500	---
	7/27/92	19.00	107.77	0	8015/8020	26,000	4,900	1,100	1,200	3,600	---
	10/26/92	19.62	107.15	0	8015/8020	6,600	1,100	41	220	570	---
	1/29/93	15.95	110.82	0	8015/8020	32,000	5,900	2,900	1,300	5,000	---
	4/30/93	15.67	111.10	0	8015/8020	14,000[4]	6,100	98	870	2,400	---
	7/14/93	16.83	109.94	0	8015/8020	12,000[4]	3,100	1,100	720	2,900	---
	10/27/93	17.70	109.07	0	8015/8020	19,000	7,800	400	1,500	3,400	---
	1/13/94	16.54	110.23	0	8015/8020	51,000	3,700	140	720	1,800	---
	4/22/94	17.02	109.75	0	8015/8020	22,000[4]	9,300	89	1,200	2,400	---
	7/29/94	**16.95**	**109.82**	**0**	**8015/8020**	**13,000**	**4,700**	**44**	**580**	**420**	---
MW-4/											
125.22	12/5/89	---	---	---	8015/8020/504	19,000	390	1,300	460	1,800	<0.5
	3/23/90	16.02	109.20	0	---	---	---	---	---	---	---

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-8139, 16304 Foothill Boulevard, San Leandro, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X	EDB
						<----------ppb---------->					
MW-4	5/24/90	---	---	---	8015/8020	4,500	210	440	140	480	---
(cont)	9/6/90	17.35	107.87	0	8015/8020/504	6,000	680	520	170	580	<0.5
	9/25/90	17.48	107.74	0	---	---	---	---	---	---	---
	11/29/90	17.61	107.61	0	8015/8020	15,000	800	1,000	430	1,700	---
	2/20/91	17.81	107.41	0	8015/8020	15,000	640	390	420	1,600	---
(d)	2/20/91	---	---	---	8015/8020	15,000	680	410	430	1,600	---
	4/19/91	15.80	109.42	0	---	---	---	---	---	---	---
	5/22/91[6]	16.68	108.54	0	8015/8020	9,800	580	140	310	740	---
(d)	5/22/91	---	---	---	8015/8020	7,200	520	130	270	670	---
MW-5/											
125.85	3/23/90	16.89	108.96	0	---	---	---	---	---	---	---
	5/25/90	---	---	---	8015/8020/504	28,000	920	1,100	460	1,300	2.4
	9/7/90	18.46	107.42[5]	0.04	8015/8020	---	---	---	---	---	---
	11/29/90	18.87	107.54[5]	0.71	8015/8020	---	---	---	---	---	---
	2/20/91	18.91	107.31[5]	0.47	8015/8020	---	---	---	---	---	---
	4/19/91	16.99	109.24[5]	0.48	---	---	---	---	---	---	---
	9/25/90	19.30	107.58[5]	1.3	---	---	---	---	---	---	---
	5/22/91[6]	17.69	108.42[5]	0.33	8015/8020	---	---	---	---	---	---
MW-6/											
124.18	3/23/90	18.51	105.67	0	---	---	---	---	---	---	---
	5/25/90	---	---	---	8015/8020/504	<50	<2	<3	<3	<3	<0.02
	9/7/90	16.18	108.00	0	8015/8020/504	<50	<2	<3	<3	<3	<0.05
	9/25/90	16.42	107.76	0	---	---	---	---	---	---	---
	11/29/90	16.11	108.07	0	8015/8020/504	<50	<0.5	<0.5	<0.5	<0.5	<0.05
	2/20/91	16.09	108.09	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/19/91	15.15	109.03	0	---	---	---	---	---	---	---
	5/22/91	15.41	108.77	0	8015/8020	<50	0.5	0.7	<0.5	1.1	---
	8/23/91	17.80	106.38	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/14/91	16.52	107.66	0	8015/8020/504	<50	<0.5	<0.5	<0.5	<0.5	<0.02
(d)	11/14/91	---	---	---	8015/8020/504	<50	<0.5	0.6	<0.5	1.1	<0.05
	1/31/92	16.48	107.70	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	--
(d)	1/31/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/23/92	16.20	107.98	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
(d)	4/23/92	---	---	---	8015/8020	---	---	---	---	---	---
	7/27/92	16.52	107.66	0	8015/8020	<50	1.2	0.6	<0.5	1.9	---
	10/26/92	17.12	107.06	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-8139, 16304 Foothill Boulevard, San Leandro, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X	EDB
						<----------ppb---------->					
MW-6 (cont)	1/29/93	13.13	111.05	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/30/93	14.86	109.32	0	8015/8020	<50	<0.5	<0.5	<0.5	0.6	---
	7/14/93	14.61	109.57	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/27/93	15.38	108.80	0	8015/8020	<50	0.9	1	0.6	1	---
	1/13/94	15.34	108.84	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/22/94	15.07	109.11	0	8015/8020	<50	<0.5	<0.5	<0.5	2.5	---
	7/29/94	**15.30**	**108.88**	**0**	**8015/8020**	**<50**	**7.5**	**1.2**	**1.0**	**1.1**	---
MW-7/ 126.86	3/23/90	21.40	105.46	0	---	---	---	---	---	---	---
	5/25/90	---	---	---	8015/8020/504	<50	<2	<3	<3	<3	<0.02
	9/7/90	18.38	108.48	0	---	---	---	---	---	---	---
	9/25/90	19.25	107.61	0	---	---	---	---	---	---	---
	9/27/90	---	---	---	8015/8020/504	<50	<2	<3	<3	<3	<0.05
(d)	9/27/90	---	---	---	8015/8020/504	<50	<2	<3	<3	<3	<0.05
	11/29/90	18.55	108.31	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	2/20/91	18.55	108.31	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/19/91	17.33	109.53	0	---	---	---	---	---	---	---
	5/22/91	17.42	109.44	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/22/91	19.05	107.81	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/13/91	21.84	105.02	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/30/92	22.42	104.44	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/23/92	22.04	104.82	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/27/92	22.24	104.62	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/26/92	22.11	104.75	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/93	17.07	109.79	0	8015/8020	<50	4	13	2	8	---
	4/30/93	14.86	112.00	0	8015/8020	<50	<0.5	<0.5	<0.5	0.6	---
	7/14/93	16.10	110.76	0	8015/8020	<50	<0.5	1	<0.5	2	---
	10/27/93	18.71	108.15	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/13/94	17.89	108.97	0	8015/8020	<50	<0.5	0.9	<0.5	1	---
	4/22/94	16.94	109.92	0	8015/8020	<50	<0.5	<0.5	<0.5	1.3	---
	7/29/94	**16.70**	**110.16**	**0**	**8015/8020**	**74**	**19**	**8.2**	**7.8**	**11**	---
MW-8/ 123.61	9/7/90	16.07	107.54	0	8015/8020/504	<50	<0.5	<0.5	<0.5	<0.5	<0.05
	9/25/90	16.20	107.41	0	---	---	---	---	---	---	---
	11/29/90	16.30	107.31	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
(d)	11/29/90	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-8139, 16304 Foothill Boulevard, San Leandro, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X	EDB
						<----------ppb---------->					
MW-8 (cont)	2/20/91	16.32	107.29	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/19/91	14.71	108.90	0	---	---	---	---	---	---	---
	5/22/91	15.42	108.19	0	8015/8020	<50	0.6	<0.5	<0.5	1	---
	8/22/91	17.15	106.46	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/14/91	16.99	106.62	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/30/92	16.30	107.31	0	8015/8020	<50	1	0.7	<0.5	1.1	---
	4/23/92	15.05	108.56	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/27/92	16.08	107.53	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/26/92	16.72	106.89	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/93	12.82	110.79	0	8015/8020	1,400	470	470	37	160	--
	4/30/93	13.54	110.07	0	8015/8020	1,600	<13	15	18	29	---
	7/14/93	14.65	108.96	0	8015/8020	<50	<0.5	0.7	<0.5	2	---
	10/27/93	15.04	108.57	0	8015/8020	<50	3	4	2	4	---
	1/13/94	15.14	108.47	0	8015/8020	<50	<0.5	4	<0.5	<0.5	---
	4/22/94	15.01	108.60	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/28/94	**14.70**	**108.91**	**0**	**8015/8020**	**69**	**7.3**	**18.0**	**3.3**	**12**	**---**
MW-9/ 124.20	8/22/91	17.60	106.60	0	8015/8020/504	9,600	46	170	98	1,200	<0.05
	11/14/91	17.48	106.72	0	8015/8020/504	11,000	130	58	86	1,500	<0.05
	1/30/92	16.71	107.49	0	8015/8020	11,000	210	29	110	1,900	---
	4/23/92	15.23	108.97	0	8015/8020	17,000	180	25	100	1,900	---
	7/27/92	16.72	107.48	0	8015/8020	2,800	59	1.6	18	280	---
	10/26/92	17.22	106.98	0	8015/8020	3,200	38	<0.5	19	200	---
	1/29/93	13.39	110.81	0	8015/8020	1,300	23	6	8	100	---
	4/30/93	14.00	110.20	0	8015/8020	<1,300	<13	<13	<13	58	---
	7/14/93	15.08	109.12	0	8015/8020	1,300	25	4	15	120	---
	10/27/93	15.62	108.58	0	8015/8020	1,100	21	10	19	73	---
	1/13/94	15.59	108.61	0	8015/8020	80	0.7	3	0.6	3	---
	4/22/94	15.43	108.77	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/29/94	**15.20**	**109.00**	**0**	**8015/8020**	**1,400**	**19**	**11**	**11**	**69**	**---**
MW-10/ 125.03	7/27/92	17.52	107.51	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/27/92	18.06	106.97	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/93	14.15	110.88	0	8015/8020	<50	<0.5	<0.5	<0.5	0.7	---
	4/30/93	14.68	110.35	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/14/93	15.80	109.23	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-8139, 16304 Foothill Boulevard, San Leandro, Cailfornia (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X	EDB
						<----------	----------	ppb	----------	----------	---------->
MW-10 (cont)	10/27/93	16.33	108.70	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/13/94	16.29	108.74	0	8015/8020	<50	<0.5	0.5	<0.5	<0.5	---
	4/22/94	16.15	108.88	0	8015/8020	<50[4]	<0.5	<0.5	<0.5	1.1	---
	7/29/94	**15.85**	**109.18**	**0**	**8015/8020**	**<50[4]**	**0.8**	**2.1**	**0.5**	**1.3**	---
MW-11/ 122.92	7/27/92	15.38	107.54	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/26/92	15.97	106.95	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/93	12.24	110.68	0	8015/8020	<50	8	16	2	10	---
	4/30/93	12.77	110.15	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/14/93	13.84	109.08	0	8015/8020	<50	<0.5	0.7	<0.5	1	---
	10/27/93	14.23	108.69	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/13/94	14.24	108.68	0	8015/8020	<50	<0.5	1	<0.5	<0.5	---
	4/22/94	14.08	108.84	0	8015/8020	<50	<0.5	0.5	<0.5	1.4	---
	7/29/94	**13.90**	**109.02**	**0**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	---
EW-1/ 124.95	5/25/90	---	---	---	8015/8020/504	3,900	260	430	64	340	0.03
	8/1/91	17.54	107.41	0	---	---	---	---	---	---	---
	10/27/93	---	---	---	8015/8020	350	<0.5	<0.5	<0.5	<0.5	---
	1/13/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/22/94	---	---	---	8015/8020	<50[4]	<0.5	<0.5	<0.5	<0.5	---
	7/29/94	---	---	---	**8015/8020**	**97[4]**	**0.6**	**0.5**	**0.6**	**5.1**	---
EW-2/ 125.79	8/1/91	18.07	107.72	0	---	---	---	---	---	---	---
	4/22/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
EW-3/ 125.22	8/1/91	17.49	107.73	0	---	---	---	---	---	---	---
	10/27/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/13/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/22/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/29/94	---	---	---	**8015/8020**	**<50[4]**	**1.3**	**1.3**	**0.6**	**5.3**	---
Rinseate	12/5/89	---	---	---	8015/8020/413/504[2]	<500	<0.5	<0.5	<0.5	<0.5	<0.05
	5/24/90	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	9/7/90	---	---	---	8015/8020/504	<50	<0.5	<0.5	<0.5	<0.5	<0.05
	2/20/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-8139, 16304 Foothill Boulevard, San Leandro, Cailfornia (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X	EDB
						<----------ppb---------->					
Rinseate (cont)	5/22/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/22/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/13/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/30/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/23/92	---	---	---	8015/8020	---	---	---	---	---	---
Trip Blank	2/20/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/22/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/22/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/13/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/30/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/23/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/27/92	---	---	---	8015/8020	<0.5	<0.5	<0.5	<0.5	<0.5	---
	10/26/92	---	---	---	8015/8020	<0.5	<0.5	<0.5	<0.5	<0.5	---
TB-LB	1/29/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/30/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/14/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/27/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/13/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/22/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/29/94	---	---	---	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	---
Bailer Blank BB	1/29/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/30/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/14/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/27/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/13/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/22/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-8139, 16304 Foothill Boulevard, San Leandro, California (continued)

EXPLANATION:

DTW = Depth to water
TOC = Top of casing elevation
GWE = Ground water elevation
msl = Measurements referenced relative to mean sea level
TPPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
TPH(D) = Total Petroleum Hydrocarbons as Diesel
O&G = Oil and Grease
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
EDB = Ethylene Dibromide
ppb = Parts per billion
(d) = Duplicate sample
--- = Not applicable/Not measured

ANALYTIC METHODS:

8015 = EPA Method 8015/5030 for TPPH(G)
8015 = Modified EPA Method 8015 for TPH(D)
8020 = EPA Method 8020 for BTEX
413 = Method 413 for O&G
504 = EPA Method 504 for EDB

NOTES:

All top of casing elevations compiled from Quarterly Ground Water Monitoring Report prepared for Chevron by Burlington Environmental Inc., December 3, 1992.

Analytic data prior to January 15, 1993 compiled from Quarterly Ground Water Monitoring Report prepared for Chevron by Burlington Environmental Inc., December 3, 1992.

* Product thickness was measured on and after January 29, 1993 with an MMC flexi-dip interface probe.

1 TPH(D) analyzed during this event. Not detected at detection limits of 1,000 ppb.
2 O&G analyzed during this event. Not detected at detection limit of 5,000 ppb.
3 Detection limit raised due to surfactants in sample.
4 Uncategorized compound not included in gasoline hydrocarbon concentration.
5 Ground water elevation level corrected for the presence of free-phase hydrocarbons using assumed density of 0.79. Compiled from the Quarterly Ground Water Monitoring Report prepared for Chevron by Burlington Environmental Inc., December 3, 1992.
6 Monitoring well was converted to a ground water extraction well on June 10, 1991. MW-4 was redesignated EW-3. MW-5 was redesignated EW-2.

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Table 2. Analytic Results for Halogenated Volatile Organic Compounds - Chevron Service Station #9-8139, 16304 Foothill Boulevard, San Leandro, California

Well ID	Date Sampled	Analytic Lab	Analytic Method	C	BR	BDM	DBM	Other HVOC's
				<----------ppb---------->				
MW-2	4/30/93	GTEL	8010	77	<0.5	<0.5	<0.5	ND[1]

EXPLANATION:

C = Chloroform
BR = Bromoform
BDM = Bromodichloromethane
DBM = Dibromochloromethane
HVOC = Halogenated Volatile Organic Compound
ND = Not detectable
--- = Not analyzed/Not applicable
ppb = Parts per billion

ANALYTIC METHODS:

8010 = EPA Method 8010 for HVOC's.

ANALYTIC LABORATORIES:

GTEL = Groundwater Technology Environmental Laboratories, Inc. of Concord and Torrance, California.

NOTES:

[1] Other HVOC's not detected at detection limits of 0.5 to 1.0 ppb.

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SES STANDARD OPERATING PROCEDURE
GROUND WATER SAMPLING

The following describes sampling procedures used by SES field personnel to collect and handle ground water samples. Before samples are collected, careful consideration is given to the type of analysis to be performed so that precautions are taken to prevent loss of volatile components or contamination of the sample, and to preserve the sample for subsequent analysis. Wells will be sampled no less than 24 hours after well development. Collection methods specific to ground water sampling are presented below.

Prior to sampling, each well is checked for the presence of free-phase hydrocarbons using an MMC flexi-dip interface probe. Product thickness (measured to the nearest 0.01 foot) is noted on the sampling form. Water level measurements are also made using either a water level meter or the interface probe. The water level measurements are also noted on the sampling form.

Prior to sampling, each well is purged of a minimum of three well casing volumes of water using a steam-cleaned PVC bailer, or a pre-cleaned pump. Temperature, pH and electrical conductivity are measured at least three times during purging. Purging is continued until these parameters have stabilized (i.e., changes in temperature, pH or conductivity do not exceed ±0.5°F, 0.1 or 5%, respectively).

The purge water is taken to Chevron's Richmond Refinery for disposal.

Ground water samples are collected from the wells with Chevron designated disposable bailers. The water samples are decanted into the appropriate container for the analysis to be performed. Pre-preserved sample containers may be used or the analytic laboratory may add preservative to the sample upon arrival. Duplicate samples are collected from each well as a back-up sample and/or to provide quality control. The samples are labeled to include the project number, sample ID, date, preservative, and the field person's initials. The samples are placed in polyethylene bags and in an ice chest (maintained at 4°C) for transport under chain of custody to the laboratory.

The chain of custody form includes the project number, analysis requested, sample ID, date analysis and the SES field person's name. The form is signed and dated (with the transfer time) by each person who yields or receives the samples beginning with the field personnel and ending with the laboratory personnel.

A trip blank accompanies each sampling set, or 5% trip blanks are included for sets of greater than 20 samples. The trip blank is analyzed for some or all of the same compounds as the ground water samples.

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WATER SAMPLING DATA

Job Name 1-289-04 Job Number San Leandro Sampler LC/JR

Well Number MW-1 Date 07/20/94 Well Diameter 2

Sample Point Location/Description N/E from Pac Station Well Depth (spec.) _____

Depth to Water (static) 12.75 Well Depth (sounded) 27.0

Initial height of water in casing 14.25 Volume 2.3 gallons

Volume to be purged 6.9 gallons

Purged With Sub. pump Sampled With Disp. Bailer

Pumped or Bailed Dry? ___ Yes ___ No Time ____ After _____ gallons

Water level at sampling _____ Percent Recovery _____

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
12:05	12:07	3	3	8.2	69	310	
	12:09	3	6	8.5	70	300	
	12:11	1	7	8.7	71	280	

SAMPLES COLLECTED Time 12:20 Total volume purged (gal.) 7

Water color Clear Odor None

Description of sediments or material in sample: —

Additional Comments: —

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW-1	3	1	—	HCL	Y	GTEL	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other _____; 6 = Other _____

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WATER SAMPLING DATA

Job Name 1-289-04 Job Number San Leandro Sampler LC/JC

Well Number MW-2 Date 07/29/94 Well Diameter 2"

Sample Point Location/Description North from the pump Well Depth (spec.) _____

Depth to Water (static) 12.3 Well Depth (sounded) 28.9

Initial height of water in casing 16.6 Volume 2.7 gallons

Volume to be purged 8.1 gallons

Purged With Sub. pump Sampled With Disp. Bailer

Pumped or Bailed Dry? ___ Yes ✓ No Time _____ After _____ gallons

Water level at sampling _____ Percent Recovery _____

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
12:30	12:32	2	2	8.2	69	590	
	12:34	2	4	8.2	71	570	
	12:40	4	8	8.2	72	550	

SAMPLES COLLECTED Time 12:50 Total volume purged (gal.) 8.0

Water color Clear Odor None

Description of sediments or material in sample: —

Additional Comments: —

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW-2	3	1	—	HCL	Y	GTEL	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other _____; 6 = Other _____

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WATER SAMPLING DATA

Job Name 1-289-04 Job Number San Leandro Sampler LC/JC

Well Number MW-3 Date 07/20/94 Well Diameter 2"

Sample Point Location/Description N/E from the pump Well Depth (spec.) _____

Depth to Water (static) 16.95 Well Depth (sounded) 24.8

Initial height of water in casing 7.05 Volume 1.28 gallons

Volume to be purged 3.8 gallons

Purged With Sub. pump Sampled With Disp. Bailer

Pumped or Bailed Dry? ___ Yes ✓ No Time ____ After _____ gallons

Water level at sampling _____ Percent Recovery _____

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
1:02	1:05	1	1	8.4	69	660	
	1:07	2	3	8.2	71	650	
	1:09	1	4	8.0	72	640	

SAMPLES COLLECTED Time 1:15 Total volume purged (gal.) 4

Water color Clear Odor Slight odor

Description of sediments or material in sample: —

Additional Comments: —

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW-3	3	1	—	HCL	Y	GTEL	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other _____; 6 = Other _____

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WATER SAMPLING DATA

Job Name 1-289-04 Job Number San Leandro Sampler LC/JC

Well Number MW-6 Date 07/29/94 Well Diameter 2"

Sample Point Location/Description S/E from Hot pump Well Depth (spec.) _____

Depth to Water (static) 15.3 Well Depth (sounded) 28.2

Initial height of water in casing 12.9 Volume 2.1 gallons

Volume to be purged 6.3 gallons

Purged With Sub. pump Sampled With Disp. Bailer

Pumped or Bailed Dry? ___ Yes X No Time _____ After _____ gallons

Water level at sampling _____ Percent Recovery _____

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
1:20	1:22	2	2	8.5	68	460	
	1:24	2	4	8.4	69	460	
	1:26	2	6	8.2	70	470	

SAMPLES COLLECTED Time 1:30 Total volume purged (gal.) 6

Water color Cloudy Odor None

Description of sediments or material in sample: Some sediments

Additional Comments: _____

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW-6	3	1	—	HCL	Y	GTEL	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other _____; G = Other _____

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WATER SAMPLING DATA

Job Name 1-289-04 Job Number San Leandro Sampler LC/JD

Well Number MW-7 Date 07/20/94 Well Diameter 2"

Sample Point Location/Description To the East of Service Station Well Depth (spec.) _____

Depth to Water (static) 16.7 Well Depth (sounded) 24.9

Initial height of water in casing 8.2 Volume 1.3 gallons

Volume to be purged 4.0 gallons

Purged With Sub. pump Sampled With Disp. Bailer

Pumped or Bailed Dry? X Yes ___ No Time ____ After _____ gallons

Water level at sampling _____ Percent Recovery _____

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
1:35	1:37	1	1	8.2	70	480	
	1:39	1	2	8.1	71	450	
	1:41	2	4	8.0	72	430	

SAMPLES COLLECTED Time 1:45 Total volume purged (gal.) 4

Water color Clear Odor None

Description of sediments or material in sample: None

Additional Comments: _____

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW-7	3	1	—	HCL	Y	GTEL	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other _____; 6 = Other _____

SIERRA

WATER SAMPLING DATA

Job Name 1-289-04 Job Number San Leandro Sampler LC/JC

Well Number MW-8 Date 07/29/94 Well Diameter 2

Sample Point Location/Description On NE median Well Depth (spec.) _____

Depth to Water (static) 14.7 Well Depth (sounded) 30.2

Initial height of water in casing 15.5 Volume 2.5 gallons

Volume to be purged 7 gallons

Purged With Sub. pump Sampled With Disp. Bailer

Pumped or Bailed Dry? ___ Yes ✓ No Time ____ After _____ gallons

Water level at sampling _____ Percent Recovery _____

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
11:10	11:12	2	2	7.7	68	500	
	11:14	2	4	7.6	66	490	
	11:17	3	7	7.6	67	480	

SAMPLES COLLECTED Time 11:25 Total volume purged (gal.) 7

Water color clear Odor None

Description of sediments or material in sample: —

Additional Comments: —

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
	3	1	—	HCL	Y	GTEL	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other _____; 6 = Other _____

SIERRA

WATER SAMPLING DATA

Job Name 1-289-04 Job Number San Leandro Sampler LC/JR

Well Number MW-9 Date 07/29/94 Well Diameter 2"

Sample Point Location/Description on the bottom Well Depth (spec.) _____

Depth to Water (static) 15.12 Well Depth (sounded) 26

Initial height of water in casing 10.8 Volume 1.7 gallons

Volume to be purged 5 gallons

Purged With Sub. pump Sampled With Disp. Bailer

Pumped or Bailed Dry? ___ Yes ✓ No Time ____ After _____ gallons

Water level at sampling _____ Percent Recovery _____

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
11:30	11:32	2	2	8.2	68	680	
	11:34	2	4	8.1	69	680	
	11:36	1	5	8.0	66	640	

SAMPLES COLLECTED Time 11:45 Total volume purged (gal.) 5

Water color clear Odor none

Description of sediments or material in sample: _____

Additional Comments: _____

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW-9	3	1	—	HCL	Y	GTEL	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other _____; 6 = Other _____

SIERRA

WATER SAMPLING DATA

Job Name 1-289-04 Job Number San Leandro Sampler LC./J.C

Well Number MW-10 Date 07/29/94 Well Diameter 2"

Sample Point Location/Description off site on Foothill Blvd. Well Depth (spec.) ———

Depth to Water (static) 15.85 Well Depth (sounded) ~~15.85~~ 29.4

Initial height of water in casing 13.55 Volume 2.2 gallons

Volume to be purged 7 gallons

Purged With Sub. pump Sampled With Disp. Bailer

Pumped or Bailed Dry? ___ Yes V No Time ____ After ____ gallons

Water level at sampling ____ Percent Recovery ____

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
10:45	10:47	2	2	7.9	67	630	
	10:49	2	4	7.8	66	660	
	10:51	3	7	7.7	66	690	

SAMPLES COLLECTED Time 10:57 Total volume purged (gal.) 7

Water color Clear Odor None

Description of sediments or material in sample: ———

Additional Comments: ———

Sample ID	# of Cont.	Container Type	Filtered (size. u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW10	3	1	—	HCL	Y	GTEL	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other ____; 6 = Other ____

SIERRA

WATER SAMPLING DATA

Job Name 1-289-04 Job Number San Leandro Sampler J.C & L.C

Well Number MW-11 Date 07/29/94 Well Diameter 2"

Sample Point Location/Description On Hill Hillcrest Rd Well Depth (spec.) _____

Depth to Water (static) 13.9 Well Depth (sounded) 28.0

Initial height of water in casing 14.1 Volume 2.2 gallons

Volume to be purged 7 gallons

Purged With Sub. pump ✓ Sampled With Disp. Bailer

Pumped or Bailed Dry? ___ Yes ✓ No Time ____ After _____ gallons

Water level at sampling _____ Percent Recovery _____

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
10:55	10:57	2	2	7.8	68	450	
	10:59	2	4	8.4	66	440	
	11:02	3	7	8.6	67	430	

SAMPLES COLLECTED Time 11:10 Total volume purged (gal.) 7

Water color Clear Odor None

Description of sediments or material in sample: —

Additional Comments: —

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
	3	1	—	HCL	Y	GTEL	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other _____; 6 = Other _____

SIERRA

WATER SAMPLING DATA

Job Name 1-289-04 Job Number San Leandro Sampler LC / JC

Well Number EW-1 Date 07/20/94 Well Diameter 4"

Sample Point Location/Description N/E from Hse. pump Well Depth (spec.) _____

Depth to Water (static) _____ Well Depth (sounded) _____

Initial height of water in casing _____ Volume _____ gallons

Volume to be purged _____ gallons

Purged With ~~Sub. pump~~ Sampled With Disp. Bailer

Pumped or Bailed Dry? ___ Yes ___ No Time _____ After _____ gallons

Water level at sampling _____ Percent Recovery _____

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm

SAMPLES COLLECTED Time 11:00 Total volume purged (gal.) _____

Water color Clear Odor Extraction well

Description of sediments or material in sample: None

Additional Comments: None

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
EW-1	3	1	—	HCL	Y	GTEL	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other _____; 6 = Other _____

SIERRA

WATER SAMPLING DATA

Job Name 1-289-04 Job Number San Leandro Sampler LC/JL

Well Number EW-2 Date 07/20/94 Well Diameter _____

Sample Point Location/Description East Trailer pump Well Depth (spec.) _____

Depth to Water (static) _____ Well Depth (sounded) _____

Initial height of water in casing ____ Volume _____ gallons

Volume to be purged _____ gallons

Purged With ~~Sub. pump~~ Sampled With ~~Disp. Bailer~~

Pumped or Bailed Dry? ___ Yes ___ No Time ____ After _____ gallons

Water level at sampling _____ Percent Recovery _____

Dry well

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm

SAMPLES COLLECTED Time 11:25 Total volume purged (gal.) _____

Water color _____ Odor _____

Description of sediments or material in sample: _____

Additional Comments: Extraction well - dry

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
	3	1	—	HCL	Y	GTEL	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other _____; 6 = Other _____

SIERRA

WATER SAMPLING DATA

Job Name 1-289-04 Job Number San Leandro Sampler LC/JC

Well Number EW-3 Date 07/20/94 Well Diameter

Sample Point Location/Description East from the pump. Well Depth (spec.)

Depth to Water (static) Well Depth (sounded)

Initial height of water in casing Volume gallons

Volume to be purged gallons

Purged With Sub. pump Sampled With Disp. Bailer

Pumped or Bailed Dry? ___ Yes ___ No Time ___ After ___ gallons

Water level at sampling Percent Recovery

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm

SAMPLES COLLECTED Time 11:50 Total volume purged (gal.)

Water color clear Odor Extraction well

Description of sediments or material in sample: clear / No odor

Additional Comments: No sediments

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
EW	3	1	—	HCL	Y	GTEL	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other ___; 6 = Other ___

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: 9-8139
Facility Address: 16304 Foothill Blvd, San Leandro
Consultant Project Number: 1-289-04
Consultant Name: Sierra Environmental Services
Address: P.O Box 2546, Martinez, CA 94553
Project Contact (Name): Ed Morales
(Phone) (510) 370-1280 (Fax Number) (510) 370-7959

Chevron Contact (Name): Ken Kirk
(Phone): 842-8752
Laboratory Name: GTEL
Laboratory Release Number: 8617900
Samples Collected by (Name): L.C & J.C
Collection Date: 07/29/94
Signature: L. Clifford

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)					Remarks
TB/LB	01	2	W	G		HCL	Y	V												Analyzed
mw-1	02	3																		
mw-2	03																			
mw-3	04																			
mw-6	05																		8/11	
mw-7	06																			
mw-8	07																			
mw-9	08																			
mw-10	09																			
mw-11	10																			
EW-1	11																			
~~EW-2~~	2																			
EW-3	12																			
																				C4070452

Note:
Do Not Bill
TB-LB Samples
5°

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
L. Clifford	SES	7-29-94 16:50	John Weber	GTEL	7-29-94 1650
John Weber	GTEL	7-29-94 1700			
			Received For Laboratory By (Signature): Kevin Molander		7/29/94 1700

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

4080 Pike Lane
Concord, CA 94520
(510) 685-7852
(800) 544-3422 Inside CA
(800) 423-7143 Outside CA
(510) 825-0720 FAX

August 1, 1994

Ed Morales
Sierra Environmental Services
P.O. 2546
Martinez, CA 94553

RE: GTEL Client ID: SIE01CHV08
Login Number: C4070452
Project ID (number): SIE01CHV08
Project ID (name): CHEVRON/#9-8139, San Leandro, CA

Dear Ed Morales:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 07/29/94.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes.

GTEL is certified by the Department of Health Service under Certification Number E1075.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Rashmi Shah
Laboratory Director

GTEL Client ID: SIE01CHV08
Login Number: C4070452
Project ID (number): SIE01CHV08
Project ID (name): CHEVRON/#9-8139, San Leandro, CA

ANALYTICAL RESULTS

Volatile Organics
Method: EPA 8020
Matrix: Aqueous

GTEL Sample Number	C4070452-01	C4070452-02	C4070452-03	C4070452-04
Client ID	TB/LB	MW-1	MW-2	MW-3
Date Sampled	07/29/94	07/29/94	07/29/94	07/29/94
Date Analyzed	07/30/94	07/30/94	07/30/94	07/30/94
Dilution Factor	1.00	1.00	1.00	50.0

Analyte	Reporting Limit	Units	Concentration:			
Benzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	4700
Toluene	0.5	ug/L	< 0.5	0.9	0.9	44.
Ethylbenzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	580
Xylenes (total)	0.5	ug/L	< 0.5	< 0.5	< 0.5	420
TPH as GAS	50.	ug/L	< 50.	< 50.	< 50.	13000
BFB (Surrogate)	--	%	103.	92.9	91.0	91.4

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical and Chemical Methods, SW-846", Third Edition, Revision 1, US EPA November 1986. Bromofluorobenzene surrogate recovery acceptability limits are 62-129%. Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap.

C4070452-04:

Uncategorized compound is not included in gasoline concentration.

GTEL ENVIRONMENTAL LABORATORIES, INC.

GTEL Client ID: SIE01CHV08
Login Number: C4070452
Project ID (number): SIE01CHV08
Project ID (name): CHEVRON/#9-8139, San Leandro, CA

ANALYTICAL RESULTS

Volatile Organics
Method: EPA 8020
Matrix: Aqueous

GTEL Sample Number	C4070452-05	C4070452-06	C4070452-07	C4070452-08
Client ID	MW-6	MW-7	MW-8	MW-9
Date Sampled	07/29/94	07/29/94	07/29/94	07/29/94
Date Analyzed	07/30/94	07/30/94	07/30/94	07/30/94
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:			
Benzene	0.5	ug/L	7.5	19.	7.3	19.
Toluene	0.5	ug/L	1.2	8.2	18.	11.
Ethylbenzene	0.5	ug/L	1.0	7.8	3.3	11.
Xylenes (total)	0.5	ug/L	1.1	11.	12.	69.
TPH as GAS	50.	ug/L	< 50.	74.	69.	1400
BFB (Surrogate)	--	%	92.8	92.3	98.5	109.

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical and Chemical Methods, SW-846", Third Edition, Revision 1, US EPA November 1986. Bromofluorobenzene surrogate recovery acceptability limits are 62-129%. Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap.

GTEL ENVIRONMENTAL LABORATORIES, INC.

GTEL Client ID: SIE01CHV08
Login Number: C4070452
Project ID (number): SIE01CHV08
Project ID (name): CHEVRON/#9-8139, San Leandro, CA

ANALYTICAL RESULTS

Volatile Organics
Method: EPA 8020
Matrix: Aqueous

GTEL Sample Number	C4070452-09	C4070452-10	C4070452-11	C4070452-12
Client ID	MW-10	MW-11	EW-1	EW-3
Date Sampled	07/29/94	07/29/94	07/29/94	07/29/94
Date Analyzed	07/30/94	07/30/94	07/30/94	07/30/94
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:			
Benzene	0.5	ug/L	0.8	< 0.5	0.6	1.3
Toluene	0.5	ug/L	2.1	< 0.5	0.5	1.3
Ethylbenzene	0.5	ug/L	< 0.5	< 0.5	0.6	0.6
Xylenes (total)	0.5	ug/L	1.3	< 0.5	5.1	5.3
TPH as GAS	50.	ug/L	< 50.	< 50.	97.	< 50.
BFB (Surrogate)	--	%	92.2	93.3	97.3	101.

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical and Chemical Methods, SW-846", Third Edition, Revision 1, US EPA November 1986. Bromofluorobenzene surrogate recovery acceptability limits are 62-129%. Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap.

C4070452-09:

Uncategorized compound is not included in gasoline concentration.

C4070452-11:

Uncategorized compound is not included in gasoline concentration.

C4070452-12:

Uncategorized compound is not included in gasoline concentration.

GTEL ENVIRONMENTAL LABORATORIES, INC.

GTEL Client ID: SIE01CHV08
Login Number: C4070452
Project ID (number): SIE01CHV08
Project ID (name): CHEVRON/#9-8139, San Leandro, CA

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020
Matrix: Aqueous

Method Blank Results

QC Batch No: Q073094-5
Date Analyzed: 30-JUL-94

Analyte	Method: EPA 8020 Concentration: ug/L
Benzene	< 0.30
Toluene	< 0.30
Ethylbenzene	< 0.30
Xylenes (Total)	< 0.50
TPH as Gasoline	< 10.

Notes:

GTEL ENVIRONMENTAL LABORATORIES, INC.

GTEL Client ID: SIE01CHV08
Login Number: C4070452
Project ID (number): SIE01CHV08
Project ID (name): CHEVRON/#9-8139, San Leandro, CA

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020
Matrix: Aqueous

Matrix Spike and Matrix Spike Duplicate Results

Analyte	Original Concentration	Spike Amount	Matrix Spike Concentration	Matrix Spike Recovery, %	Matrix Spike Duplicate Concentration	Matrix Spike Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 8020	GTEL Sample ID:C4070436-05		Spike ID:Q073094-1		Dup. ID:Q073094-2				
Units: ug/L	Analysis Date:29-JUL-94		30-JUL-94		31-JUL-94		Client ID:Batch QC		
Benzene	< 0.50	20.0	18.0	90.0	17.6	88.0	2.2	34	57.3-138%
Toluene	< 0.50	20.0	17.8	88.1	17.3	85.6	2.8	31	63-134%
Ethylbenzene	< 0.50	20.0	17.8	89.0	17.4	87.0	2.2	38	59.3-137%
Xylenes (Total)	< 0.50	60.0	50.0	83.3	49.0	81.7	1.9	31	59.3-144%

Notes:

GTEL ENVIRONMENTAL LABORATORIES, INC.