



Chevron

February 24, 1997

Ms. Jennifer Eberle
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Chevron Products Company
6001 Bollinger Canyon Road
Building L
San Ramon, CA 94583
P.O. Box 6004
San Ramon, CA 94583-0904

Marketing - Sales West
Phone 510 842-9500

**Re: Chevron Service Station #9-2506
2630 Broadway
Oakland, California**

Dear Ms. Eberle:

Enclosed is the Third Quarter (Semi-Annual) Groundwater Monitoring Report for 1996, prepared by our consultant Gettler-Ryan, Inc. for the above noted facility. Ground water samples were analyzed for TPH-g, BTEX, and MtBE. As previously agreed, sampling for monitoring wells B-2 and B-4 have been suspended.


Dissolved concentrations of BTEX constituents were below method detection limits in monitoring wells B-10, B-11 and B-12. In wells B-7 and B-8 the concentrations of BTE constituents were below method detection limits. Monitoring wells B-1, B-5, B-6 and B-9 showed a decline in the benzene constituent from the previous sampling event. Only well B-3 showed an increase of the benzene constituent from the previous sampling event.

Depth to ground water varied from 12.56 to 16.37 feet below grade, with a direction of flow appearing to be divided, i.e. to the northwest and easterly.

For your information, this site is planned to be reconstructed late this year, depending on permit approval. As previously noted the sampling frequency is biannually and the next sampling event is scheduled in March.

If you have any questions or comments, call me at (510) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY


Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

cc. Mr. Bill Scudder, Chevron



GETTLER-RYAN INC. ENVIRONMENTAL PROTECTION

27 FEB 26 PM 1:10

October 30, 1996

Job #5203.80

Mr. Phil Briggs
Chevron Products Company
P.O. Box 5004
San Ramon, CA 94583

Re: Semi-Annual Groundwater Monitoring & Sampling Report
Chevron Service Station #9-2506
2630 Broadway
Oakland, California

Dear Mr. Briggs:

This report documents the semi-annual groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On September 25, 1996, field personnel were on-site to monitor and sample ten wells (B-1, B-3, B-5 through B-12) at Chevron Service Station #9-2506 located at 2630 Broadway in Oakland, California.

Static groundwater levels were measured on September 25, 1996. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the site wells. Static water level data and groundwater elevations are presented in Table 1. A potentiometric map is included as Figure 1.

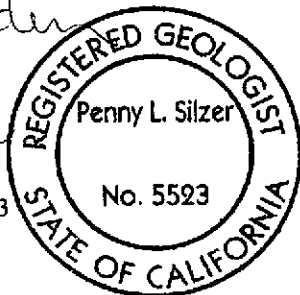
Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets for this event are also attached. The samples were analyzed by NEI/GTEL Environmental Laboratories, Inc. Analytical results are presented in Table 1. The chain of custody document and laboratory analytical reports are attached.

Thank you for allowing Gettler-Ryan to provide environmental services to Chevron. Please call if you have any questions or comments regarding this report.

Sincerely,

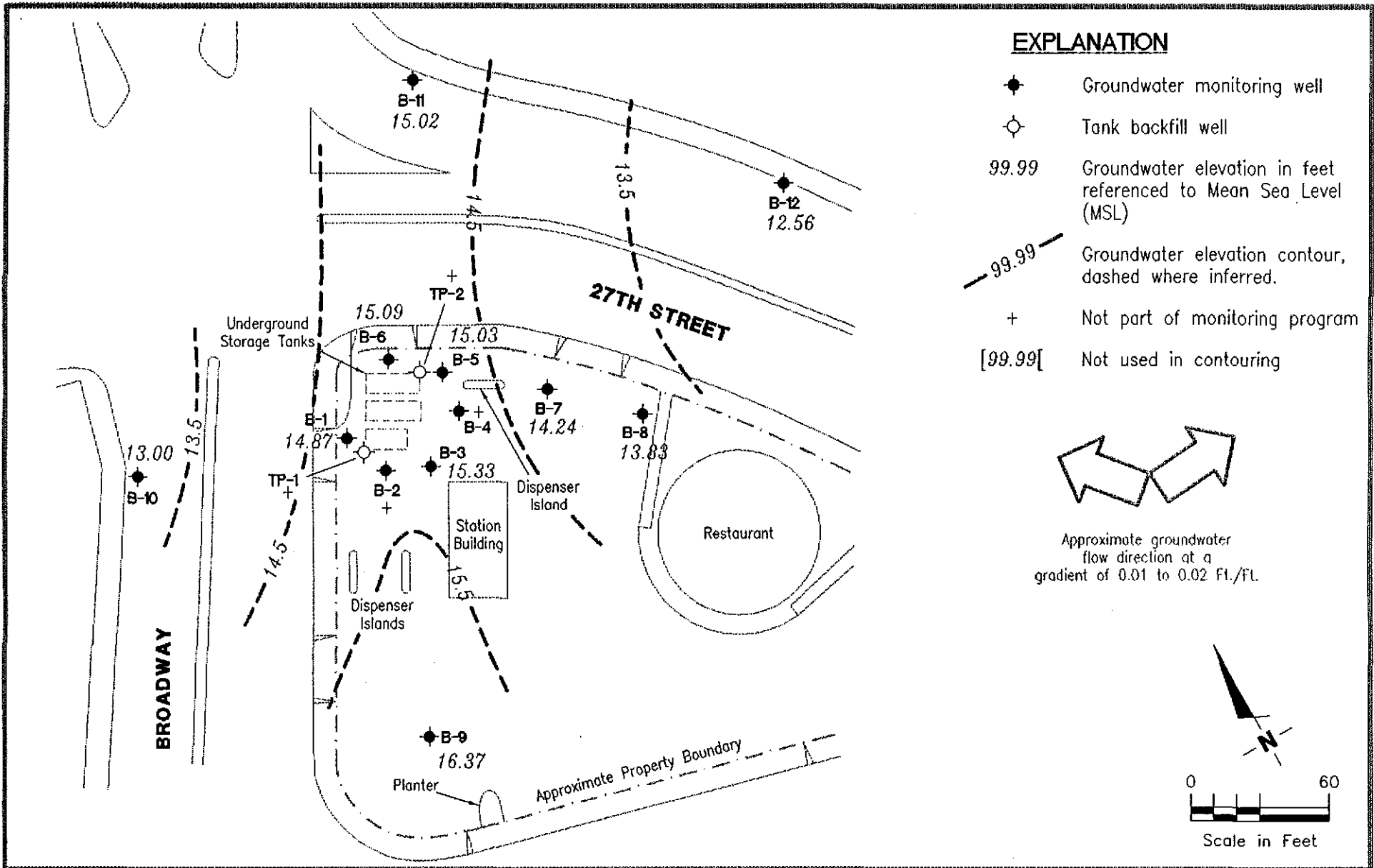
Deanna L. Harding
Deanna L. Harding
Project Coordinator

Penny L. Silzer
Penny L. Silzer
Senior Geologist, R.G. No. 5523



DLH/PLS/dlh
5203.QML

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

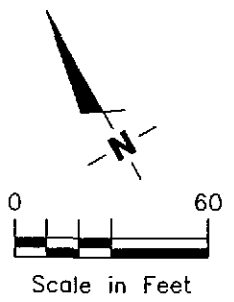


EXPLANATION

- ◆ Groundwater monitoring well
- ⊕ Tank backfill well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- - - 99.99 - - - Groundwater elevation contour, dashed where inferred.
- + Not part of monitoring program
- [99.99] Not used in contouring



Approximate groundwater flow direction at a gradient of 0.01 to 0.02 Ft./Ft.



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Chevron Service Station No. 9-2506
2630 Broadway
Oakland, California

FIGURE

1

JOB NUMBER
5203

REVIEWED BY

DATE
September 25, 1996

REVISED DATE



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	←-----ppb----->				MTBE
						B	T	E	X	
B-1/										
23.00 ¹	3/18/82	7.81	15.19	0	---	---	---	---	---	---
	3/25/82	8.67	14.33	0	---	---	---	---	---	---
	5/21/82	9.30	13.70	0	---	---	---	---	---	---
	5/26/82	10.18	12.82	0	---	---	---	---	---	---
	6/24/82	9.92	13.08	0	---	---	---	---	---	---
	9/9/93	9.90	13.10	0	8,800 ²	240	280	<2.5	<7.5	---
	12/2/93	9.10	13.90	0	1,100	100	7.9	3.4	3.9	---
	3/17/94	9.41	13.59	0	1,600	370	13	13	26	---
	6/10/94	9.89	13.11	0	1,400	270	24	18	78	---
	9/15/94	11.24	11.76	0	4,100	740	<5	270	300	---
25.67 ³	12/28/94	9.25	16.42	0	1,200	200	32	37	79	---
	3/29/95	8.32	17.35	0	13,000	540	54	77	120	---
	6/5/95	9.72	15.95	0	3,000	610	<25	<25	<25	---
	9/21/95	10.92	14.75	0	630 ⁶	5.4	<0.5	1.3	6.1	---
	12/22/95	10.14	15.53	0	<50	<0.50	<0.50	<0.50	<0.50	40,000
	3/22/96	8.83	16.84	0	<1,200 ¹¹	150	<12	<12	<12	32,000
	9/25/96	10.80	14.87	0	28,000¹²	19	<12	<12	<12	38,000
<i>weird Δs</i>										
B-2/										
22.28 ¹	3/18/82	3.83	18.45	0	---	---	---	---	---	---
	3/25/82	5.79	16.49	0	---	---	---	---	---	---
	5/21/82	4.85	17.43	0	---	---	---	---	---	---
	5/26/82	8.53	13.75	0	---	---	---	---	---	---
	6/24/82	8.40	13.88	0	---	---	---	---	---	---
	9/9/93	6.46	15.82	0	4,700	470	630	180	590	---
	12/2/93	5.41	16.87	0	2,200	59	27	110	350	---
	3/17/94	7.44	14.84	0	1,800	52	33	97	320	---
	6/10/94	8.15	14.13	0	1,200	37	48	20	93	---
	9/15/94	10.00	12.28	0	4,900	710	12	340	450	---
25.13 ³	12/28/94	7.32	17.81	0	2,600	63	49	56	370	---
	3/29/95 ⁵	---	---	---	---	---	---	---	---	---
B-3/										
21.78 ¹	3/18/82	5.65	16.13	0	---	---	---	---	---	---
	3/25/82	5.75	16.03	0	---	---	---	---	---	---
	5/21/82	5.58	16.20	0	---	---	---	---	---	---
	5/26/82	7.99	13.79	0	---	---	---	---	---	---
	6/24/82	7.68	14.10	0	---	---	---	---	---	---
	9/9/93	5.99	15.79	0	7,800	500	760	180	720	---
	12/2/93	5.70	16.08	0	9,800	790	870	380	1,500	---
	3/17/94	6.50	15.28	0	2,400	88	55	74	270	---



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California
(continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	←-----ppb----->				
						B	T	E	X	MTBE
B-3	6/10/94	7.23	14.55	0	2,300	110	95	84	240	---
(cont)	9/15/94	9.16	12.62	0	5,000	670	9.3	340	410	---
24.35 ³	12/28/94	6.44	17.91	0	4,100	650	34	320	440	---
	3/29/95	5.47	18.88	0	3,300	170	2.2	51	8.9	---
	6/5/95	7.05	17.30	0	2,500	850	31	170	85	---
	9/21/95	8.92	15.43	0	2,900 ⁷	1,300	280	140	100	---
	12/22/95	8.53	15.82	0	5,400 ⁹	340	37	150	460	8,600
	3/22/96	5.98	18.37	0	2,200	79	50	58	200	1,600
	9/25/96	9.02	15.33	0	11,000	530	97	74	400	7,200
B-4/ 21.35 ¹	3/18/82	4.65	16.70	0	---	---	---	---	---	---
	3/25/82	5.08	16.27	0	---	---	---	---	---	---
	5/21/82	---	---	2.5	---	---	---	---	---	---
	5/26/82	9.21	12.14	---	---	---	---	---	---	---
	6/24/82	8.22	13.13	0.5	---	---	---	---	---	---
	9/9/93	6.09	15.26	0	88,000	3,200	16,000	2,000	9,500	---
	12/2/93	5.54	15.81	0	110,000	3,600	25,000	2,800	15,000	---
	3/17/94	6.00	15.35	0	60,000	1,400	16,000	1,800	8,900	---
	6/10/94	6.87	14.48	0	25,000	770	880	190	1,100	---
	9/15/94	8.74	12.61	0	3,300	800	8.0	300	350	---
24.11 ³	12/28/94	5.74	18.37	0	17,000	400	4,000	630	2,900	---
	3/29/95 ⁵	---	---	---	---	---	---	---	---	---
B-5/ 21.53 ¹	3/18/82	5.13	16.40	0	---	---	---	---	---	---
	3/25/82	5.27	16.26	0	---	---	---	---	---	---
	5/21/82	4.40	17.13	0	---	---	---	---	---	---
	5/26/82	7.55	13.98	0	---	---	---	---	---	---
	6/24/82	7.27	14.26	0	---	---	---	---	---	---
	9/9/93	6.45	15.08	0	110,000	1,800	1,800	6,300	25,000	---
	12/2/93	5.13	16.40	0	81,000	4,400	3,800	6,700	28,000	---
	3/17/94	6.55	14.98	0	38,000	2,100	3,100	1,800	9,100	---
	6/10/94	7.34	14.19	0	110,000	5,100	7,000	5,400	27,000	---
	9/15/94	6.34	15.19	0	2,700	770	15	240	320	---
24.23 ³	12/28/94	6.55	17.68	0	94,000	4,600	10,000	4,400	19,000	---
	3/29/95	5.59	18.64	0	59,000	1,500	3,100	2,100	8,100	---
	6/5/95	7.19	17.04	0	58,000	2,300	4,300	2,600	11,000	---
	9/21/95	9.10	15.13	0	3,500 ⁶	300	30	260	330	---
	12/22/95	8.61	15.62	0	6,500 ⁹	370	120	400	870	5,500



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California
(continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B T E X MTBE					
						-----ppb----->					
B-5 (cont)	3/22/96	6.02	18.21	0	13,000	410	1,000	750	2,900	5,400	
	9/25/96	9.20	15.03	0	8,000	170	<5.0	140	110	7,200	
B-6/ 22.03 ¹	3/18/82	7.56	14.47	0	---	---	---	---	---	---	
	3/25/82	6.08	15.95	0	---	---	---	---	---	---	
	5/21/82	4.85	17.18	0	---	---	---	---	---	---	
	5/26/82	8.31	13.72	0	---	---	---	---	---	---	
	6/24/82	8.03	14.00	0	---	---	---	---	---	---	
	9/9/93	8.12	13.91	0	6,800 ²	<0.5	<0.5	<0.5	<1.5	---	
	12/2/93	7.06	14.97	0	320	29	<0.5	<0.5	<0.5	---	
	3/17/94	7.57	14.46	0	570	130	6.2	4.7	14	---	
	6/10/94	8.21	13.82	0	1,500	100	81	51	240	---	
	9/15/94	9.94	12.09	0	6,400	900	24	490	620	---	
	24.72 ³	12/28/94	7.45	17.27	0	350	110	4.4	3.7	14	---
		3/29/95	6.40	18.32	0	3,300	46	<0.5	1.3	1.2	---
		6/5/95	8.07	16.65	0	230	<0.5	<0.5	<0.5	<0.5	---
		9/21/95	9.55	15.17	0	<50 ⁶	<0.5	<0.5	<0.5	<0.5	---
		12/22/95	8.91	15.81	0	<50	<0.50	<0.50	<0.50	<0.50	15,000
3/22/96	6.94	17.78	0	<1,200 ¹⁰	<12	<12	<12	<12	18,000		
9/25/96	9.63	15.09	0	15,000¹²	<10	<10	<10	<10	20,000		
B-7/ 19.54 ¹	3/18/82	4.08	15.46	0	---	---	---	---	---	---	
	3/25/82	4.00	15.54	0	---	---	---	---	---	---	
	5/21/82	3.00	16.54	0	---	---	---	---	---	---	
	5/26/82	4.96	14.58	0	---	---	---	---	---	---	
	6/24/82	4.90	14.64	0	---	---	---	---	---	---	
	9/9/93	6.54	13.00	0	230	1.3	2.3	0.6	2.1	---	
	12/2/93	6.20	13.34	0	190	4.7	<0.5	1.1	1.9	---	
	3/17/94	5.19	14.35	0	320	15	3.3	1.0	3.0	---	
	6/10/94	5.97	13.57	0	210	6.1	5.7	2.3	5.8	---	
	9/15/94	7.78	11.76	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	22.22 ³	12/28/94	5.04	17.18	0	520	17	4.8	2.5	2.1	---
		3/29/95	4.35	17.87	0	420	6.0	2.3	1.8	0.9	---
		6/5/95	5.79	16.43	0	65	<0.5	<0.5	<0.5	<0.5	---
		9/21/95	7.55	14.67	0	<50 ⁶	<0.5	<0.5	<0.5	<0.5	---
		12/22/95	9.16	13.06	0	<50	<0.50	<0.50	<0.50	<0.50	930



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California
(continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	←-----ppb----->					MTBE
						B	T	E	X		
B-7 (cont)	3/22/96	4.60	17.62	0	300	1.0	0.5	<0.5	0.6	280	
	9/25/96	7.98	14.24	0	310 ¹²	<0.5	0.6	<0.5	0.8	420	
B-8/ 18.49 ¹	3/18/82	4.27	14.22	0	---	---	---	---	---	---	
	3/25/82	4.06	14.43	0	---	---	---	---	---	---	
	5/21/82	4.86	13.63	0	---	---	---	---	---	---	
	5/26/82	4.96	13.53	0	---	---	---	---	---	---	
	6/24/82	4.87	13.62	0	---	---	---	---	---	---	
	9/9/93	5.20	13.29	0	<50	3.4	<0.5	<0.5	<1.5	---	
	12/2/93	5.31	13.18	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	3/17/94	4.87	13.62	0	<50	1.7	0.5	<0.5	0.6	---	
	6/10/94	5.63	12.86	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	9/15/94	7.10	11.39	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	21.01 ³	12/28/94	4.63	16.38	0	<50	<0.5	<0.5	<0.5	<0.5	---
		3/29/95	4.20	16.81	0	<50	<0.5	<0.5	<0.5	<0.5	---
		6/5/95	5.18	15.83	0	<50	<0.5	<0.5	<0.5	<0.5	---
9/21/95		6.80	14.21	0	<50 ⁶	<0.5	<0.5	<0.5	<0.5	---	
12/22/95		6.48	14.53	0	<50	<0.50	<0.50	<0.50	<0.50	190	
	3/22/96	4.49	16.52	0	<50	<0.5	<0.5	<0.5	<0.5	86	
	9/25/96	7.18	13.83	0	90 ¹²	<0.5	<0.5	<0.5	1.0	110	
B-9 ⁴	8/4/94	11.53	14.08	---	650	4.4	2.4	6.3	14	---	
	11/2/94	9.42	16.19	---	---	---	---	---	---	---	
25.61 ³	12/28/94	8.35	17.26	0	2,400	290	8.4	90	36	---	
	3/29/95	7.43	18.18	0	5,900	540	24	200	84	---	
	6/5/95	8.47	17.14	0	3,000	130	<25	<25	<25	---	
	9/21/95	8.99	16.62	0	240 ⁸	1,500	14	62	55	---	
	12/22/95	9.20	16.41	0	1,800	170	6.6	59	20	<6.0	
	3/22/96	7.84	17.77	0	2,400	230	6.2	77	9.7	9.2	
	9/25/96	9.24	16.37	0	1,800	28	4.7	39	13	56	
B-10 ⁴	8/4/94	10.95	12.20	---	<50	<0.5	<0.5	<0.5	<0.5	---	
	11/2/94	11.19	11.96	---	---	---	---	---	---	---	
23.15 ³	12/28/94	10.30	12.85	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	3/29/95	9.68	13.47	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	6/5/95	10.59	12.56	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	9/21/95	10.87	12.28	0	<50	<0.5	<0.5	<0.5	<0.5	---	



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California
(continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	←-----ppb----->				
						B	T	E	X	MTBE
B-10 (cont)	12/22/95	10.41	12.74	0	<50	<0.50	<0.50	<0.50	<0.50	<0.60
	3/22/96	10.11	13.04	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/25/96	10.15	13.00	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
B-11 ^A 25.23 ^B	8/4/94	10.39	14.84	---	<50	<0.5	<0.5	<0.5	<0.5	---
	11/2/94	11.50	13.73	---	---	---	---	---	---	---
	12/28/94	9.09	16.14	0	<50	<0.5	<0.5	<0.5	<0.5	---
	3/29/95	7.40	17.83	0	<50	<0.5	<0.5	<0.5	<0.5	---
	6/5/95	8.26	16.97	0	<50	<0.5	<0.5	<0.5	<0.5	---
	9/21/95	9.79	15.44	0	<50	<0.5	<0.5	<0.5	<0.5	---
	12/22/95	9.55	15.68	0	<50	<0.50	<0.50	<0.50	<0.50	<0.60
	3/22/96	7.35	17.88	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/25/96	10.21	15.02	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
B-12 ^A 20.40 ^B	8/4/94	6.41	13.99	---	<50	<0.5	<0.5	<0.5	<0.5	---
	11/2/94	8.75	11.65	---	---	---	---	---	---	---
	12/28/94	2.76	17.64	0	74	1.0	2.6	1.3	4.4	---
	3/29/95	2.46	17.94	0	210	<0.5	<0.5	0.7	1.6	---
	6/5/95	4.59	15.81	0	<50	<0.5	<0.5	<0.5	0.7	---
	9/21/95	7.36	13.04	0	<50	<0.5	<0.5	<0.5	<0.5	---
	12/22/95	3.96	16.44	0	140 ^B	<0.50	<0.50	<0.50	0.93	<0.60
	3/22/96	2.92	17.48	0	150	<0.5	0.8	<0.5	2.0	<5.0
	9/25/96	7.84	12.56	0	90	<0.5	<0.5	<0.5	<0.5	<5.0
TP-1/ ---	9/9/93	7.33	---	0	8,500	770	890	120	590	---
TP-2/ ---	9/9/93	6.18	---	0	13,000	2,400	3,200	380	1,900	---
Trip-Lab Blank TB-LB	9/9/93	---	---	---	<50	<0.5	<0.5	<0.5	<1.5	---
	12/2/93	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	3/17/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	6/10/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	9/15/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	12/28/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	3/29/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California
(continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	←-----ppb----->				MTBE
						B	T	E	X	
TB-LB (cont)	6/5/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	9/21/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	12/22/95	---	---	---	<50	<0.50	<0.50	<0.50	<0.50	<0.60
	3/22/96	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/25/96	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0
Bailer Blank BB	9/9/93	---	---	---	<50	<0.5	<0.5	<0.5	<1.5	---
	12/2/93	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	3/17/94	---	---	---	<50	<0.5	<0.5	<0.5	0.6	---



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California
(continued)

EXPLANATION:

TOC = Top of casing elevation
(ft) = feet
DTW = Depth to water
GWE = Groundwater elevation
msl = Measurements referenced relative to mean sea level
TPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl-tertiary-butyl ether
ppb = Parts per billion
--- = Not analyzed/Not applicable

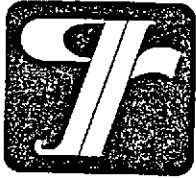
ANALYTICAL METHODS:

EPA Method 8015/5030 for TPH(G)
EPA Method 8020 for BTEX & MTBE

NOTES:

Water level data and laboratory analytical results prior to March 29, 1995, compiled from the quarterly monitoring reports prepared for Chevron by Sierra Environmental Services.

- * Product thickness was measured on and after September 9, 1993, with an MMC flexi-dip interface probe.
- ¹ Top of casing elevations were compiled from IT Enviroscience Program Report, August 2, 1982. TOC for MW-1 was assumed to be 23 feet MSL.
- ² Laboratory indicates a non-typical gasoline pattern.
- ³ Wells were resurveyed. Top of casing elevations were compiled from RESNA Subsurface Investigation Report, October 19, 1994.
- ⁴ Water level and analytic data prior to 12/28/94 from RESNA Subsurface Investigation Report, October 19, 1994.
- ⁵ Well removed from monitoring program January 11, 1995, per approval of Alameda County Health Services.
- ⁶ Laboratory report indicates uncategorized compounds are not included in gasoline concentration.
- ⁷ Laboratory report indicates uncategorized compounds are not included in gasoline concentration. Data obtained from multiple dilutions. Dilution factor noted represents the dilution used for majority of results.
- ⁸ BFB recovery high due to interference of hydrocarbons.
- ⁹ Laboratory report indicates gasoline and discrete peaks.
- ¹⁰ Laboratory report indicates hydrocarbons in the gasoline range do not match the gasoline standard pattern. The TPH as gasoline value was 4,200 ug/L which was attributed to the presence of MTBE.
- ¹¹ Laboratory report indicates hydrocarbons in the gasoline range do not match the gasoline standard pattern. The TPH as gasoline value was 9,600 ug/L which was attributed to the presence of MTBE.
- ¹² Laboratory report indicates hydrocarbons in the gasoline range do not match the gasoline standard pattern.



STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan 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 a MMC flexi-dip interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

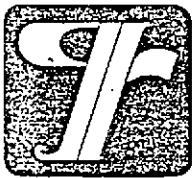
After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using Chevron-designated 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 USA Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.



WELL SAMPLING FIELD DATA SHEET

SAMPLER E Sanchez / F. Clive DATE 9-25-96
 ADDRESS 2630 Broadway JOB # 5207.85
 CITY Oakland SS# 9-2506

Well ID B-1 Well Condition ok

Well Location Description _____

Well Diameter 2 in Hydrocarbon Thickness 0

Total Depth 29.0 ft

Depth to Liquid 10.80 ft

Volume	2" = 0.17	6" = 1.50	12" = 5.80
Factor	3" = 0.38		
(VF)	4" = 0.66		

of casing Volume 18-20 x .12 x(VF) 3.1 #Estimated 9-3 gal. purge Volume

Purge Equipment Stack Pump Sampling Equipment Disposable Bailer

Did well dewater Yes If yes, Time 1154 Volume 6 gal

Starting Time 1150 Purging Flow Rate 1.5 gpm.

Sampling Time 1306

Time	pH	Conductivity	Temperature	Volume
<u>1152</u>	<u>6.76</u>	<u>762</u>	<u>22.4</u>	<u>7.0 gal</u>
<u>1154</u>	<u>6.75</u>	<u>739</u>	<u>22.1</u>	<u>6.0 gal</u>
<u>1306</u>	<u>6.80</u>	<u>745</u>	<u>22.7</u>	<u>7.0 gal</u>

Weather Conditions sunny

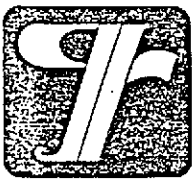
Water Color: clear Odor: mild

Sediment Description none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>B-1</u>	<u>3x40ml</u>	<u>Y</u>	<u>HCL</u>	<u>GTEL</u>	<u>Gal BTEX 4/MTBE</u>

Comments _____



WELL SAMPLING FIELD DATA SHEET

SAMPLER E. Sanchez / F. Cline DATE 9-25-96
 ADDRESS 2630 Broadway JOB # 5203.85
 CITY Oakland SS# 9-2506

Well ID B-3 Well Condition OK
 Well Location Description _____

Well Diameter 2 in Hydrocarbon Thickness 0

Total Depth 19.0 ft

Depth to Liquid 9.02 ft

Volume	2" = 0.17	6" = 1.50	12" = 5.80
Factor	3" = 0.38		
(VF)	4" = 0.66		

of casing Volume 9.98 x 0.17 x(VF) 1.7 #Estimated purge Volume 5.1 gal.

Purge Equipment Stack Pump Sampling Equipment Disposable Bailer

Did well dewater Yes If yes, Time 1232 Volume 3.4 gal

Starting Time 1230 Purging Flow Rate 1.7 gpm.

Sampling Time 1317

Time	pH	Conductivity	Temperature	Volume
<u>1231</u>	<u>6.74</u>	<u>876</u>	<u>22.6</u>	<u>1.7</u> gal
<u>1232</u>	<u>6.86</u>	<u>902</u>	<u>21.8</u>	<u>3.4</u>
<u>1317</u>	<u>6.89</u>	<u>899</u>	<u>20.9</u>	<u>4.5</u> ↓

Weather Conditions sunny

Water Color: clear Odor: mild

Sediment Description none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>B-3</u>	<u>3x40ml</u>	<u>Y</u>	<u>HCL</u>	<u>GTEL</u>	<u>Gen. BTEX / MTBE</u>

Comments _____



WELL SAMPLING FIELD DATA SHEET

SAMPLER G Sanchez / F. Cline DATE 9-25-96
 ADDRESS 2630 Broadway JOB # 5207.85
 CITY Oakland SS# 9-2506

Well ID B-5 Well Condition OK
 Well Location Description _____

Well Diameter 2 in Hydrocarbon Thickness 0

Total Depth 19.0 ft
 Depth to Liquid 9.20 ft

Volume	2" = 0.17	6" = 1.50	12" = 5.80
Factor	3" = 0.38		
(VF)	4" = 0.66		

of casing Volume 9.80 x 1.7 x(VF) 1.7 #Estimated 5.1 gal.
 Purge Volume

Purge Equipment Stack Pump Sampling Equipment Disposable bailer

Did well dewater Yes If yes, Time 1245 Volume 3-4

Starting Time 1243 Purging Flow Rate 1.7 gpm.

Sampling Time 1335

Time	pH	Conductivity	Temperature	Volume
<u>1244</u>	<u>6.87</u>	<u>876</u>	<u>20.2</u>	<u>1.7 gal</u>
<u>1245</u>	<u>6.86</u>	<u>870</u>	<u>22.4</u>	<u>3.4 gal</u>
<u>1325</u>	<u>6.81</u>	<u>894</u>	<u>22.0</u>	<u>4.5 gal</u>

Weather Conditions sunny

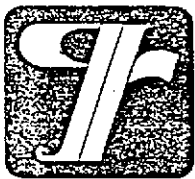
Water Color: clear Odor: mild

Sediment Description none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>B-5</u>	<u>3x40ml</u>	<u>Y</u>	<u>HCL</u>	<u>GTEL</u>	<u>Gas BTEX / MTBE</u>

Comments _____



WELL SAMPLING FIELD DATA SHEET

SAMPLER E. Sanchez / F. Cline DATE 9-25-96
 ADDRESS 2630 Broadway JOB # 5203.85
 CITY Oakland SS# 9-2506

Well ID B-6 Well Condition okay
 Well Location Description _____

Well Diameter 2" in Hydrocarbon Thickness 0

Total Depth 19' ft

Depth to Liquid 9.63 ft

Volume	2" = 0.17	6" = 1.50	12" = 5.80
Factor	3" = 0.38		
(VF)	4" = 0.66		

of casing 3x 9.37 x 0.17 x(VF) 1.6 #Estimated 4.8 gal.
 Volume _____
 Purge Volume _____

Purge Equipment Stack Sampling Equipment Disposable Bailer

Did well dewater No If yes, Time _____ Volume _____

Starting Time 1130 Purging Flow Rate 1.0 gpm.

Sampling Time 1139

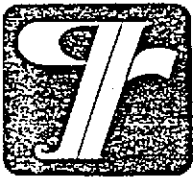
Time	pH	Conductivity	Temperature	Volume
<u>1132</u>	<u>7.14</u>	<u>482</u>	<u>22.6</u>	<u>2</u>
<u>1134</u>	<u>7.17</u>	<u>452</u>	<u>23.3</u>	<u>4</u>
<u>1136</u>	<u>7.13</u>	<u>471</u>	<u>23.2</u>	<u>6</u>
<u>1139</u>	<u>7.12</u>	<u>469</u>	<u>23.1</u>	<u>7</u>

Weather Conditions Partly Cloudy warming
 Water Color: clear Odor: Mild
 Sediment Description Men-

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>B-6</u>	<u>3x40ml</u>	<u>Y</u>	<u>HCL</u>	<u>GTEL</u>	<u>Gas BTEX / MTBE</u>

Comments _____



WELL SAMPLING FIELD DATA SHEET

SAMPLER G Sanchez / F. Cline DATE 9-25-96
 ADDRESS 2630 Broadway JOB # 5203.85-
 CITY Oakland SS# 9-2506

Well ID B-7 Well Condition OK

Well Location Description _____

Well Diameter 2 in Hydrocarbon Thickness 0

Total Depth 19.0 ft

Depth to Liquid 7.98 ft

Volume	2" = 0.17	6" = 1.50	12" = 5.80
Factor	3" = 0.38		
(VF)	4" = 0.66		

of casing Volume 11.02 x .17 x(VF) 1.9 #Estimated 5.7 gal. ^{purge} Volume

Purge Equipment Stack Pump Sampling Equipment Disposable Bailer

Did well dewater No If yes, Time _____ Volume _____

Starting Time 1212 Purging Flow Rate 2 gpm.

Sampling Time 1220

Time	pH	Conductivity	Temperature	Volume
<u>1213</u>	<u>6.77</u>	<u>776</u>	<u>23.7</u>	<u>2</u>
<u>1214</u>	<u>6.79</u>	<u>771</u>	<u>24.3</u>	<u>4</u>
<u>1215</u>	<u>6.80</u>	<u>781</u>	<u>24.4</u>	<u>6</u>
<u>1220</u>	<u>6.80</u>	<u>780</u>	<u>24.5</u>	<u>7</u>

Weather Conditions sunny

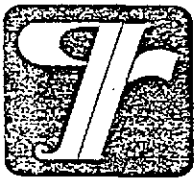
Water Color: clear Odor: mild

Sediment Description none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>B-7</u>	<u>3x40ml</u>	<u>Y</u>	<u>HCL</u>	<u>GTEL</u>	<u>Gal BTEX w/MTBE</u>

Comments _____



WELL SAMPLING FIELD DATA SHEET

SAMPLER E Sanchez / F. Cline DATE 9-25-96
 ADDRESS 2630 Broadway JOB # 5203.85
 CITY Oakland SS# 9-2506

Well ID B-8 Well Condition OK

Well Location Description _____

Well Diameter 2 in Hydrocarbon Thickness 0

Total Depth 18.0 ft

Depth to Liquid 7.18 ft

Volume	2" = 0.17	6" = 1.50	12" = 5.80
Factor	3" = 0.38		
(VF)	4" = 0.66		

of casing Volume 10.82 x .17 x(VF) 1.8 #Estimated 5.5 gal. purge Volume

Purge Equipment Stack Pump Sampling Equipment Disposable Bailer

Did well dewater Yes If yes, Time 1132 Volume 4 gal

Starting Time 1130 Purging Flow Rate 2 gpm.

Sampling Time 1300

Time	pH	Conductivity	Temperature	Volume
<u>1131</u>	<u>6.81</u>	<u>890</u>	<u>21.5</u>	<u>2 gal</u>
<u>1132</u>	<u>6.85</u>	<u>896</u>	<u>21.7</u>	<u>4 gal</u>
<u>1300</u>	<u>6.88</u>	<u>908</u>	<u>22.9</u>	<u>5 gal</u>

Weather Conditions Sunny

Water Color: clear Odor: none

Sediment Description none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>B-8</u>	<u>3x40ml</u>	<u>Y</u>	<u>HCL</u>	<u>GTEL</u>	<u>GRUBTEX/MTGE</u>

Comments _____



WELL SAMPLING FIELD DATA SHEET

SAMPLER G Sanchez / F. Cline DATE 9-25-96
 ADDRESS 2630 Broadway JOB # 5203.85
 CITY Oakland SS# 9-2506

Well ID B-9 Well Condition okay

Well Location Description _____

Well Diameter 2" in Hydrocarbon Thickness _____

Total Depth 19' ft

Depth to Liquid 9.24 ft

Volume	2" = 0.17	6" = 1.50	12" = 5.80
Factor	3" = 0.38		
(VF)	4" = 0.66		

of casing 3x 9.26 x 0.17 x(VF) 1.66 #Estimated 4.97 gal.
 Volume _____ purge Volume _____

Purge Equipment Stack Sampling Equipment Disposable Bailer

Did well dewater NO If yes, Time _____ Volume _____

Starting Time 11:50 Purging Flow Rate 1 gpm.

Sampling Time 11:59

Time	pH	Conductivity	Temperature	Volume
<u>11:52</u>	<u>7.10</u>	<u>0.21</u>	<u>24.9</u>	<u>3</u>
<u>11:54</u>	<u>7.09</u>	<u>0.44</u>	<u>29.9</u>	<u>7</u>
<u>11:56</u>	<u>7.10</u>	<u>0.46</u>	<u>24.8</u>	<u>0</u>
<u>11:59</u>	<u>7.12</u>	<u>0.42</u>	<u>25.0</u>	<u>0</u>

Weather Conditions Partly Sunny w/ warming

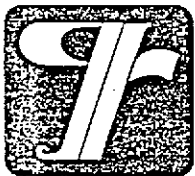
Water Color: clear Odor: Mild

Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>B-9</u>	<u>3x40ml</u>	<u>Y</u>	<u>HCL</u>	<u>GTEL</u>	<u>Gas BTEX / MTBE</u>

Comments _____



WELL SAMPLING FIELD DATA SHEET

SAMPLER E Sanchez / F. Clive DATE 9-25-96
 ADDRESS 2630 Broadway JOB # 5203.85
 CITY Oakland SS# 9-2506

Well ID B-11 Well Condition okay
 Well Location Description _____

Well Diameter 2" in Hydrocarbon Thickness 0

Total Depth 18' ft
 Depth to Liquid 10.21 ft

Volume	2" = 0.17	6" = 1.50	12" = 5.80
Factor	3" = 0.38		
(VF)	4" = 0.66		

of casing Volume 3x 7.29 x 0.17 x(VF) 1.3 #Estimated 3.9 gal.
 Purge Volume

Purge Equipment Stack Sampling Equipment Disposable Bailer

Did well dewater _____ If yes, Time _____ Volume _____

Starting Time 1050 Purging Flow Rate 115 gpm.
 Sampling Time 1055

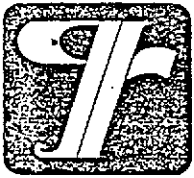
Time	pH	Conductivity	Temperature	Volume
<u>1051</u>	<u>7.27</u>	<u>332</u>	<u>23.3</u>	<u>1.5</u>
<u>1052</u>	<u>7.26</u>	<u>329</u>	<u>23.2</u>	<u>3.0</u>
<u>1053</u>	<u>7.26</u>	<u>327</u>	<u>22.9</u>	<u>4.5</u>
<u>1055</u>	<u>7.26</u>	<u>328</u>	<u>23.0</u>	<u>5.0</u>

Weather Conditions Partly Sunny cool
 Water Color: _____ Odor: _____
 Sediment Description _____

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>B-11</u>	<u>3x40ml</u>	<u>Y</u>	<u>HCL</u>	<u>GTEL</u>	<u>Gas BTEX / MTBE</u>

Comments _____



WELL SAMPLING FIELD DATA SHEET

SAMPLER G Sanchez / F. Cline DATE 9-25-96
 ADDRESS 2630 Broadway JOB # 5203.85-
 CITY Oakland SS# 9-2506

Well ID B-12 Well Condition Okay

Well Location Description _____

Well Diameter 2" in Hydrocarbon Thickness 0

Total Depth 18' ft

Depth to Liquid 7.84 ft

of casing 3x 10.16 x 0.117 x(VF) 1.72 #Estimated 5.2 gal.
 Volume 10.16 x(VF) 1.72 #Estimated 5.2 gal.
 Volume 10.16 x(VF) 1.72 #Estimated 5.2 gal.

Purge Equipment Stack Sampling Equipment Disposable Bailer

Did well dewater Nil If yes, Time _____ Volume _____

Starting Time 1114 Purging Flow Rate 1 gpm.

Sampling Time 1123

Time	pH	Conductivity	Temperature	Volume
<u>1116</u>	<u>7.15</u>	<u>391</u>	<u>23.2</u>	<u>2</u>
<u>1118</u>	<u>7.10</u>	<u>382</u>	<u>22.8</u>	<u>4</u>
<u>1120</u>	<u>7.10</u>	<u>372</u>	<u>22.3</u>	<u>6</u>
<u>1123</u>	<u>7.12</u>	<u>375</u>	<u>22.4</u>	<u>7</u>

Weather Conditions Partly Sunny warming
 Water Color: Clear Odor: None
 Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>B-12</u>	<u>3x40ml</u>	<u>Y</u>	<u>HCL</u>	<u>GTEL</u>	<u>Gas BTEX / MTBE</u>

Comments _____



Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

RECEIVED
OCT 22 1996
GETTLER-RYAN INC.
GENERAL CONTRACTORS

October 16, 1996

Deanna Harding
GETTLER-RYAN
6747 Sierra Ct.
Suite J
Dublin, CA 94568

RE: GTEL Client ID: GTR01CHV08
Login Number: W6090488
Project ID (number): 5203.85
Project ID (name): CHEVRON/9-2506/2630 BROADWAY/OAKLAND/CA

Dear Deanna Harding:

This report, previously dated 10/07/96, is a reissue.

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 09/27/96.

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. This report is to be reproduced only in full.

NEI/GTEL is certified by the California Department of Health Service under Certification Number 1845.

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.

Justin Ward, Project Coordinator for
Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
 Login Number: W6090488
 Project ID (number): 5203.85
 Project ID (name): CHEVRON/9-2506/2630 BROADWAY/OAKLAND/CA

Method: EPA 8020A
 Matrix: Aqueous

GTEL Sample Number	W6090488-01	W6090488-02	W6090488-03	W6090488-04
Client ID	TB-LB	B-10	B-11	B-12
Date Sampled		09/25/96	09/25/96	09/25/96
Date Analyzed	10/05/96	10/05/96	10/05/96	10/05/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting		Concentration:			
	Limit	Units				
MTBE	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes (total)	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
BTEX (total)	--	ug/L	--	--	--	--
TPH as Gasoline	50	ug/L	< 50	< 50	< 50	90

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. Analyte list modified to include additional compounds. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update II.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
 Login Number: W6090488
 Project ID (number): 5203.85
 Project ID (name): CHEVRON/9-2506/2630 BROADWAY/OAKLAND/CA

Method: EPA 8020A
 Matrix: Aqueous

GTEL Sample Number	W6090488-05	W6090488-06	W6090488-07	W6090488-08
Client ID	B-8	B-6	B-1	B-7
Date Sampled	09/25/96	09/25/96	09/25/96	09/25/96
Date Analyzed	10/05/96	10/05/96	10/05/96	10/05/96
Dilution Factor	1.00	20.0	25.0	1.00

Analyte	Reporting		Concentration:			
	Limit	Units				
MTBE	5.0	ug/L	110	20000	38000	420
Benzene	0.5	ug/L	< 0.5	< 10.	19.	< 0.5
Toluene	0.5	ug/L	< 0.5	< 10.	< 12.	0.6
Ethylbenzene	0.5	ug/L	< 0.5	< 10.	< 12.	< 0.5
Xylenes (total)	0.5	ug/L	1.0	< 10.	< 12.	0.8
BTEX (total)	--	ug/L	1.0	--	19.	1.4
TPH as Gasoline	50	ug/L	90	15000	28000	310

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. Analyte list modified to include additional compounds. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update II.

W6090488-05:

Hydrocarbons in the gasoline range do not match the gasoline standard pattern.

W6090488-06:

Hydrocarbons in the gasoline range do not match the gasoline standard pattern.

W6090488-07:

Hydrocarbons in the gasoline range do not match the gasoline standard pattern.

W6090488-08:

Hydrocarbons in the gasoline range do not match the gasoline standard pattern.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
 Login Number: W6090488
 Project ID (number): 5203.85
 Project ID (name): CHEVRON/9-2506/2630 BROADWAY/OAKLAND/CA

Method: EPA 8020A
 Matrix: Aqueous

GTEL Sample Number	W6090488-09	W6090488-10	W6090488-11	--
Client ID	B-3	B-9	B-5	--
Date Sampled	09/25/96	09/25/96	09/25/96	--
Date Analyzed	10/05/96	10/05/96	10/05/96	--
Dilution Factor	1.00	1.00	10.0	--

Analyte	Reporting		Concentration:			
	Limit	Units				
MTBE	5.0	ug/L	7200	56.	7200	--
Benzene	0.5	ug/L	530	28.	170	--
Toluene	0.5	ug/L	97.	4.7	< 5.0	--
Ethylbenzene	0.5	ug/L	74.	39.	140	--
Xylenes (total)	0.5	ug/L	400	13.	110	--
BTEX (total)	--	ug/L	1100	85.	420	--
TPH as Gasoline	50	ug/L	11000	1800	8000	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. Analyte list modified to include additional compounds. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update II.

GTEL Client ID: GTR01CHV08

QUALITY CONTROL RESULTS

Login Number: W6090488

Volatile Organics

Project ID (number): 5203.85

Method: EPA 8020A

Project ID (name): CHEVRON/9-2506/2630 BROADWAY/OAKLAND/CA

Matrix: Aqueous

Conformance/Non-Conformance Summary

(X = Requirements Met

* = See Comments

-- = Not Required

NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	X	--	--
Surrogate Recovery	X	--	NA
Holding Time	X	--	--
Method Accuracy	X	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments:

GTEL Client ID: GTR01CHV08
Login Number: W6090488
Project ID (number): 5203.85
Project ID (name): CHEVRON/9-2506/2630 BROADWAY/OAKLAND/CA

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Aqueous

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT
Method: EPA 8020A		Acceptability Limits:	43-136%
100596GC17-1	CV1005962017	Calibration Verifi	99.9
100596GC17-3	BW10059617	Method Blank Water	98.8
100596GC17-5	DP10003006	Duplicate	115
100596GC17-6	MS10003002	Matrix Spike	101.
--	09048801	TB-LB	99.3
--	09048802	B-10	98.0
--	09048803	B-11	98.3
--	09048804	B-12	99.5
--	09048805	B-8	97.6
--	09048806	B-6	98.0
--	09048807	B-1	101
--	09048808	B-7	99.3
--	09048809	B-3	120
--	09048810	B-9	116.
--	09048811	B-5	99.9

Notes:

*: Indicates values outside of acceptability limits. See Nonconformance Summary.

GTEL Client ID: GTR01CHV08
Login Number: W6090488
Project ID (number): 5203.85
Project ID (name): CHEVRON/9-2506/2630 BROADWAY/OAKLAND/CA

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Aqueous

Method Blank Results

QC Batch No: 100596GC17-3
Date Analyzed: 05-OCT-96

Analyte	Method: EPA 8020A	Concentration: ug/L
MTBE	< 2.00	
Benzene	< 0.400	
Toluene	< 0.500	
Ethylbenzene	< 0.400	
Xylenes (Total)	< 0.800	
TPH as Gasoline	< 50.0	

Notes:

GTEL Client ID: GTR01CHV08
Login Number: W6090488
Project ID (number): 5203.85
Project ID (name): CHEVRON/9-2506/2630 BROADWAY/OAKLAND/CA

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Aqueous

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8020A	Units:ug/L	QC Batch:100596GC17-1		
Benzene	20.0	20.0	100.	77-123%
Toluene	20.0	20.7	104.	77.5-122.5%
Ethylbenzene	20.0	20.9	105.	63-137%
Xylenes (Total)	60.0	60.1	100.	85-115%
TPH as Gasoline	500.	490.	98.0	80-120%

Notes:

QC check source: Supelco #LA12389

GTEL Client ID: GTR01CHV08
 Login Number: W6090488
 Project ID (number): 5203.85
 Project ID (name): CHEVRON/9-2506/2630 BROADWAY/OAKLAND/CA

QUALITY CONTROL RESULTS

Volatile Organics
 Method: EPA 8020A
 Matrix: Aqueous

Duplicate Sample Results

Analyte	Original Concentration	Duplicate Concentration	RPD. %	Acceptability Limits. %
EPA 8020A	Units: ug/L	QC Batch: 100596GC17-5	GTEL Sample ID: W6100030-06	Client ID: Batch QC
MTBE	< 1000	< 1000	NA	20
Benzene	4320	4220	2.34	23.9
Toluene	2340	2280	2.60	27.2
Ethylbenzene	3580	3490	2.55	21.6
Xylenes (Total)	13500	13200	2.25	22.0
TPH as Gasoline	67900	60100	12.2	20

Notes:

NA - The concentration of the analyte is less than the reporting limit.

GTEL Client ID: GTR01CHV08
Login Number: W6090488
Project ID (number): 5203.85
Project ID (name): CHEVRON/9-2506/2630 BROADWAY/OAKLAND/CA

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Aqueous

Matrix Spike(MS) Results

GTEL Sample ID:W6100030-02		MS ID:MS10003002			
Analysis Date: 05-OCT-96		05-OCT-96			
Units: ug/L	Sample	Spike	MS	MS	Acceptability Limits
Analyte	Conc.	Added	Conc.	% Rec.	%Rec.
Benzene	< 0.5 (0.000)	20.0	20.6	103.	67-110
Toluene	< 0.5 (0.000)	20.0	21.0	105.	68-115
Ethylbenzene	< 0.5 (0.000)	20.0	20.8	104.	65-120
Xylenes (Total)	< 0.5 (0.140)	60.0	59.1	98.3	62-119

Notes:

Values in parentheses in the sample concentration column are used for % recovery calculations.