



**Chevron**

March 17, 1994

**Chevron U.S.A. Products Company**

2410 Camino Ramon  
San Ramon, CA 94583  
P.O. Box 5004  
San Ramon, CA 94583-0804

**Marketing Department**

Phone 510 842 9500

Mr. Scott Seery  
Alameda County Environmental Health  
80 Swan Way, Suite 200  
Oakland, CA 94621

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

Dear Mr. Seery :

Monitoring wells MW-3 and MW-9 had measurable levels of dissolved hydrocarbons. The remaining wells were below the detection limit for all petroleum hydrocarbons constituents with the exception of one constituent, toluene. Traces of toluene ranging from 0.5 to 1 ppb was detected. This is probably anomaly

Please refer to the enclosed report dated March 10, 1994 from Sierra Environmental Services for additional information. 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 9-8139R11

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

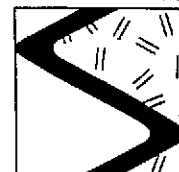
Mr. Steve Willer  
Chevron U.S.A. Products Co.

ALCO  
HAZMAT  
94 MAR 21 AM 11:00



MAR 17 '94 J.M.M.

SIERRA



Environmental Services

March 10, 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

94 MAR 01 AM 11:00  
ALCO  
HAZMAT

Dear Mr. Kan:

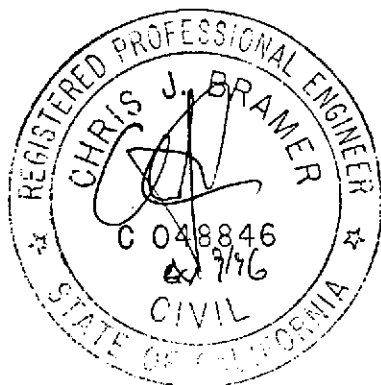
This report presents the results of the quarterly ground water sampling at Chevron Service Station #9-8139, located at 16304 Foothill Boulevard in San Leandro, California. Eleven wells, MW-1 through MW-3, MW-6 through MW-11, EW-1 and EW-3, were sampled (Figure 1).

On January 13, 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 January 13, 1994, in accordance with SES Standard Operating Procedure - Ground Water Sampling (attached). All analyses were performed by GTEL of Concord, California. Analytic results for ground water are presented in Tables 2 & 3. 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.

Sincerely,  
Sierra Environmental Services

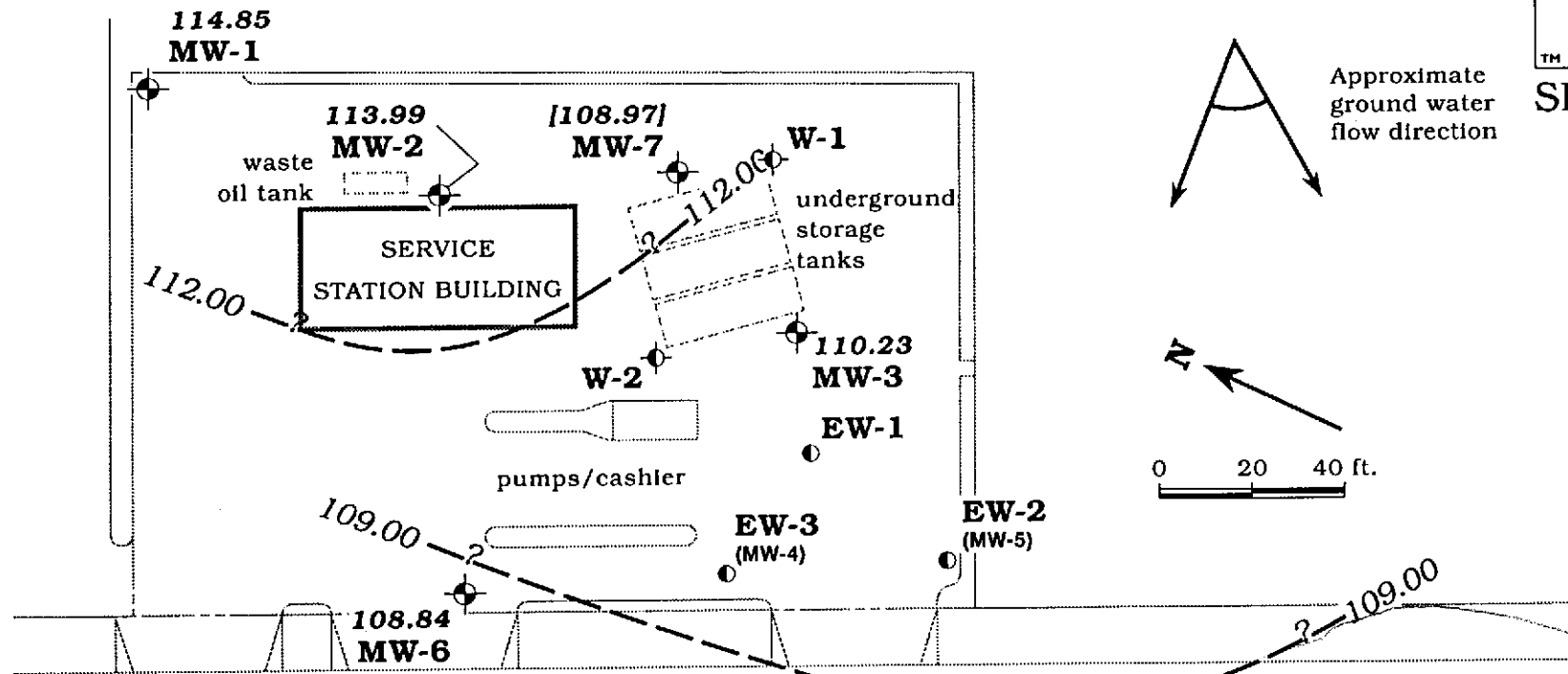
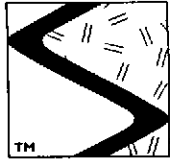


*Argy Mena*  
Argy Mena  
Staff Geologist

*Chris J. Bramer*  
Chris J. Bramer  
Professional Engineer #C48846

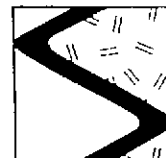
AJM/CJB/wmc  
28904QM.FE4

- Attachments
- Figure
  - Tables
  - SES Standard Operating Procedure
  - Chain of Custody Document and Laboratory Analytic Reports



EXPLANATION	
⊕ MW-11	Monitoring well
● EW-3 (MW-4)	Extraction well (former well designation)
⊕ W-2	Observation well
108.61	Ground water elevation, in feet
[108.97]	Ground water elevation not used in contouring
- 109.00	Ground water elevation contour, dashed where inferred, queried where uncertain

Figure 1. Monitoring Well Locations and Ground Water Elevation Contour Map - January 13, 1994 - Chevron Service Station #9-8139, 16304 Foothill Boulevard, San Leandro, California



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Table 1. Water Level Data and Well Construction Details - Chevron Service Station #9-8139, 16304 Foothill Boulevard, San Leandro, California

Well ID	Date Measured	DTW (ft)	TOC (ft)	GWE (msl)	Product Thickness* (ft)	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval
						-----feet below grade----->		
MW-1	3/23/90	12.92	127.09	114.17	0	25 - 30	22 - 30	20.5 - 22
	9/6/90	14.68		112.41	0			
	9/25/90	15.01		112.08	0			
	11/29/90	14.82		112.27	0			
	2/20/91	14.29		112.80	0			
	4/19/91	12.16		114.93	0			
	5/22/91	13.69		113.40	0			
	8/22/91	15.38		111.71	0			
	11/13/91	15.80		111.29	0			
	1/30/92	14.71		112.38	0			
	4/23/92	12.22		114.87	0			
	7/27/92	14.30		112.79	0			
	10/26/92	15.90		111.19	0			
	1/29/93	10.51		116.58	0			
	4/30/93	9.90		117.19	0			
	7/14/93	12.28		114.81	0			
	10/27/93	15.53		111.56	0			
1/13/94	12.24	114.85	0					
MW-2	3/23/90	12.40	125.98	113.58	0	25 - 30	23 - 31.5	21.5 - 23
	9/6/90	14.85		111.13	0			
	9/25/90	14.80		111.18	0			
	11/29/90	14.40		111.58	0			
	2/20/91	14.09		111.89	0			
	4/19/91	12.62		113.36	0			
	5/22/91	12.98		113.00	0			
	8/22/91	14.93		111.05	0			
	11/13/91	15.42		110.56	0			
	1/30/92	14.70		111.28	0			
	4/23/92	13.83		112.15	0			
	7/27/92	15.30		110.68	0			
	10/26/92	15.62		110.36	0			
	1/29/93	9.26		116.72	0			
	4/30/93	9.66		116.32	0			
	7/14/93	11.90		114.08	0			
	10/27/93	13.49		112.49	0			
1/13/94	11.99	113.99	0					



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

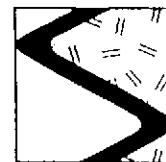
Well ID	Date Measured	DTW (ft)	TOC (ft)	GWE (msl)	Product Thickness* (ft)	Screen Interval -----feet below grade-----	Sand Pack Interval	Bentonite/Grout Interval
MW-3	3/23/90	17.50	127.84	110.34	0	15.5 - 25.5	12.5 - 25.5	10.5 - 12.5
	9/6/90	18.72	126.77	108.05	0			
	9/25/90	18.40		108.37	0			
	11/29/90	18.97		107.80	0			
	2/20/91	19.20		107.57	0			
	4/19/91	17.81		108.96	0			
	5/22/91	17.88		108.89	0			
	8/1/91	19.23		107.54	0			
	8/22/91	20.17		106.60	0			
	11/13/91	19.95		106.82	0			
	1/30/92	19.14		107.63	0			
	4/23/92	17.75		109.02	0			
	7/27/92	19.00		107.77	0			
	10/26/92	19.62		107.15	0			
	1/29/93	15.95		110.82	0			
	4/30/93	15.67		111.10	0			
	7/14/93	16.83		109.94	0			
10/27/93	17.70		109.07	0				
1/13/94	16.54		110.23	0				
MW-4	3/23/90	16.02	125.22	109.20	0	14 - 22	11 - 23	10 - 11
	9/6/90	17.35		107.87	0			
	9/25/90	17.48		107.74	0			
	11/29/90	17.61		107.61	0			
	2/20/91	17.81		107.41	0			
	4/19/91	15.80		109.42	0			
5/22/91 <sup>2</sup>	16.68		108.54	0				
MW-5	3/23/90	16.89	125.85	108.96	0	14.5 - 24	13 - 25.5	11 - 13
	9/7/90	18.46		107.42 <sup>1</sup>	0.04			
	11/29/90	18.87		107.54 <sup>1</sup>	0.71			
	2/20/91	18.91		107.31 <sup>1</sup>	0.47			
	4/19/91	16.99		109.24 <sup>1</sup>	0.48			
	9/25/90	19.30		107.58 <sup>1</sup>	1.3			
5/22/91 <sup>2</sup>	17.69		108.42 <sup>1</sup>	0.33				



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

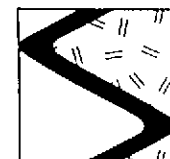
Well ID	Date Measured	DTW (ft)	TOC (ft)	GWE (msl)	Product Thickness* (ft)	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval
						-----feet below grade----->		
MW-6	3/23/90	18.51	124.18	105.67	0	24.5 - 29.5	23 - 34	21 - 23
	9/7/90	16.18		108.00	0			
	9/25/90	16.42		107.76	0			
	11/29/90	16.11		108.07	0			
	2/20/91	16.09		108.09	0			
	4/19/91	15.15		109.03	0			
	5/22/91	15.41		108.77	0			
	8/23/91	17.80		106.38	0			
	11/14/91	16.52		107.66	0			
	1/30/92	16.48		107.70	0			
	4/23/92	16.20		107.98	0			
	7/27/92	16.52		107.66	0			
	10/26/92	17.12		107.06	0			
	1/29/93	13.13		111.05	0			
	4/30/93	14.86		109.32	0			
	7/14/93	14.61		109.57	0			
	10/27/93	15.38		108.80	0			
1/13/94	<b>15.34</b>	<b>108.84</b>	<b>0</b>					
MW-7	3/23/90	21.40	126.86	105.46	0	21.5 - 27	20.5 - 26.5	18.5 - 20.5
	9/7/90	18.38		108.48	0			
	9/25/90	19.25		107.61	0			
	11/29/90	18.55		108.31	0			
	2/20/91	18.55		108.31	0			
	4/19/91	17.33		109.53	0			
	5/22/91	17.42		109.44	0			
	8/22/91	19.05		107.81	0			
	11/13/91	21.84		105.02	0			
	1/30/92	22.42		104.44	0			
	4/23/92	22.04		104.82	0			
	7/27/92	22.24		104.62	0			
	10/26/92	22.11		104.75	0			
	1/29/93	17.07		109.79	0			
	4/30/93	14.86		112.00	0			
	7/14/93	16.10		110.76	0			
	10/27/93	18.71		108.15	0			
1/13/94	<b>17.89</b>	<b>108.97</b>	<b>0</b>					



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

Well ID	Date Measured	DTW (ft)	TOC (ft)	GWE (msl)	Product Thickness* (ft)	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval
						-----feet below grade----->		
MW-8	9/7/90	16.07	123.61	107.54	0	22 - 30.5	20.5 - 31.5	17.5 - 20.5
	9/25/90	16.20		107.41	0			
	11/29/90	16.30		107.31	0			
	2/20/91	16.32		107.29	0			
	4/19/91	14.71		108.90	0			
	5/22/91	15.42		108.19	0			
	8/22/91	17.15		106.46	0			
	11/14/91	16.99		106.62	0			
	1/30/92	16.30		107.31	0			
	4/23/92	15.05		108.56	0			
	7/27/92	16.08		107.53	0			
	10/26/92	16.72		106.89	0			
	1/29/93	12.82		110.79	0			
	4/30/93	13.54		110.07	0			
	7/14/93	14.65		108.96	0			
	10/27/93	15.04		108.57	0			
1/13/94	15.14	108.47	0					
MW-9	8/22/91	17.60	124.20	106.60	0	17 - 27	15 - 27	13 - 15
	11/14/91	17.48		106.72	0			
	1/30/92	16.71		107.49	0			
	4/23/92	15.23		108.97	0			
	7/27/92	16.72		107.48	0			
	10/26/92	17.22		106.98	0			
	1/29/93	13.39		110.81	0			
	4/30/93	14.00		110.20	0			
	7/14/93	15.08		109.12	0			
	10/27/93	15.62		108.58	0			
	1/13/94	15.59		108.61	0			
MW-10	7/27/92	17.52	125.03	107.51	0	14.5 - 30	12 - 30	9 - 12
	10/27/92	18.06		106.97	0			
	1/29/93	14.15		110.88	0			
	4/30/93	14.68		110.35	0			
	7/14/93	15.80		109.23	0			
	10/27/93	16.33		108.70	0			
	1/13/94	16.29		108.74	0			



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

Well ID	Date Measured	DTW (ft)	TOC (ft)	GWE (msl)	Product Thickness* (ft)	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval
						<-----feet below grade----->		
MW-11	7/27/92	15.38	122.92	107.54	0	14.5 - 30	11 - 30	8 - 11
	10/26/92	15.97		106.95	0			
	1/29/93	12.24		110.68	0			
	4/30/93	12.77		110.15	0			
	7/14/93	13.84		109.08	0			
	10/27/93	14.23		108.69	0			
	<b>1/13/94</b>	<b>14.24</b>		<b>108.68</b>	<b>0</b>			
EW-1	8/1/91	17.54	124.95	107.41	0	18 - 26.5	17 - 27	15 - 17
EW-2	8/1/91	18.07	125.79	107.72	0	12.5 - 22.5	11.5 - 28	10.5 - 11.5
EW-3	8/1/91	17.49	125.22	107.73	0	12.5 - 22.5	10.5 - 28	10.5 - 11.5

EXPLANATION:

DTW = Depth to water  
 TOC = Top of casing elevation  
 GWE = Ground water elevation  
 msl = Measurements referenced relative to mean sea level  
 --- = Not applicable/Not measured

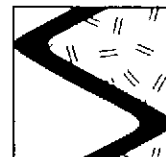
NOTES:

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

Well construction details were compiled from Burlington Environmental, Inc. boring logs dated November 1989, December 1989, May 1990, August 1990, June 1991 and April 1992.

- \* Product thickness was measured on and after January 29, 1993 with an MMC flexi-dip interface probe.
- <sup>1</sup> 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.
- <sup>2</sup> 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 Ground Water - Chevron Service Station #9-8139, 16304 Foothill Boulevard, San Leandro, California

Well ID	Date Sampled	Analytic Lab	Analytic Method	TPPH(G)	B	T	E	X	EDB
-----ppb-----									
MW-1	12/5/89	UNK	8015/8020/413/504 <sup>1,2</sup>	<500	<0.5	<0.5	<0.5	<0.5	<0.5
	5/24/90	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	9/6/90	SAL	8015/8020/504	<50	<0.5	0.8	<0.5	0.5	<0.5
	11/29/90	SAL	8015/8020	<50	0.7	0.9	<0.5	1	---
	2/20/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/22/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/22/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/13/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/31/92	SPA	8015/8020	<50	0.5	<0.5	<0.5	0.5	---
	4/23/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/27/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/26/92	SPA	8015/8020	<50	0.6	<0.5	<0.5	<0.5	---
	1/29/93	GTEL	8015/8020	<50	3	3	0.7	3	---
	4/30/93	GTEL	8015/8020	<50	<0.5	0.7	<0.5	1	---
	7/14/93	GTEL	8015/8020	<50	0.7	1	<0.5	3	---
	10/27/93	GTEL	8015/8020	<50	0.9	2	<0.5	2	---
	1/13/94	GTEL	8015/8020	<50	<0.5	<0.5	0.9	<0.5	<0.5
MW-2	12/5/89	UNK	8015/8020/413/504 <sup>1,2</sup>	<500	<0.5	<0.5	<0.5	0.9	<0.5
	5/24/90	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	9/6/90	SAL	8015/8020/504	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	11/29/90	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	2/20/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/22/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/22/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/13/91	SAL	8015/8020	58	<0.5	0.5	0.7	2.3	---
	1/31/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/23/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/27/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	1.1	---
	10/26/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/93	GTEL	8015/8020	<50	3	8	1	5	---
	4/30/93 <sup>3</sup>	GTEL	8015/8020	<1,300	<13	<13	<13	<13	---
	7/14/93	GTEL	8015/8020	<50	0.8	2	0.8	4	---
	10/27/93	GTEL	8015/8020	<50	1	2	1	2	---
	1/13/94	GTEL	8015/8020	<50	<0.5	0.6	<0.5	<0.5	---



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Table 2. Analytic Results for Ground Water - Chevron Service Station #9-8139, 16304 Foothill Boulevard, San Leandro, California  
(continued)

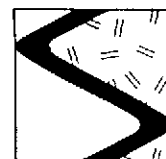
Well ID	Date Sampled	Analytic Lab	Analytic Method	TPPH(G)	B	T	-----ppb-----		
							E	X	EDB
MW-3 (d)	12/5/89	UNK	8015/8020/504	24,000	2,400	1,800	360	2,600	<0.5
	12/5/89	UNK	8015/8020/413/504 <sup>2</sup>	24,000	2,500	1,900	390	2,600	<0.5
	5/24/90	SAL	8015/8020	9,000	2,600	1,700	250	1,500	---
	5/24/90	SAL	8015/8020	10,000	2,600	1,800	260	1,600	---
	9/6/90	SAL	8015/8020/504	3,500	900	550	110	460	<0.5
	11/29/90	SAL	8015/8020	9,200	1,100	1,100	210	1,100	---
	2/20/91	SAL	8015/8020	8,800	960	780	200	920	---
	5/22/91	SAL	8015/8020	28,000	5,800	1,200	460	2,300	---
	8/22/91	SAL	8015/8020	21,000	3,100	2,000	480	2,000	---
	8/22/91	SAL	8015/8020	19,000	2,700	1,800	420	1,700	---
	11/13/91	SAL	8015/8020	18,000	2,400	1,200	450	2,200	---
	1/31/92	SPA	8015/8020	18,000	3,800	920	700	2,600	---
	4/23/92	SPA	8015/8020	46,000	5,000	1,900	1,000	3,500	---
	7/27/92	SPA	8015/8020	26,000	4,900	1,100	1,200	3,600	---
	10/26/92	SPA	8015/8020	6,600	1,100	41	220	570	---
	1/29/93	GTEL	8015/8020	32,000	5,900	2,900	1,300	5,000	---
	4/30/93	GTEL	8015/8020	14,000 <sup>4</sup>	6,100	98	870	2,400	---
	7/14/93	GTEL	8015/8020	12,000 <sup>4</sup>	3,100	1,100	720	2,900	---
	10/27/93	GTEL	8015/8020	19,000	7,800	400	1,500	3,400	---
1/13/94	GTEL	8015/8020	51,000	3,700	140	720	1,800	---	
MW-4**	12/5/89	UNK	8015/8020/504	19,000	390	1,300	460	1,800	<0.5
	5/24/90	SAL	8015/8020	4,500	210	440	140	480	---
	9/6/90	SAL	8015/8020/504	6,000	680	520	170	580	<0.5
	11/29/90	SAL	8015/8020	15,000	800	1,000	430	1,700	---
	2/20/91	SAL	8015/8020	15,000	640	390	420	1,600	---
	2/20/91	SAL	8015/8020	15,000	680	410	430	1,600	---
	5/22/91	SAL	8015/8020	9,800	580	140	310	740	---
	5/22/91	SAL	8015/8020	7,200	520	130	270	670	---
MW-5**	5/25/90	SAL	8015/8020/504	28,000	920	1,100	460	1,300	2.4
	9/7/90	SAL	8015/8020	---	---	---	---	---	---
	11/29/90	SAL	8015/8020	---	---	---	---	---	---
	2/20/91	SAL	8015/8020	---	---	---	---	---	---
	5/22/91	SAL	8015/8020	---	---	---	---	---	---



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Table 2. Analytic Results for Ground Water - Chevron Service Station #9-8139, 16304 Foothill Boulevard, San Leandro, California  
(continued)

Well ID	Date Sampled	Analytic Lab	Analytic Method	TPPH(G)	B	T	ppb		
							E	X	EDB
MW-6	5/25/90	SAL	8015/8020/504	<50	<2	<3	<3	<3	<0.02
	9/7/90	SAL	8015/8020/504	<50	<2	<3	<3	<3	<0.05
	11/29/90	SAL	8015/8020/504	<50	<0.5	<0.5	<0.5	<0.5	<0.05
	2/20/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/22/91	SAL	8015/8020	<50	0.5	0.7	<0.5	1.1	---
	8/23/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/14/91	SAL	8015/8020/504	<50	<0.5	<0.5	<0.5	<0.5	<0.02
	11/14/91	SAL	8015/8020/504	<50	<0.5	0.6	<0.5	1.1	<0.05
	1/31/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	--
	(d) 1/31/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/23/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	(d) 4/23/92	SPA	8015/8020	---	---	---	---	---	---
	7/27/92	SPA	8015/8020	<50	1.2	0.6	<0.5	1.9	---
	10/27/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
1/29/93	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
4/30/93	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	0.6	---	
7/14/93	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
10/27/93	GTEL	8015/8020	<50	0.9	1	0.6	1	---	
1/13/94	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
MW-7	5/25/90	SAL	8015/8020/504	<50	<2	<3	<3	<3	<0.02
	9/27/90	SAL	8015/8020/504	<50	<2	<3	<3	<3	<0.05
	(d) 9/27/90	SAL	8015/8020/504	<50	<2	<3	<3	<3	<0.05
	11/29/90	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	2/20/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/22/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/22/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/13/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/31/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/23/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/27/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/26/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/93	GTEL	8015/8020	<50	4	13	2	8	---
	4/30/93	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	0.6	---
7/14/93	GTEL	8015/8020	<50	<0.5	1	<0.5	2	---	
10/27/93	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
1/13/94	GTEL	8015/8020	<50	<0.5	0.9	<0.5	1	---	



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Table 2. Analytic Results for Ground Water - Chevron Service Station #9-8139, 16304 Foothill Boulevard, San Leandro, California (continued)

Well ID	Date Sampled	Analytic Lab	Analytic Method	TPPH(G)	B	T	E	X	EDB
				-----ppb-----					
MW-8 (d)	9/7/90	SAL	8015/8020/504	<50	<0.5	<0.5	<0.5	<0.5	<0.05
	11/29/90	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/29/90	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	2/20/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/22/91	SAL	8015/8020	<50	0.6	<0.5	<0.5	1	---
	8/23/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/14/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/30/92	SPA	8015/8020	<50	1	0.7	<0.5	1.1	---
	4/24/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/27/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/27/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/93	GTEL	8015/8020	1,400	470	470	37	160	---
	4/30/93 <sup>3</sup>	GTEL	8015/8020	1,600	<13	15	18	29	---
	7/14/93	GTEL	8015/8020	<50	<0.5	0.7	<0.5	2	---
	10/27/93	GTEL	8015/8020	<50	3	4	2	4	---
	1/13/94	GTEL	8015/8020	<50	<0.5	4	<0.5	<0.5	---
MW-9	8/22/91	SAL	8015/8020/504	9,600	46	170	98	1,200	<0.05
	11/14/91	SAL	8015/8020/504	11,000	130	58	86	1,500	<0.05
	1/30/92	SPA	8015/8020	11,000	210	29	110	1,900	---
	4/24/92	SPA	8015/8020	17,000	180	25	100	1,900	---
	7/27/92	SPA	8015/8020	2,800	59	1.6	18	280	---
	10/27/92	SPA	8015/8020	3,200	38	<0.5	19	200	---
	1/29/93	GTEL	8015/8020	1,300	23	6	8	100	---
	4/30/93 <sup>3</sup>	GTEL	8015/8020	<1,300	<13	<13	<13	58	---
	7/14/93	GTEL	8015/8020	1,300	25	4	15	120	---
	10/27/93	GTEL	8015/8020	1,100	21	10	19	73	---
	1/13/94	GTEL	8015/8020	80	0.7	3	0.6	3	---
	MW-10	7/27/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
10/27/92		SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
1/29/93		GTEL	8015/8020	<50	<0.5	<0.5	<0.5	0.7	---
4/30/93		GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
7/14/93		GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
10/27/93		GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
1/13/94		GTEL	8015/8020	<50	<0.5	0.5	<0.5	<0.5	---



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Table 2. Analytic Results for Ground Water - Chevron Service Station #9-8139, 16304 Foothill Boulevard, San Leandro, California (continued)

Well ID	Date Sampled	Analytic Lab	Analytic Method	TPPH(G)	B	T	-----ppb-----		
							E	X	EDB
MW-11	7/27/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/27/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/93	GTEL	8015/8020	<50	8	16	2	10	---
	4/30/93	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/14/93	GTEL	8015/8020	<50	<0.5	0.7	<0.5	1	---
	10/27/93	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/13/94	GTEL	8015/8020	<50	<0.5	1	<0.5	<0.5	---
EW-1	5/25/90	SAL	8015/8020/504	3,900	260	430	64	340	0.03
	10/27/93	GTEL	8015/8020	350	<0.5	<0.5	<0.5	<0.5	---
	1/13/94	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
EW-3	10/27/93	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/13/94	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
Rinseate	12/5/89	UNK	8015/8020/413/504 <sup>2</sup>	<500	<0.5	<0.5	<0.5	<0.5	<0.05
	5/24/90	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	9/7/90	SAL	8015/8020/504	<50	<0.5	<0.5	<0.5	<0.5	<0.05
	2/20/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/22/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/22/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/13/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/30/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/23/92	SPA	8015/8020	---	---	---	---	---	---
Trip Blank	2/20/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/22/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/22/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/13/91	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/30/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/23/92	SPA	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/27/92	SPA	8015/8020	<0.5	<0.5	<0.5	<0.5	<0.5	---
	10/26/92	SPA	8015/8020	<0.5	<0.5	<0.5	<0.5	<0.5	---
TB-LB	1/29/93	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/30/93	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/14/93	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/27/93	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/13/94	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---



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Table 2. Analytic Results for Ground Water - Chevron Service Station #9-8139, 16304 Foothill Boulevard, San Leandro, California (continued)

Well ID	Date Sampled	Analytic Lab	Analytic Method	TPPH(G)	B	T	E	X	EDB
-----ppb-----									
Baller Blank	1/29/93	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
BB	4/30/93	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/14/93	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/27/93	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/13/94	GTEL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---

EXPLANATION:

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  
 --- = Not analyzed/Not applicable  
 (d) = Duplicate sample

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

ANALYTIC LABORATORY:

UNK = Unknown  
 SAL = Superior Analytic Precision, Inc. of San Francisco and Martinez, California  
 SPA = Superior Precision Analytical, Inc. of San Francisco and Martinez, California  
 GTEL = GTEL Environmental Laboratories, Inc. of Concord, California

NOTES:

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

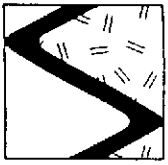
\*\* Monitoring well was converted to a ground water extraction well on June 10, 1991. MW-4 redesignated EW-3. MW-5 redesignated EW-2.

<sup>1</sup> TPH(D) analyzed during this event. Not detected at detection limits of 1,000 ppb.

<sup>2</sup> O&G analyzed during this event. Not detected at detection limit of 5,000 ppb.

<sup>3</sup> Detection limit raised due to surfactants in sample.

<sup>4</sup> Uncategorized compound not included in gasoline hydrocarbon concentration.



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Table 3. 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
MW-2	4/30/93	GTEL	8010	77	<0.5	<0.5	<0.5	ND <sup>1</sup>

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:

<sup>1</sup> Other HVOC's not detected at detection limits of 0.5 to 1.0 ppb.



## **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  $\pm 0.5^{\circ}\text{F}$ , 0.1 or 5%, respectively).

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

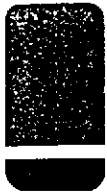
Ground water samples are collected from the wells with steam-cleaned Teflon bailers. The water samples are decanted into the appropriate container for the analysis to be performed. Pre-preserved sample containers may be used or the analytic laboratory may add preservative to the sample upon arrival. 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  $4^{\circ}\text{C}$ ) 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 and bailer blank accompanies each sampling set, or 5% trip blanks and 5% bailer blanks are included for sets of greater than 20 samples. The bailer blank is prepared by pouring previously boiled water into a steam-cleaned Teflon bailer prior to sampling a well. The trip and bailer blanks are analyzed for some or all of the same compounds as the ground water samples.







# GTEL

ENVIRONMENTAL  
LABORATORIES, INC.

4080 Pike Lane  
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Client Number: SIE01CHV08  
Consultant Project Number: 9-8139  
Facility Number: 1-289-04  
Project ID: 16304 Foothill Blvd.  
San Leandro  
Work Order Number: C4-01-0190

January 24, 1994

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

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 01/14/94.

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 California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning 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

Client Number: SIE01CHV08  
 Consultant Project Number: 9-8139  
 Facility Number: 1-289-04  
 Project ID: 16304 Foothill Blvd.  
 San Leandro  
 Work Order Number: C4-01-0190

**Table 1 (continued)**

**ANALYTICAL RESULTS**

**Aromatic Volatile Organics and**

**Total Petroleum Hydrocarbons as Gasoline in Water**

**EPA Methods 5030, 8020, and Modified 8015a**

GTEL Sample Number		05	06	07	08 <sup>b</sup>
Client Identification		MW-6	MW-7	MW-8	MW-10
Date Sampled		01/13/94	01/13/94	01/13/94	01/13/94
Date Analyzed		01/16/94	01/16/94	01/16/94	01/16/94
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	<0.5	<0.5	<0.5
Toluene	0.5	<0.5	0.9	4	0.5
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5
Xylene, total	0.5	<0.5	1	<0.5	<0.5
TPH as Gasoline	50	<50	<50	<50	<50
Detection Limit Multiplier		1	1	1	1
BFB surrogate, % recovery		86.0	86.4	86.9	86.1

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual procedures. Bromofluorobenzene surrogate recovery acceptability limits are 70-130%.
- b. Uncategorized compound is not included in the hydrocarbon gasoline concentration.

Client Number: SIE01CHV08  
 Consultant Project Number: 9-8139  
 Facility Number: 1-289-04  
 Project ID: 16304 Foothill Blvd.  
 San Leandro  
 Work Order Number: C4-01-0190

**Table 1 (continued)**

**ANALYTICAL RESULTS**

**Aromatic Volatile Organics and**

**Total Petroleum Hydrocarbons as Gasoline in Water**

**EPA Methods 5030, 8020, and Modified 8015<sup>a</sup>**

GTEL Sample Number		09	10	11	12
Client Identification		MW-11	MW-9	MW-3	EW-1
Date Sampled		01/13/94	01/13/94	01/13/94	01/13/94
Date Analyzed		01/16/94	01/16/94	01/15/94	01/15/94
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	0.7	3700	<0.5
Toluene	0.5	1	3	140	<0.5
Ethylbenzene	0.5	<0.5	0.6	720	<0.5
Xylene, total	0.5	<0.5	3	1800	<0.5
TPH as Gasoline	50	<50	80	51000	<50
Detection Limit Multiplier		1	1	50	1
BFB surrogate, % recovery		86.7	85.4	86.8	85.7

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual procedures. Bromofluorobenzene surrogate recovery acceptability limits are 70-130%.

Client Number: SIE01CHV08  
 Consultant Project Number: 9-8139  
 Facility Number: 1-289-04  
 Project ID: 16304 Foothill Blvd.  
 San Leandro  
 Work Order Number: C4-01-0190

**Table 1 (continued)**

**ANALYTICAL RESULTS**

**Aromatic Volatile Organics and**

**Total Petroleum Hydrocarbons as Gasoline in Water**

**EPA Methods 5030, 8020, and Modified 8015<sup>a</sup>**

GTEL Sample Number		13	M011594		
Client Identification		EW-3	METHOD BLANK		
Date Sampled		01/13/94	--		
Date Analyzed		01/16/94	01/15/94		
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	<0.5		
Toluene	0.5	<0.5	<0.5		
Ethylbenzene	0.5	<0.5	<0.5		
Xylene, total	0.5	<0.5	<0.5		
TPH as Gasoline	50	<50	<50		
Detection Limit Multiplier		1	1		
BFB surrogate, % recovery		87.0	86.0		

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual procedures. Bromofluorobenzene surrogate recovery acceptability limits are 70-130%.

Client Number: SIE01CHV08  
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 San Leandro  
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### QC Matrix Spike and Duplicate Spike Results

Matrix: Water

Analyte	Sample ID	Spike Amount	Units	Recovery, %	Duplicate Recovery, %	RPD, %	Control Limits
<b>Modified EPA 8020:</b>							
Benzene	C4010168-03	20.0	ug/L	82.5	81.5	1.2	57.3 - 138
Toluene	C4010168-03	20.0	ug/L	90.0	88.0	2.2	63.0 - 134
Ethylbenzene	C4010168-03	20.0	ug/L	89.0	88.0	1.1	59.3 - 137
Xylene, total	C4010168-03	60.0	ug/L	90.8	89.0	1.1	59.3 - 144

Client Number: SIED1CHV08  
 Consultant Project Number: 9-8139  
 Facility Number: 1-289-04  
 Project ID: 16304 Foothill Blvd.  
 San Leandro  
 Work Order Number: C4-01-0190

**Table 1**  
**ANALYTICAL RESULTS**  
 Aromatic Volatile Organics and  
 Total Petroleum Hydrocarbons as Gasoline in Water  
 EPA Methods 5030, 8020, and Modified 8015<sup>a</sup>

GTEL Sample Number		01	02	03	04
Client Identification		TB-LB	BB	MW-1	MW-2
Date Sampled		01/13/94	01/13/94	01/13/94	01/13/94
Date Analyzed		01/15/94	01/15/94	01/15/94	01/15/94
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	<0.5	<0.5	<0.5
Toluene	0.5	<0.5	<0.5	0.9	0.6
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5
Xylene, total	0.5	<0.5	<0.5	<0.5	<0.5
TPH as Gasoline	50	<50	<50	<50	<50
Detection Limit Multiplier		1	1	1	1
BFB surrogate, % recovery		89.7	90.2	88.9	88.4

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual procedures. Bromofluorobenzene surrogate recovery acceptability limits are 70-130%.