Letter of Transmittal

Chevron

Chevron U.S.A. Products Company
6001 Bollinger Canyon Rd. Bldg. L
P. O. Box 5004
San Ramon, CA 94583-0804

Site Assessment & Remediation Group
Phone (510) 842-9500
Fax (510) 842-8252

January 19, 1996

Mr. Ravi Arulananthum
San Francisco Bay RWQCB - Oakland Office

Subject: Chevron Facility 1001067
Semi-Annual Monitoting Report, dated December 11, 1995
Second Half Sampling Event
Prepared by Gettler-Ryan Inc.

Mr. Arulananthum:

Attached are the results of the most recent groundwater monitoring events at this site. Groundwater conditions remain consistent with those last reported. Please call me if you have any questions. My phone number is (510) 842-9655.

R. J. (Bob) Cochran
Project Manager

rjco: (1001067)
cc: **Ms. Susan Hugo - Alameda County Health Agency**

GETTLER-RYAN INC.

December 11, 1995 Job #5161.85

Mr. Robert Cochran
Chevron USA Products Company
P.O. Box 5004
San Ramon, CA 94583

Re: Former Chevron Asphalt Plant and Terminal #1001067
Powell @ Landregan Street
Emeryville, California

Dear Mr. Cochran:

This report documents the semi-annual groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On November 6, 1995, field personnel were on-site to monitor and sample eight wells (MW-2A, MW-7, MW-10, MW-13, MW-15, MW-17, MW-18, and MW-19A) at the Former Chevron Asphalt Plant and Terminal located at Powell at Landregan Street in Emeryville, California. Wells MW-1, MW-3, MW-8, MW-9, MW-11, MW-12, and MW-16 were either not located or inaccessible due to construction activities.

Static groundwater levels were measured on November 6, 1995. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the 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 - Quarterly Groundwater Sampling (attached). The field data sheets for this event are also attached. The samples were analyzed by GTEL Environmental Laboratories, Inc. Analytical results are presented in Tables 1 and 2. The chain of custody document and laboratory analytical reports are enclosed.

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,

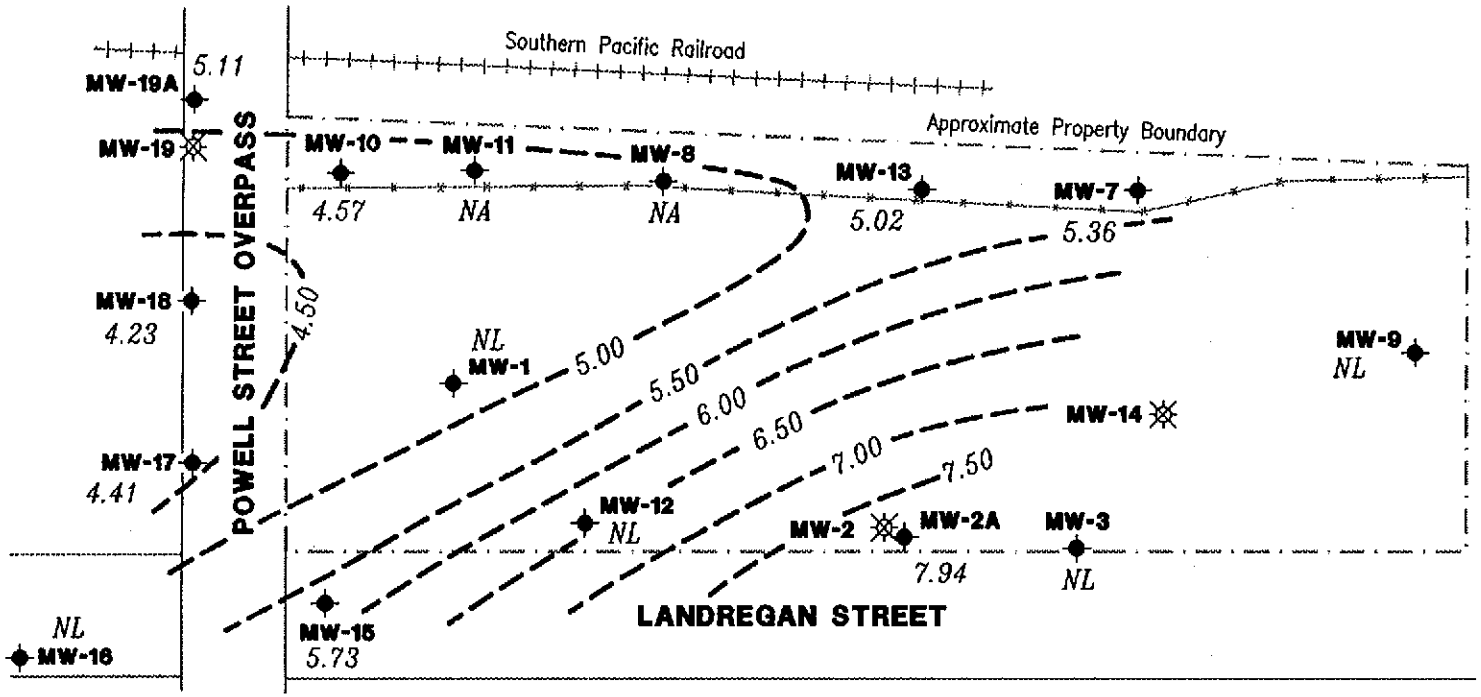
Deanna L. Harding for
Greg A. Gurss
Project Manager

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

REGISTERED GEOLOGIST
Penny L. Silzer
No. 5523
STATE OF CALIFORNIA

GAG/PLS/dlh
5161.QML

Figure 1: Potentiometric Map
Table 1: Water Level Data and Groundwater Analytical Results
Table 2: Analytical Results for Groundwater - Halogenated Volatile Organic Compounds
Attachments: Standard Operating Procedure - Quarterly Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



EXPLANATION:

✦	Groundwater monitoring well	*NL*	Well not located
✳	Abandoned groundwater monitoring well	*NA*	Not accesible
99.99	Groundwater elevation in feet referenced to Mean Sea Level (MSL)		
99.99	Groundwater elevation contour, dashed where inferred.		

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

N

0 100

Scale in Feet

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

POTENTIOMETRIC MAP
Former Chevron Asphalt Plant
and Terminal No. 1001067
Emeryville, California

FIGURE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
5161.80		November 6, 1995	

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California

Well ID/ TOC (ft)[1]	Date	DTW (ft)	GWE[1] (msl)	Product Thickness[2] (ft)	Analytic Method	TPH(G)	B	T	E	X	MTBE
						<----	----	---- ppb ----	----	----	---->
MW-1/ 10.67	4/26/85	—	—	—	—	—	99	—	—	6.0	—
	9/11/87	—	—	—	—	—	63	—	—	—	—
	7/7/88	—	—	—	—	<100	55	—	—	—	—
	4/13/89	3.72	6.95	—	—	—	—	—	—	—	—
	4/14/89	—	—	—	8260	<5,000	34	<5.0	<5.0	<10	—
	7/31/89	5.72	4.95	0	8260	7,000	57	1.2	<0.2	1.6	—
	12/8/89	4.80	5.87	0	8015/8020	—	26	0.4	0.9	2.0	—
	3/21/90	4.74	5.93	0	8015/8020	3,500	120	9.0	3.0	3.0	—
	6/19/90	4.75	5.92	0	8015/8020	2,700	100	<0.3	<0.3	7.0	—
	9/20/90	5.07	5.60	—	—	—	—	—	—	—	—
	9/21/90	—	—	—	8015/8020	2,200	120	2.0	2.0	0.79	—
	12/28/90	4.91	5.76	0	8015/8020	720	44	2.0	<0.5	9.0	—
	5/10/91	5.30	5.37	0	8015/8020	530	47	2.0	0.5	8.0	—
	8/8/91	5.85	4.82	0	8015/8020	1,400	37	8.3	3.7	12	—
	11/27/91	5.13	5.54	0	8015/8020	840	16	7.1	4.5	11	—
	1/29/92	4.82	5.85	0	8015/8020	350	18	9.3	3.7	7.7	—
	3/26/92	4.32	6.35	0	8015/8020	420[11]	19	2.2	1.2	4.0	—
	7/23/92	5.42	5.25	0	8015/8020	4,000[12]	50	82	40	160	—
	10/28/92	5.56	5.11	0	8015/8020	980	36	6.7	3.0	10	—
	5/4/93	6.30	4.37	0	8015/8020	650	9.4	2.4	1.2	4.5	—
	1/5/94[10]	—	—	—	—	—	—	—	—	—	—
MW-2/ 13.78	4/26/85	—	—	—	—	—	<10	—	—	—	—
	9/11/87	—	—	—	—	—	—	—	—	—	—
	7/7/88	—	—	—	—	<100	<5.0	—	—	—	—
	4/13/89	2.62	11.16	—	—	—	—	—	—	—	—
	4/14/89*	—	—	—	8260	<100	<0.2	<0.2	<0.2	<0.4	—
	7/31/89	4.63	9.15	0	8260	<100	<0.2	<1.0	<0.2	<0.4	—
	12/8/89	5.98	7.80	0	8015/8020	—	<0.3	<0.3	<0.3	<0.6	—
	3/21/90	5.85	7.93	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	6/19/90	5.95	7.83	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	9/20/90	6.86	6.92	—	—	—	—	—	—	—	—
	9/21/90	—	—	—	8015/8020	<50	<1.5	<1.5	<1.5	<4.5	—
	12/28/90	6.34	7.44	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	5/10/91	5.96	7.82	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	8/8/91	7.66	6.12	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	8.04	5.74	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	6.01	7.77	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft)[1]	Date	DTW (ft)	GWE[1] (msl)	Product Thickness[2] (ft)	Analytic Method	TPH(G)	B	T	E	X	MTBE
						<----------ppb---------->					
MW-2	3/26/92	6.10	7.68	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
(cont)	7/23/92	7.39	6.39	0	8015/8020	<50	<0.5	<0.5	<0.5	0.8	---
	10/28/92	7.51	6.27	0	8015/8020	55	1.3	6.9	1.1	5.1	---
	5/4/93[8]	---	---	---	---	---	---	---	---	---	---
	1/5/94[10]	---	---	---	---	---	---	---	---	---	---
	10/24/94	Dry	---	---	---	---	---	---	---	---	---
	4/19/95	2.51	11.28[14]	0.01	---	---	---	---	---	---	---
	11/6/95	Abandoned	---	---	---	---	---	---	---	---	---
MW-2A											
12.45	11/6/95	4.51	7.94	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	<5.0
MW-3/											
11.73	4/26/85	---	---	---	---	---	<10	---	---	---	---
	9/11/87	---	---	---	---	---	<0.5	---	---	---	---
	7/7/88	---	---	---	---	<100	<5.0	---	---	---	---
	4/13/89	2.34	9.39	---	---	---	---	---	---	---	---
	4/14/89*	---	---	---	8260	<100	<0.2	<0.2	<0.2	<0.4	---
	7/31/89	4.79	6.94	0	8260	<100	<0.2	<1.0	<0.2	<0.4	---
	12/8/89	3.03	8.70	0	8015/8020	---	<0.3	<0.3	<0.3	<0.6	---
	3/21/90	2.55	9.18	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	6/19/90	2.76	8.97	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	9/20/90	4.43	7.30	---	---	---	---	---	---	---	---
	9/21/90	---	---	---	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	12/28/90	3.67	8.06	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/10/91	2.83	8.90	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/8/91	5.09	6.64	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/27/91	5.37	6.36	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/92	3.46	8.27	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	3/26/92	2.10	9.63	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/23/92	4.60	7.13	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/28/92	5.07	6.66	0	8015/8020	92	1.8	12	2.0	10	---
	5/4/93[8]	---	---	---	---	---	---	---	---	---	---
	1/5/94[10]	---	---	---	---	---	---	---	---	---	---
MW-4	4/26/85	---	---	---	---	3,100	<10	---	---	---	---
	9/11/87	---	---	---	---	---	<0.5	---	---	---	---
	7/7/88	---	---	---	---	<100	<5.0	---	---	---	---

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft)[1]	Date	DTW (ft)	GWE[1] (msl)	Product Thickness[2] (ft)	Analytic Method	TPH(G)	B	T	E	X	MTBE
						<----------ppb---------->					
MW-4	4/13/89[3]	2.12	—	—	—	—	—	—	—	—	—
(cont)	4/14/89[4]*	—	—	—	8260	380[13]	<0.5	<1.0	<1.0	<1.0	—
MW-5	4/26/85	—	—	—	—	1,600	<100	—	—	—	—
	9/11/87	—	—	—	—	—	<10	—	—	—	—
	7/7/88	—	—	—	—	<100	<5.0	—	—	—	—
	4/13/89[3]	2.79	—	—	—	—	—	—	—	—	—
	4/14/89[4]*	—	—	—	8260	4,300[13]	<0.5	<1.0	<1.0	<1.0	—
MW-6	4/26/85	—	—	—	—	580	<100	—	—	—	—
	9/11/87	—	—	—	—	—	<10	—	—	—	—
	7/7/88	—	—	—	—	8,000	<5.0	—	—	—	—
	4/13/89[3]	1.90	—	—	—	—	—	—	—	—	—
	4/14/89[4]*	—	—	—	8260	3,300[13]	<0.5	<1.0	<1.0	<1.0	—
MW-7/ 10.47	4/26/85	—	—	—	—	700	ND	—	—	—	—
	9/11/87	—	—	—	—	—	<10	—	—	—	—
	7/7/88	—	—	—	—	17,000	<5.0	—	—	—	—
	4/13/89	1.90	8.57	—	—	—	—	—	—	—	—
	4/14/89*	—	—	—	8260	<50	<0.5	<1.0	<1.0	<1.0	—
	7/31/89	4.24	6.23	—	8260	160[13]	<0.1	<0.5	<0.1	<0.2	—
	7/31/89	—	—	—	8260	100[15]	<0.1	<0.5	<0.1	<0.2	—
	12/8/89	2.65	7.82	0	8015/8020	—	<0.3	<0.3	<0.3	<0.6	—
	3/21/90	2.76	7.71	0	8015/8020	<50	<0.3	<0.3	<0.3	0.6	—
	6/19/90	3.24	7.23	0	8015/8020	<50	<0.3	<0.3	<0.3	0.6	—
	9/20/90	4.57	5.90	—	—	—	—	—	—	—	—
	9/21/90	—	—	—	8015/8020	<50	1.5	<0.3	<0.3	<0.6	—
	12/28/90	3.12	7.35	0	8015/8020	<50	0.7	<0.5	<0.5	0.7	—
	5/10/91	3.53	6.94	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	8/8/91	4.64	5.83	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	3.66	6.81	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	3.24	7.23	0	8015/8020	<50	<0.5	<0.5	<0.5	0.9	—
	3/26/92	2.61	7.86	0	8015/8020	<50	<0.5	<0.5	<0.5	0.9	—
	7/23/92	4.19	6.28	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/28/92	4.39	6.08	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	5/4/93[8]	—	—	—	—	—	—	—	—	—	—
	1/5/94[10]	—	—	—	—	—	—	—	—	—	—
	5/13/94	4.41	6.06	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft)[1]	Date	DTW (ft)	GWE[1] (msl)	Product Thickness[2] (ft)	Analytic Method	TPH(G)	B	T	E	X	MTBE
						<——— ppb ———>					
MW-7	10/24/94	5.03	5.44	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
(cont)	4/19/95	4.53	5.94	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	11/6/95	**5.11**	**5.36**	**0**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
MW-8/											
10.46	4/26/85	—	—	—	—	—	ND	—	—	—	—
	9/11/87	—	—	—	—	—	<10	—	—	—	—
	7/7/88	—	—	—	—	20,000	<5.0	—	—	—	—
	4/13/89	2.80	7.66	—	—	—	—	—	—	—	—
	4/14/89*	—	—	—	8260	<50	<0.5	<1.0	<1.0	<1.0	<3,000
	7/31/89	5.70	4.76	0	8260	<50	<0.1	<0.5	<0.1	<0.2	—
	12/8/89	4.13	6.33	0	8015/8020	—	<0.3	<0.3	<0.3	<0.6	—
	3/21/90	4.07	6.39	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	6/19/90	4.25	6.21	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	9/20/90	4.99	5.47	—	—	—	—	—	—	—	—
	9/21/90	—	—	—	8015/8020	<50	6.0	<0.3	<0.3	<0.6	—
	12/28/90	4.39	6.07	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	5/10/91	4.13	6.33	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	8/8/91	5.53	4.93	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	4.59	5.87	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	5.30	5.16	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	3/26/92	3.59	6.87	0	8015/8020	<50	<0.5	<0.5	<0.5	0.7	—
	7/23/92	5.06	5.40	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/28/92[7]	—	—	—	—	—	—	—	—	—	—
	5/4/93[8]	—	—	—	—	—	—	—	—	—	—
	1/5/94[8]	—	—	—	—	—	—	—	—	—	—
	5/13/94	5.59	4.87	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/24/94[7]	—	—	—	—	—	—	—	—	—	—
	4/19/95[4]	—	—	—	—	—	—	—	—	—	—
	11/6/95	**Inaccessible**	—	—	—	—	—	—	—	—	—
MW-9	4/26/85	—	—	—	—	—	—	—	—	—	—
	9/11/87	—	—	—	—	—	—	—	—	—	—
	7/7/88	—	—	—	—	400	—	—	—	—	—
	5/10/91[5]	—	—	—	—	—	—	—	—	—	—
MW-10/											
10.82	7/7/88	—	—	—	—	—	<5.0	—	—	—	—
	4/14/89*	—	—	—	8260	<50	<0.5	<1.0	<1.0	<1.0	—

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft)[1]	Date	DTW (ft)	GWE[1] (msl)	Product Thickness[2] (ft)	Analytic Method	TPH(G)	B	T	E	X	MTBE
						<----------ppb---------->					
MW-10 (cont)	7/31/89	---	---	---	8260	<50	<0.1	<0.5	<0.1	<0.2	---
	12/8/89	---	---	---	8015/8020	---	<0.3	<0.3	<0.3	<0.6	---
	3/21/90	4.60	6.22	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	6/19/90	4.89	5.93	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	9/20/90	5.77	5.05	---	---	---	---	---	---	---	---
	9/21/90	---	---	---	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	12/28/90	4.99	5.83	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/10/91	5.80	5.02	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/8/91	5.86	4.96	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/27/91	5.39	5.43	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/92	5.44	5.38	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	3/26/92	4.96	5.86	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/23/92	5.80	5.02	0	8015/8020	<50	<0.5	1.8	0.5	1.9	---
	10/28/92	6.06	4.76	0	8015/8020	<50	0.6	0.7	<0.5	1.2	---
	5/4/93[6]	---	---	---	---	---	---	---	---	---	---
	1/5/94	5.92	4.90	0	8015/8020	<50	<0.5	<0.5	<0.5	0.6	---
	5/13/94	5.09	5.73	0	8015/8020	140	<0.5	<0.5	<0.5	1.3	---
	10/24/94	6.24	4.58	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/19/95	5.26	5.56	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/6/95	**6.25**	**4.57**	**0**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
MW-11/ 11.38	7/7/88	---	---	---	---	---	<5.0	---	---	---	---
	4/14/89	---	---	---	8260	<50	<0.5	<1.0	<1.0	<1.0	<3,000
	7/31/89	---	---	---	8260	<100	<0.2	<0.2	<0.2	<0.2	---
	12/8/89	---	---	---	8015/8020	---	<0.3	<0.3	<0.3	<0.6	---
	3/21/90	4.82	6.56	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	6/19/90	5.14	6.24	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	9/20/90	6.11	5.27	---	---	---	---	---	---	---	---
	9/21/90	---	---	---	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	12/28/90	5.16	6.22	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/10/91	7.83	3.55	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/8/91	6.32	5.06	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/27/91	5.67	5.71	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/92	5.83	5.55	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	3/26/92	4.09	7.29	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/23/92	6.19	5.19	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/28/92	6.51	4.87	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/4/93[6]	---	---	---	---	---	---	---	---	---	---

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft)[1]	Date	DTW (ft)	GWE[1] (msl)	Product Thickness[2] (ft)	Analytic Method	TPH(G)	B	T	E	X	MTBE
						<----------ppb---------->					
MW-11	1/5/94[8]	—	—	—	—	—	—	—	—	—	—
(cont)	5/13/94	5.67	5.71	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/24/94	6.79	4.59	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	4/19/95	5.69	5.69	0	8015/8020	58[15]	0.6	<0.5	<0.5	0.5	—
	11/6/95	Inaccessible	—	—	—	—	—	—	—	—	—
MW-12/											
13.03	7/7/88	—	—	—	—	<100	<5.0	—	—	—	—
	4/14/89[9]	—	—	—	8260	<50	<0.5	<1.0	<1.0	<1.0	—
	7/31/89	—	—	—	8260	<100	<0.1	<0.5	<0.1	<0.2	—
	12/8/89	—	—	—	8015/8020	—	<0.3	<0.3	<0.3	<0.6	—
	3/21/90	6.76	6.27	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.3	—
	6/19/90	6.62	6.41	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.3	—
	9/20/90	5.00	8.03	—	—	—	—	—	—	—	—
	9/21/90	—	—	—	8015/8020	<50	<0.3	<0.3	<0.3	<0.3	—
	12/28/90	6.62	6.41	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	5/10/91	6.48	6.55	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	8/8/91	8.01	5.02	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	7.95	5.08	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	7.68	5.35	0	8015/8020	<50	<0.5	<0.5	<0.5	1.0	—
	3/26/92	6.60	6.43	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	7/23/92[6]	—	—	—	—	—	—	—	—	—	—
MW-13/											
11.15	3/21/90	4.08	7.07	0	8015/8020	480	<0.3	<0.3	1.0	5.0	—
	6/19/90	4.34	6.81	0	8015/8020	180	<0.3	<0.3	0.8	3.0	—
	9/20/90	5.31	5.84	0	8015/8020	150	<0.3	<0.3	<0.3	0.54	—
	12/28/90	4.79	6.36	0	8015/8020	160	<0.5	<0.5	<0.5	1.0	—
	5/10/91	4.20	6.95	0	8015/8020	110	<0.5	<0.5	<0.5	2.0	—
	8/8/91	5.13	6.02	0	8015/8020	220[4]	<0.5	<0.5	<0.5	1.8	—
	11/27/91	4.72	6.43	0	8015/8020	70	<0.5	<0.5	<0.5	1.2	—
	1/29/92	4.69	6.46	0	8015/8020	150	<0.5	<0.5	3.1	7.1	—
	3/26/92	4.04	7.11	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	7/23/92	5.12	6.03	0	8015/8020	190	<0.5	<0.5	<0.5	2.1	—
	10/28/92	5.30	5.85	0	8015/8020	190	<0.5	<0.5	<0.5	2.0	—
	5/4/93[8]	—	—	—	—	—	—	—	—	—	—
	1/5/94[8]	—	—	—	—	—	—	—	—	—	—
	5/13/94	5.28	5.87	0	8015/8020	220	<0.5	1.2	<0.5	1.7	—
	10/24/94	6.04	5.11	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft)[1]	Date	DTW (ft)	GWE[1] (msl)	Product Thickness[2] (ft)	Analytic Method	TPH(G)	B	T	E	X	MTBE
						<---ppb--->					
MW-13	4/19/95	5.37	5.78	0	8015/8020	140[15]	<0.5	<0.5	<0.5	1.2	---
(cont)	**11/6/95**	**6.13**	**5.02**	**0**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
MW-14/											
9.78	3/21/90	0.91	8.87	0	8015/8020	170	<0.3	<0.3	<0.4	2.0	---
	6/19/90	1.03	8.75	0	8015/8020	77	<0.3	<0.3	<0.3	<0.6	---
	9/20/90	2.53	7.25	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	12/28/90	1.61	8.17	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/10/91	1.22	8.56	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/8/91	2.45	7.33	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/27/91	2.59	7.19	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/92	1.10	8.68	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	3/26/92	0.74	9.04	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/23/92	2.30	7.48	0	8015/8020	<50	0.6	<0.5	<0.5	0.8	---
	10/28/92	2.76	7.02	0	8015/8020	56	0.7	4.0	0.8	3.8	---
	5/4/93[9]	---	---	---	---	---	---	---	---	---	---
MW-15/											
11.01	3/21/90	4.72	6.29	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	6/19/90	4.78	6.23	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	9/20/90	4.98	6.03	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	12/28/90	4.84	6.17	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/10/91	4.58	6.43	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/8/91	5.03	5.98	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/27/91	5.88	5.13	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	4.82	6.19	0	8015/8020	<50	1.9	2.6	0.8	2.6	—
	3/26/92	4.35	6.66	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/23/92	5.04	5.97	0	8015/8020	<50	<0.5	<0.5	<0.5	0.5	---
	10/28/92	5.17	5.84	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/4/93[9]	---	---	---	---	---	---	---	---	---	---
	1/5/94[10]	—	—	—	—	—	—	—	—	—	—
	5/13/94	4.50	6.51	0	8015/8020	110	<0.5	0.7	<0.5	2.0	---
	10/24/94	5.17	5.84	0	8015/8020	<50	2.3	1.1	<0.5	<0.5	—
	4/19/95	4.77	6.24	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	11/6/95	**5.28**	**5.73**	**0**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft)[1]	Date	DTW (ft)	GWE[1] (msl)	Product Thickness[2] (ft)	Analytic Method	TPH(G)	B	T	E	X	MTBE
						<----------ppb---------->					
MW-16/											
11.11	3/21/90	5.84	5.27	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	6/19/90	5.90	5.21	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	9/20/90	6.36	4.75	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	12/28/90	5.98	5.13	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	5/10/91	5.89	5.22	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	8/8/91	6.28	4.83	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	5.62	5.49	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	5.88	5.23	0	8015/8020	65	3.6	6.2	1.9	6.6	---
	3/26/92	5.56	5.55	0	8015/8020	270[3]	21	27	9.5	41	---
	7/23/92	6.29	4.82	0	8015/8020	<50	<0.5	<0.5	<0.5	0.7	---
	10/28/92	6.29	4.82	0	8015/8020	<50	0.9	1.4	<0.5	1.1	---
	5/4/93	5.75	5.36	0	8015/8020	51	<0.5	1.0	0.6	1.7	---
	1/5/94[10]	---	---	---	---	---	---	---	---	---	---
MW-17/											
10.41	3/21/90	5.61	4.80	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	6/19/90	—	---	---	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	9/20/90	6.02	4.39	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	12/28/90	5.73	4.68	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/10/91	5.65	4.76	0	8015/8020	<50	<0.5	<0.5	<0.5	0.8	---
	8/8/91	5.94	4.47	0	8015/8020	82	1.9	2.5	0.9	5.4	---
	11/27/91	6.00	4.41	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/92	5.61	4.80	0	8015/8020	<50	<0.5	0.9	<0.5	0.5	---
	3/26/92	5.31	5.10	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	7/23/92	5.97	4.44	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/28/92	5.96	4.45	0	8015/8020	78	1.0	7.1	1.4	6.5	---
	5/4/93	7.53	2.88	0	8015/8020	60	0.8	1.7	1.1	3.0	—
	1/5/94	5.50	4.91	0	8015/8020	<50	<0.5	0.7	<0.5	<0.5	---
	5/13/94	5.17	5.24	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/24/94	6.08	4.33	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/19/95	5.48	4.93	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/6/95	**6.00**	**4.41**	**0**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	
MW-18/											
9.80	3/21/90	5.15	4.65	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	6/19/90	5.19	4.61	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	9/20/90	5.54	4.26	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	12/28/90	5.26	4.54	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft)[1]	Date	DTW (ft)	GWE[1] (msl)	Product Thickness[2] (ft)	Analytic Method	TPH(G)	B	T	E	X	MTBE
						<——— ppb ———>					
MW-18	5/10/91	5.18	4.62	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
(cont)	8/8/91	5.45	4.35	0	8015/8020	52	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	5.24	4.56	0	8015/8020	<50	0.6	1.5	0.6	2.1	—
	1/29/92	5.12	4.68	0	8015/8020	67	3.7	5.2	1.5	5.0	—
	3/26/92	4.84	4.96	0	8015/8020	80[5]	<0.5	<0.5	<0.5	0.8	—
	7/23/92	5.49	4.31	0	8015/8020	50[5]	1.3	2.1	0.5	3.0	—
	10/28/92	5.47	4.33	0	8015/8020	54	<0.5	1.3	<0.5	1.1	—
	5/4/93	5.07	4.73	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	—
	1/5/94	5.05	4.75	0	8015/8020	<50	<0.5	0.5	<0.5	0.6	—
	5/13/94	4.76	5.04	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	10/24/94	5.65	4.15	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	4/19/95	5.10	4.70	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	11/6/95	**5.57**	**4.23**	**0**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
MW-19/											
8.45	3/21/90	5.00	3.45	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	6/19/90	5.06	3.39	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	9/20/90	5.25	3.20	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	—
	12/28/90	5.07	3.38	0	8015/8020	66	<0.5	<0.5	<0.5	<0.5	—
	5/10/91	5.02	3.43	0	8015/8020	60[4]	<0.5	<0.5	<0.5	<0.5	—
	8/8/91	5.17	3.28	0	8015/8020	58	<0.5	<0.5	<0.5	<0.5	—
	11/27/91	5.06	3.39	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	1/29/92	4.93	3.52	0	8015/8020	<50	1.7	2.6	0.7	2.1	—
	3/26/92	4.79	3.66	0	8015/8020	80[5]	<0.5	<0.5	<0.5	<0.5	—
	7/23/92	5.22	3.23	0	8015/8020	70[5]	0.6	0.5	<0.5	1.5	—
	10/28/92	5.16	3.29	0	8015/8020	170	4.3	28	5.1	24	—
	5/4/93	4.93	3.52	0	8015/8020	120	2.0	4.7	2.8	8.1	—
	1/5/94	4.91	3.54	0	8015/8020	<50	2.0	1.4	1.7	2.5	—
	5/13/94	4.18	4.27	0	8015/8020	<50	<0.5	0.9	<0.5	<0.5	—
	10/24/94	4.85	3.60	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	—
	4/19/95	4.20	4.25	0	8015/8020	270[15]	<0.5	<0.5	<0.5	<0.5	—
	11/6/95	**Abandoned**	—	—	—	—	—	—	—	—	—
MW-19A											
9.96	**11/6/95**	**4.85**	**5.11**	**0**	**8015/8020**	**420**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
Trip Blank											
AA	4/14/89	—	—	—	8260	<50	<0.5	<1.0	<1.0	<1.0	—
	7/31/89	—	—	—	8260	<50	<0.1	<0.5	<0.5	<0.2	—

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft)[1]	Date	DTW (ft)	GWE[1] (msl)	Product Thickness[2] (ft)	Analytic Method	TPH(G)	B	T	E	X	MTBE
						<----	----	ppb	----	----	---->
Trip Blank (cont)	12/8/89	---	---	---	8015/8020	---	<0.3	<0.3	<0.3	<0.6	---
	3/21/90	---	---	---	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	3/26/90	---	---	---	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	6/19/90	---	---	---	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	9/21/90	---	---	---	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	---
	12/28/90	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.6	---
	5/10/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/8/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/27/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	3/26/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
TB-LB	7/23/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/28/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/4/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---
	1/5/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/13/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/24/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	4/19/95	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/6/95	**---**	**---**	**---**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
Bailer Blank											
BB	5/10/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	8/8/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	11/27/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	1/29/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	3/26/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	7/23/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	10/28/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/4/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---
	1/5/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---
	5/13/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

EXPLANATION:

DTW = Depth to water
TOC = Top of casing elevation
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
O&G = Oil and Grease
ppb = Parts per billion
ppm = Parts per million
— = Not available/not applicable

ANALYTIC METHODS:

8260 = EPA Method 8260 for TPPH(G) & BTEX
8015 = EPA Method 8015/8030 for TPPH(G)
8020 = EPA Method 8020 for BTEX

NOTES:

Water level elevation data and laboratory analytic results prior to April 19, 1995 were compiled from the quarterly groundwater monitoring reports prepared for Chevron by Sierra Environmental Services.

* Sample was analyzed for O&G (EPA Method 8260) and was <3,000 ppm.

NOTES (continued):

[1] Top of casing elevations shown prior to 3/21/90 were surveyed to an arbitrary datum point set at 100 feet. The GWEs shown for dates prior to 3/21/90 were corrected using new TOC elevations which were surveyed to a USGS benchmark (relative to mean sea level) in April 1990.
[2] Product thickness measurements on and after May 10, 1991 were made using an MMC flexi-dip interface probe. Product thickness information prior to May 10, 1991 was not available for inclusion in this report.
[3] Well construction details for this well is not available for inclusion in this report.
[4] Monitoring well was destroyed during soil excavation in 1989.
[5] Well MW-9 was not measured after 5/10/91 because it could not be located. Previous water level data was not available for inclusion in this report.
[6] Well MW-12 could not be located after building demolition.
[7] Well was obstructed.
[8] Monitoring well obstructed due to on-site construction activities.
[9] Monitoring well abandoned on March 10, 1993 by Soils Exploration Services of Benicia, California.
[10] Well covered with asphalt during construction activities.
[11] Does not match a typical gasoline pattern.
[12] Gasoline range concentration reported. Chromatogram shows only a single peak in the gasoline range.
[13] TPH was reported as Diesel #2.
[14] GWE was corrected for the presence of separate-phase hydrocarbons using: GWE = [(TOC-DTW) + (Prod Thickness)(0.8)]. 0.8 is the assumed specific gravity of separate-phase hydrocarbons.
[15] Laboratory report indicates that hydrocarbons were found in the range of gasoline, but do not resemble a gasoline fingerprint.

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Table 2. Analytical Results for Groundwater - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California

Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-DCE	1,2-DCE	t-1,2-DCE	c-1,2-DCE	1,1-DCA	1,1,1-TCA	TCE	PCE	CF	VC	Other HVOCs
				<--------				ppb						-->
MW-1	4/14/89	CCAS	8010	<5.0	—	19	720	<5.0	<5.0	11	<5.0	<20	340	ND[1]
	7/31/89	CCAS	8010	6.8	—	54	2,600	2.7	7.2	57	<0.2	<1.0	760	ND[2]
	12/8/89	GTEL	8010	4.3	2,700	—	—	1.7	1.4	59	<0.5	<0.5	520	—
	3/21/90	GTEL	8010	7.1	7,000	—	—	2.1	1.1	130	<0.5	<0.5	1,100	—
	6/19/90	GTEL	8010	12	6,100	—	—	3.1	<0.5	81	<0.5	<0.5	1,200	—
	9/21/90	GTEL	8010	1.8	2,400	—	—	2.2	1.7	60	<0.5	<0.5	1,100	ND[3]
	12/28/90	SAL	8010	2.0	—	28	1,500	1.0	0.6	15	<0.5	<0.5	510	ND[4]
	5/10/91	SAL	8010	10	—	69	5,500	2.0	<0.5	280	<0.5	<0.5	1,800	ND[5]
	8/8/91	SAL	8010	2.9	—	45	2,300	1.5	<0.5	110	<0.5	<0.5	<1.0	ND[6]
	11/27/91	SPA	8010	<25	—	<25	5,900	<25	<25	<25	<25	<25	540	ND[20]
	1/29/92	SPA	8010	<25	—	26	1,900	<25	<25	<25	<25	<25	320	ND[20]
	3/26/92	SPA	8010	<50	—	<50	1,500	<50	<50	<50	<50	<50	260	ND[21]
	7/23/92	SPA	8010	<50	—	<50	2,300	<50	<50	<50	<50	<50	170	ND[21]
	10/28/92	SPA	8010	4.2	—	30	1,600	3.6	<0.5	16	<0.5	<0.5	810	ND
	5/4/93	SPA	8010	1.0	—	16	670	0.5	<0.5	9.2	<0.5	<0.5	110	ND[18]
	1/5/94[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/13/94[27]	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-2	4/14/89	CCAS	8010	<0.2	<0.2	—	—	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	—
	7/31/89	CCAS	8010	<0.2	<0.2	—	—	<0.4	0.5	<0.2	<0.2	<1.0	<0.2	—
	12/8/89	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	3/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	6/19/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	9/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	1/29/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	5/4/93[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	1/5/94[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/13/94[28]	—	—	—	—	—	—	—	—	—	—	—	—	—
	10/24/94[30]	—	—	—	—	—	—	—	—	—	—	—	—	—
	11/6/95	Abandoned	—	—	—	—	—	—	—	—	—	—	—	—
MW-2A	11/6/95	GTEL	8010	<1.0	—	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND

Table 2. Analytical Results for Groundwater - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California

Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-DCE	1,2-DCE	t-1,2-DCE	c-1,2-DCE	1,1-DCA	1,1,1-TCA	TCE	PCE	CF	VC	Other HVOCs
				<--------				ppb						-------->
MW-3	4/14/89	CCAS	8010	<0.2	<0.2	—	—	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	—
	7/31/89	CCAS	8010	<0.2	<0.2	—	—	<0.4	0.5	<0.2	<0.2	<1.0	<0.2	—
	12/8/89	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	3/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	6/19/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	9/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	1/29/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	5/4/93[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	1/5/94[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/13/94[27]	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-4	4/14/89[7]	CCAS	8010	<1.0	<1.0	—	—	2.0	<1.0	<1.0	<1.0	<2.0	<1.0	—
MW-5	4/14/89[7]	CCAS	8010	<1.0	<1.0	—	—	2.0	<1.0	<1.0	<1.0	<2.0	<1.0	—
MW-6	4/14/89[7]	CCAS	8010	<1.0	<1.0	—	—	2.0	<1.0	<1.0	<1.0	<2.0	<1.0	—
MW-7	4/14/89	CCAS	8010	<1.0	<1.0	—	—	1.0	1.0	<1.0	<1.0	<2.0	<1.0	—
	7/31/89	CCAS	8010	<0.1	0.3	—	—	0.3	4.5	<0.1	<0.1	<0.5	<0.1	ND[9]
(D)	7/31/89	GTEL	8010	<0.1	0.4	—	—	0.2	2.6	<0.1	<0.1	<0.5	<0.1	ND[8]
	12/8/89	GTEL	8010	<0.2	<0.5	—	—	<0.5	0.67	<0.5	<0.5	<0.5	<1.0	—
	3/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	1.4	<0.5	<0.5	<0.5	<1.0	—
	6/19/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	0.67	<0.5	<0.5	<0.5	<1.0	—
	9/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	1/29/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	5/4/93[24]	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 2. Analytical Results for Groundwater - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California

Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-DCE	1,2-DCE	t-1,2-DCE	c-1,2-DCE	1,1-DCA	1,1,1-TCA	TCE	PCE	CF	VC	Other HVOCs
				<---------- ppb ----------										>
MW-7	1/5/94[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
(cont)	5/13/94	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[29]
	10/24/94	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[29]
	4/19/95	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[16]
	11/6/95	**GTEL**	**8010**	**<1.0**	**—**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**ND**
MW-8	4/14/89	CCAS	8010	<1.0	<1.0	—	—	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	—
	7/31/89	CCAS	8010	<0.1	—	0.6	1.9	1.7	1.7	0.4	<0.1	<0.5	1.2	ND
	12/8/89	GTEL	8010	<0.2	0.53	—	—	<0.5	0.84	<0.5	<0.5	<0.5	<1.0	—
	3/21/90	GTEL	8010	<0.2	0.96	—	—	<0.5	0.72	<0.5	<0.5	<0.5	<1.0	—
	6/19/90	GTEL	8010	<0.2	0.59	—	—	<0.5	0.67	<0.5	<0.5	<0.5	<1.0	—
	9/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	1/29/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	10/28/92[23]	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/4/93[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	1/5/94[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/13/94	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[29]
	10/24/94[28]	—	—	—	—	—	—	—	—	—	—	—	—	—
	4/19/95[28]	—	—	—	—	—	—	—	—	—	—	—	—	—
	11/6/95	**Inaccessible**	—	—	—	—	—	—	—	—	—	—	—	—
MW-9	5/10/91[9]	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-10	4/14/89	CCAS	8010	<1.0	15	—	—	2.0	<1.0	5.0	<1.0	<2.0	<1.0	—
	7/31/89	CCAS	8010	0.7	—	6.3	27	2.9	<0.1	5.3	<0.1	<0.5	<0.1	ND
	12/8/89	GTEL	8010	<0.2	24	—	—	3.1	<0.5	4.9	<0.5	0.6	<1.0	—
	3/21/90	GTEL	8010	0.7	30	—	—	2.5	<0.5	3.5	<0.5	<0.5	<1.0	—
	6/19/90	GTEL	8010	0.3	33	—	—	2.6	<0.5	6.3	<0.5	<0.5	<1.0	—
	9/21/90	GTEL	8010	<0.2	32	—	—	5.0	<0.5	5.9	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	6.0	19	2.0	<0.5	5.0	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	0.6	—	7.0	24	2.0	<0.5	6.0	<0.5	<0.5	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	7.0	33	3.1	<0.5	6.2	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	6.8	100	<0.5	<0.5	8.5	<0.5	<0.5	<1.0	ND

Table 2. Analytical Results for Groundwater - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California

Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-DCE	1,2-DCE	t-1,2-DCE	c-1,2-DCE	1,1-DCA	1,1,1-TCA	TCE	PCE	CF	VC	Other HVOCs
				<——— ppb ———>										
MW-10	1/29/92	SPA	8010	<0.5	—	9.1	30	2.8	<0.5	7.4	<0.5	<0.5	<1.0	ND
(cont)	3/26/92	SPA	8010	0.7	—	9.2	29	2.5	<0.5	6.8	<0.5	<0.5	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	6.1	21	1.5	<0.5	4.7	<0.5	<0.5	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	4.3	16	2.1	<0.5	4.1	<0.5	<0.5	<1.0	ND
	5/4/93[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	1/5/94	SPA	8010	<0.5	—	1.3	5.2	0.5	1.0	0.8	<0.5	<0.5	<1.0	ND[18]
	5/13/94	SPA	8010	<0.5	—	12	31	2.7	<0.5	4.8	<0.5	<0.5	<0.5	ND[29]
	10/24/94[33]	SPA	8010	<10	—	13	44	<10	<10	<10	<10	<10	<10	ND[31,33]
	4/19/95	SPA	8010	0.7	—	14	36	<0.5	<0.5	9.2	<0.5	<0.5	<0.5	ND[18]
	11/6/95	**GTEL**	**8010**	**1.0**	**—**	**19**	**41**	**1.4**	**<1.0**	**14**	**<1.0**	**<1.0**	**<1.0**	**ND**
MW-11	4/14/89	CCAS	8010	<1.0	120	—	—	<1.0	<1.0	4.0	<1.0	<2.0	10	—
	7/31/89	CCAS	8010	0.9	—	40	110	2.2	1.4	2.9	<0.2	<0.2	<0.2	ND
	12/8/89	GTEL	8010	0.5	120	—	—	2.1	1.2	4.1	<0.5	<0.5	2.4	—
	3/21/90	GTEL	8010	1.3	150	—	—	1.2	1.7	3.5	<0.5	<0.5	4.3	ND[10]
	6/19/90	GTEL	8010	0.068	140	—	—	1.3	<0.5	5.0	<0.5	<0.5	1.0	—
	9/21/90	GTEL	8010	<0.2	100	—	—	1.1	<0.5	3.8	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	23	43	0.9	0.7	3.0	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	0.9	—	44	110	0.5	<0.5	5.0	<0.5	<0.5	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	29	77	0.9	<0.5	2.4	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	34	240	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	1/29/92	SPA	8010	<5.0	—	33	91	<5.0	<5.0	<5.0	<5.0	<5.0	<10	ND
	3/26/92	SPA	8010	<2.5	—	21	51	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	ND
	7/23/92	SPA	8010	<0.5	—	18	46	0.6	<0.5	1.4	<0.5	<0.5	<0.5	ND[18]
	10/28/92	SPA	8010	0.5	—	36	80	<0.5	<0.5	4.6	<0.5	<0.5	<1.0	ND
	5/4/93[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	1/5/94[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/13/94	SPA	8010	<0.5	—	62	82	<0.5	<0.5	7.9	<0.5	<0.5	1.7	ND[29]
	10/24/94[33]	SPA	8010	<10	—	28	75	<10	<10	<10	<10	<10	<10	ND[31,33]
	4/19/95	SPA	8010	<0.5	—	18	39	<0.5	<0.5	6.5	<0.5	1.0	<0.5	ND[34]
	11/6/95	**Inaccessible**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**
MW-12	4/14/89	CCAS	8010	<1.0	1.0	—	—	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	—
	7/31/89	CCAS	8010	<0.1	1.7	—	—	<0.1	<0.1	0.8	<0.1	<0.5	<0.1	ND
	12/8/89	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	3/21/90	GTEL	8010	<0.2	<0.5	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	6/19/90	GTEL	8010	<0.2	<0.5	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	9/21/90	GTEL	8010	<0.2	<0.5	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND

Table 2. Analytical Results for Groundwater - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California

Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-DCE	1,2-DCE	t-1,2-DCE	c-1,2-DCE	1,1-DCA	1,1,1-TCA	TCE	PCE	CF	VC	Other HVOCs
				<----------				ppb						---------->
MW-12	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<1.0	ND
(cont)	11/27/91	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	1/29/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	7/23/92[22]	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-13	3/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	6/19/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	9/20/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND[11]
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	1/29/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	5/4/93[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	1/5/94[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/13/94	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[29]
	10/24/94	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[29]
	4/19/95	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[18]
	11/6/95	**GTEL**	**8010**	**<1.0**	**—**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**ND**
MW-14	3/21/90	GTEL	8010	<2.0	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	6/19/90	GTEL	8010	<2.0	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	9/20/90	GTEL	8010	<2.0	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	1/29/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	5/4/93[25]	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-15	3/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	6/19/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	9/20/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—

Table 2. Analytical Results for Groundwater - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California

Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-DCE	1,2-DCE	t-1,2-DCE	c-1,2-DCE	1,1-DCA	1,1,1-TCA	TCE	PCE	CF	VC	Other HVOCs
				<--------				ppb						-------->
MW-15 (cont)	12/28/90	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND[12]
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	1/29/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	10/28/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[18]
	5/4/93[24]	—	—	—	—	—	—	—	—	—	—	—	<1.0	ND
	1/5/94[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/13/94	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[29]
	10/24/94	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	3.1	<0.5	3.8	<0.5	ND[29]
	4/19/95	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[18]
	11/6/95	**GTEL**	**8010**	**<1.0**	—	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**ND**
MW-16	3/21/90	GTEL	8010	<0.2	0.8	—	—	<0.5	<0.5	27	8.0	2.0	<1.0	—
	6/19/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	35	7.0	2.0	<1.0	—
	9/20/90	GTEL	8010	<0.2	0.9	—	—	<0.5	<0.5	49	15	4.1	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	29	18	4.0	<1.0	ND[13]
	5/10/91	SAL	8010	<0.5	—	<0.5	0.5	<0.5	<0.5	32	10	4.0	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	35	13	1.9	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	1.3	<0.5	<0.5	47	12	1.8	<1.0	ND[15]
	1/29/92	SPA	8010	<0.5	—	<0.5	0.9	<0.5	<0.5	31	11	1.8	<1.0	ND
	3/26/92	SPA	8010	<0.8	—	<0.8	<0.8	<0.8	<0.8	24	8.5	1.7	<1.7	ND[19]
	7/23/92	SPA	8010	<0.5	—	<0.5	0.9	<0.5	<0.5	37	12	1.0	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	<0.5	1.7	<0.5	<0.5	39	14	1.1	<1.0	ND
	5/4/93	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	32	10	1.1	<1	ND[18]
	1/5/94[24]	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/13/94[27]	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-17	3/21/90	GTEL	8010	<0.2	5.2	—	—	0.7	1.3	32	11	1.1	<1.0	—
	6/19/90	GTEL	8010	<0.2	3.1	—	—	<0.5	1.0	38	13	1.2	<1.0	—
	9/20/90	GTEL	8010	<0.2	2.4	—	—	<0.5	1.4	44	16	2.8	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	2.0	<0.5	0.6	34	15	2.0	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	3.0	<0.5	0.6	37	14	1.0	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	<0.5	2.5	<0.5	<0.5	69	15	0.9	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	13	<0.5	<0.5	59	14	2.4	<1.0	ND
	1/29/92	SPA	8010	<0.5	—	<0.5	2.9	<0.5	0.8	35	15	1.1	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	1.5	<0.5	0.7	41	12	0.6	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	<0.5	1.1	<0.5	<0.5	31	14	0.8	<0.5	ND[18]

Table 2. Analytical Results for Groundwater - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California

Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-DCE	1,2-DCE	t-1,2-DCE	c-1,2-DCE	1,1-DCA	1,1,1-TCA	TCE	PCE	CF	VC	Other HVOCs
				<———				ppb						———>
MW-17	10/28/92	SPA	8010	<0.5	—	<0.5	1.6	<0.5	<0.5	42	11	0.8	<1.0	ND
(cont)	5/4/93	SPA	8010	<0.5	—	<0.5	1.1	<0.5	<0.5	26	12	0.6	<1.0	ND[18]
	1/5/94	SPA	8010	<0.5	—	<0.5	1.1	<0.5	<0.5	25	13	0.8	<1.0	ND[18]
	5/13/94	SPA	8010	<0.5	—	<0.5	1.0	<0.5	0.6	23	13	<0.5	<0.5	ND[29]
	10/24/94	SPA	8010	<0.5	—	<0.5	1.4	<0.5	<0.5	26	13	<0.5	<0.5	ND[29]
	4/19/95	SPA	8010	<0.5	—	<0.5	0.9	<0.5	1.1	21	12	1.2	<0.5	ND[18]
	11/6/95	**GTEL**	**8010**	**<1.0**	—	**<1.0**	**1.1**	**<1.0**	**<1.0**	**29**	**13**	**<1.0**	**<1.0**	**ND**
MW-18	3/21/90	GTEL	8010	<0.2	1.7	—	—	<0.5	2.4	33	20	0.9	<1.0	—
	6/19/90	GTEL	8010	<0.2	2.7	—	—	<0.5	0.9	63	20	0.73	<1.0	—
	9/20/90	GTEL	8010	<0.2	3.3	—	—	<0.5	1.6	76	25	1.7	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	2.0	<0.5	0.8	44	21	1.0	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	2.0	<0.5	0.7	47	20	2.0	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	<0.5	2.0	<0.5	0.7	32	25	1.0	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	3.6	<0.5	0.5	60	18	1.5	<1.0	ND
	1/29/92	SPA	8010	<5.0	—	<5.0	<5.0	<5.0	<5.0	67	17	<5.0	<10	ND
	3/26/92	SPA	8010	<1.2	—	<1.2	6.4	<1.2	<1.2	130	19	1.7	<2.5	ND
	7/23/92	SPA	8010	<0.5	—	<0.5	3.0	<0.5	0.5	67	19	0.8	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	<0.5	1.1	<0.5	<0.5	52	14	0.8	<1.0	ND
	5/4/93	SPA	8010	<0.5	—	<0.5	1.9	<0.5	0.7	48	18	2.5	<1.0	ND[26]
	1/5/94	SPA	8010	<0.5	—	<0.5	4.0	<0.5	0.8	94	17	1.0	<1.0	ND[18]
	5/13/94	SPA	8010	<0.5	—	<0.5	0.8	<0.5	0.8	16	15	0.8	<0.5	ND[29]
	10/27/94	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	22	15	1.2	<0.5	ND[29]
	4/19/95	SPA	8010	<0.5	—	<0.5	2.2	<0.5	1.3	46	14	1.1	<0.5	ND[35]
	11/6/95	**GTEL**	**8010**	**<1.0**	—	**<1.0**	**1.8**	**<1.0**	**1.2**	**45**	**18**	**<1.0**	**<1.0**	**ND**
MW-19	3/21/90	GTEL	8010	<0.2	10	—	—	<0.5	2.5	41	53	3.2	<1.0	—
	6/19/90	GTEL	8010	<0.2	13	—	—	<0.5	1.5	46	47	2.8	<1.0	—
	9/20/90	GTEL	8010	<0.2	5.8	—	—	<0.5	2.5	39	32	3.1	<1.0	—
	12/28/90	SAL	8010	<0.5	—	0.8	22	<0.5	1.0	40	44	3.0	<1.0	—
	5/10/91	SAL	8010	<0.5	—	2.0	12	<0.5	1.0	47	47	3.0	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	1.1	4.8	<0.5	1.1	41	35	2.8	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	1.9	29	<0.5	0.9	59	31	2.7	<1.0	ND
	1/29/92	SPA	8010	<5.0	—	<5.0	8.9	<5.0	<5.0	51	44	3.0	<10	ND
	3/26/92	SPA	8010	<1.2	—	1.7	23	<1.2	1.5	68	130	1.4	<2.5	ND[17]
	7/23/92	SPA	8010	1.1	—	1.4	5.6	<0.5	1.0	61	38	3.3	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	0.9	5.3	<0.5	1.1	46	24	2.2	<1.0	ND
	5/4/93	SPA	8010	<0.5	—	2.5	8.7	0.5	1.1	69	32	3.9	<1.0	ND[18]
	1/5/94	SPA	8010	<0.5	—	1.7	1.7	<0.5	16	49	46	<0.5	<1.0	ND[18]
	5/13/94	SPA	8010	<0.5	—	1.8	22	<0.5	0.7	40	58	<0.5	<0.5	ND[29]

Table 2. Analytical Results for Groundwater - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California

Well ID	Date Sampled	Analytic Lab	Analytic Method	1,1-DCE	1,2-DCE	t-1,2-DCE	c-1,2-DCE	1,1-DCA	1,1,1-TCA	TCE	PCE	CF	VC	Other HVOCs
				<--------				ppb						-->
MW-19	10/24/94[35]	SPA	8010	<50	—	110	54	<50	<50	98	300	<50	<50	ND[32,33]
(cont)	4/19/95	SPA	8010	<0.5	—	<0.5	65	<0.5	<0.5	130	670	<0.5	<0.5	ND[18]
	11/6/95	**Abandoned**	—	—	—	—	—	—	—	—	—	—	—	—
MW-19A	**11/6/95**	**GTEL**	**8010**	**1.0**	—	**<1.0**	**110**	**<1.0**	**<1.0**	**160**	**1,500**	**<1.0**	**<1.0**	**ND**
Trip Blank														
AA	4/14/89	CCAS	8010	<1.0	<0.5	—	—	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	—
	7/31/89	CCAS	8010	<0.1	<0.5	—	—	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	—
	12/8/89	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	3/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	3/26/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	6/19/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	9/21/90	GTEL	8010	<0.2	<0.5	—	—	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	12/28/90	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	—
	5/10/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND[14]
	11/27/91	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND[16]
	1/29/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	5/4/93	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	ND[18]
	11/6/95	**GTEL**	**8010**	**<1.0**	—	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**ND**
Bailer Blank														
BB	5/10/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	8/8/91	SAL	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	11/27/91	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND[16]
	1/29/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	3/26/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	7/23/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND[18]
	10/28/92	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
	5/4/93	SPA	8010	<0.5	—	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	ND[18]

Table 2. Analytical Results for Groundwater - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

EXPLANATION:

1,1-DCE = 1,1-Dichloroethene
1,2-DCE = 1,2-Dichloroethene
t-1,2-DCE = trans-1,2-Dichloroethene
c-1,2-DCE = cis-1,2-Dichloroethene
1,1-DCA = 1,1-Dichloroethane
1,1,1-TCA = 1,1,1-Trichloroethane
TCE = Trichloroethene
PCE = Tetrachloroethene
CF = Chloroform
VC = Vinyl Chloride
Other HVOCs = Other Halogenated Volatile Organic Compounds
ppb = Parts per billion
--- = Not analyzed/not applicable
ND = Not detected at detection limits of 0.5 to 1 ppb
D = Duplicate analysis

ANALYTICAL METHOD:

VOC = EPA Method 8010 for Volatile Organic Compounds

ANALYTICAL LABORATORIES:

CCAS = Coast to Coast Analytical Services of San Luis Obispo, California
GTEL = Groundwater Technologies Environmental Laboratory of Concord, California
SAL = Superior Analytical Laboratory of Martinez and San Francisco, California
SPA = Superior Precision Analytical, Inc. of Martinez and San Francisco, California

NOTES:

Analytic results prior to April 19, 1995 were compiled from the quarterly groundwater monitoring reports prepared for Chevron by Sierra Environmental Services.

[1] 6 ppb 1,2-dichloropropane detected; other HVOCs not detected.
[2] 0.6 ppb 1,2-dichloroethane detected; other HVOCs not detected.
[3] 63 ppb chloromethane and 0.6 ppb methylene chloride detected; other HVOCs not detected; sample contained 1,250 ppb total dissolved solids.

NOTES: (continued)

[4] 0.9 ppb trans-1,3-dichloropropane detected; other HVOCs not detected; sample contained 810 ppb total dissolved solids.
[5] 0.9 ppb trichlorofluoromethane and 1 ppb trans-1,3-dichloropropane detected; other HVOCs not detected.
[6] 11 ppb trans-1,3-dichloropropane detected; other HVOCs not detected.
[7] Monitoring well was destroyed during excavation in 1989.
[8] 0.1 ppb 1,2-dichlorobenzene detected; other HVOCs not detected.
[9] Well MW-9 was not sampled after 5/10/91 because it could not be located. Previous analytic data were not available for inclusion in this report.
[10] 1.8 ppb 1,2-dichloroethane detected; other HVOCs not detected
[11] 3 ppb 1,1,2,2-tetrachloroethane detected; other HVOCs not detected.
[12] 0.9 ppb 1,2-dichlorobenzene detected; other HVOCs not detected.
[13] 0.5 ppb 1,2-dichloroethane detected; other HVOCs not detected.
[14] 3.1 ppb 1,2-dichlorobenzene detected; other HVOCs not detected.
[15] 0.9 ppb 1,2-dichloroethane detected; other HVOCs not detected.
[16] Trace concentrations of trihalomethane compounds detected in bailer blank.
[17] 1,1,2,2-Tetrachloroethane detected at 1.8 ppb; other HVOCs not detected at detection limits of 1.2 to 2.5 ppb.
[18] Other HVOCs not detected at detection limit of 0.5 ppb.
[19] Other HVOCs not detected at detection limits ranging from 0.8 to 1.7 ppb.
[20] Other HVOCs not detected at detection limits of 25 ppb.
[21] Other HVOCs not detected at detection limits of 50 ppb.
[22] Well MW-12 could not be located after building demolition.
[23] Well MW-8 was obstructed, therefore ground water samples could not be taken.
[24] Monitoring well obstructed due to on-site construction activities.
[25] Monitoring well abandoned on March 10, 1993 by Soils Expoloration Services of Benicia, California.
[26] Dichloromethane detected at 6.2 ppb; other HVOCs not detected at detection limits of 0.5 ppb.
[27] Well paved over as a result of on-site construction activities.
[28] Well obstructed.
[29] Other HVOCs not detected at detection limits of 0.5 to 1.0 ppb.
[30] Well was dry.
[31] Other HVOCs not detected at detection limits of 10 to 20 ppb.
[32] Other HVOCs not detected at detection limits of 50 to 100 ppb.
[33] Detection limits raised due to sample dilution.
[34] Chloromethane was detected at 2.4 ppb. Other HVOCs not detected at detection limits of 0.5 ppb.
[35] Chloromethane was detected at 0.6 ppb. Other HVOCs not detected at detection limits of 0.5 ppb.

5161voc.tqm

STANDARD OPERATING PROCEDURE
QUARTERLY 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 pevention 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 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 analytic 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, preservative (if any), and the sample collector's initials. The water samples are placed in cooler maintained at 4 C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivery 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 and decontamination water generated during sampling activities is taken to Chevron's Richmond Refinery for disposal.

WELL SAMPLING FIELD DATA SHEET

SAMPLER: Guadalupe Sanchez | DATE: 11-6-95

ADDRESS: Powell @ Landgren | JOB #: 5161.85

CITY: Emeryville | SS#: 1001067

Well ID: MW-2A | Well Condition: OK

Well Location Description: ~30 from parking entrance & ~6' from 3rd parking space NE

Well Diameter: 2 in | Hydrocarbon Thickness: 0

Total Depth: 14.9 ft

Depth to Liquid: 4.51 ft

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

3 # of casing Volume: 10.39 x .17 x(VF) 1.8 = Estimated purge Volume 5.3 gal.

Purge Equipment: Stack Pump | Sampling Equipment: Disposable Bailer

Did well dewater: No | If yes, Time: ___ | Volume: ___

Starting Time: 1451 | Purging Flow Rate: 2 gpm.

Sampling Time: 1500

Time	pH	Conductivity	Temperature	Volume
1452	6.9	810	71.2	2 gal
1453	6.9	820	70.3	4
1454	7.1	820	70.0	5
1500	7.1	820	70.0	~~6~~

Weather Conditions: Sunny

Water Color: Clear | Odor: ~~none~~ mild

Sediment Description: none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-2A	6 x 40ml	Y	HCl	GTEL	Gas BTEX + 8010

Comments: ___

WELL SAMPLING FIELD DATA SHEET

SAMPLER: Guadalupe Sanchez | DATE: 11-6-95

ADDRESS: Powell @ Landgren | JOB #: 5161.85

CITY: Emeryville | SS#: 1001067

Well ID: MW-7 | Well Condition: OK

Well Location Description: ~4' from RR tracks on the boarding train area

Well Diameter: 3 in | Hydrocarbon Thickness:

Total Depth: 14.0 ft

Depth to Liquid: 5.11 ft

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

3 # of casing Volume: 8.89 x .38 x(VF) 3.4 #Estimated purge Volume: 10.2 gal.

Purge Equipment: Stack Pump | Sampling Equipment: Disposable Bailer

Did well dewater: Yes | If yes, Time: 1114 | Volume: 4 gal

Starting Time: 1110 | Purging Flow Rate: 2 gpm.

Sampling Time: 1205

Time	pH	Conductivity	Temperature	Volume
1112	6.8	580	70.3	4 gal
1114	6.8	530	69.8	8 gal
1205	6.8	550	70.1	9 gal

Weather Conditions: Sunny

Water Color: clear | Odor: none

Sediment Description: none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-7	6 x 40ml	Y	HCl	GTEL	Gas BTEX + 8010

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: Guadalupe Sanchez | DATE: 11-6-95

ADDRESS: Powell @ Landgren | JOB #: 5161.85

CITY: Emeryville | SS#: 1001067

Well ID: MW-10 | Well Condition: OK

Well Location Description: ~30' from Overpass Stairs & ~10' from storm drain

Well Diameter: 4 in | Hydrocarbon Thickness: 0

Total Depth: 20.0 ft

Depth to Liquid: 6.25 ft

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

3 # of casing Volume: 13.75 x .66 x(VF) 9.1 #Estimated purge Volume: 27.2 gal.

Purge Equipment: Stack Pump | Sampling Equipment: Disposable Bailer

Did well dewater: No | If yes, Time: ___ | Volume: ___

Starting Time: 1416 | Purging Flow Rate: 2 gpm.

Sampling Time: 1431

Time	pH	Conductivity	Temperature	Volume
1421	6.9	430	62.6	10 gal
1426	7.0	420	63.7	20
1430	6.9	420	63.4	28
1431	6.9	420	63.4	29

Weather Conditions: Sunny

Water Color: Clear | Odor: none

Sediment Description: none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-10	6 X 40 ml	Y	HCl	GTEL	Gas, BTEX + 8010

Comments: Installed new Chevron lock

WELL SAMPLING FIELD DATA SHEET

SAMPLER: Guadalupe Sanchez | DATE: 11-6-95

ADDRESS: Powell @ Landgren | JOB #: 5161.85

CITY: Emeryville | SS#: 1001067

Well ID: MW-13 | Well Condition: OK

Well Location Description: ~6' from the Emeryville S.F. Connection sign

Well Diameter: 3 in | Hydrocarbon Thickness: -0-

Total Depth: 15.0 ft

Depth to Liquid: 6.13 ft

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

3 # of casing Volume: 8.87 x .38 x(VF) 3.4 #Estimated purge Volume: 10.2 gal.

Purge Equipment: Stack Pump | Sampling Equipment: Disposable Bailer

Did well dewater: NO | If yes, Time: ___ | Volume: ___

Starting Time: 1138

Sampling Time: 1148

Purging Flow Rate: 2 gpm.

Time	pH	Conductivity	Temperature	Volume
1140	6.8	1010	69.6	4 gal
1142	6.9	1000	70.9	8
1143	6.9	1000	70.4	10
1148	6.9	1000	70.4	11

Weather Conditions: sunny

Water Color: clear | Odor: none

Sediment Description: none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-13	6 x 40 ml	Y	HCl	GTEL	Gas BTEX + 8010

Comments: Lid does not have bolts to secure the lid - Bolts cannot be installed due to missing base for the bolts.

WELL SAMPLING FIELD DATA SHEET

SAMPLER: Guadalupe Sanchez | DATE: 11-6-95

ADDRESS: Powell @ Landgren | JOB #: 5161.85

CITY: Emeryville | SS#: 1001067

Well ID: MW-15 | Well Condition: Catchm run off

Well Location Description: On the pedestrian crosswalk ~ 20' from the sidewalk

Well Diameter: 4 in | Hydrocarbon Thickness:

Total Depth: 7.0 ft

Depth to Liquid: 5.28 ft

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

3 # of casing Volume: 1.72 x .66 x(VF) 1.1 = #Estimated purge Volume: 3.4 gal.

Purge Equipment: ~~Stack Pump~~ Bailer | Sampling Equipment: Disposable Bailer

Did well dewater: Yes | If yes, Time: 1220 | Volume: 1.5 gal

Starting Time: 1216

Sampling Time: ~~Yes~~ 1238 | Purging Flow Rate: — gpm.

Time	pH	Conductivity	Temperature	Volume
1218	7.4	380	66.4	1 gal
1220	7.2	370	66.0	1.5 gal
1238	7.1	370	65.8	2.0 gal

Weather Conditions: Sunny

Water Color: brown | Odor: none

Sediment Description: none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-15	6 x 40ml	Y	HCl	GTEL	Gas, BTEX + 8010

Comments: Bolts cannot be installed to secure the lid due to missing base for the bolts

WELL SAMPLING FIELD DATA SHEET

SAMPLER: Guadalupe Sanchez | DATE: 11-6-95

ADDRESS: Powell @ Landgren | JOB #: 5161.85

CITY: Emeryville | SS#: 1001067

Well ID: MW-17 | Well Condition: OK

Well Location Description: ~8' from APEX Bldg. & under the overpass

Well Diameter: 2 in | Hydrocarbon Thickness: 0

Total Depth: 12.0 ft

Depth to Liquid: 6.00 ft

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

1 # of casing Volume: 6.00 x .17 x(VF) 1.0 #Estimated purge Volume: 3.0 gal.

Purge Equipment: Stack Pump | Sampling Equipment: Disposable Bailer

Did well dewater: No | If yes, Time: — | Volume: —

Starting Time: 1305

Sampling Time: 1312

Purging Flow Rate: — gpm.

Time	pH	Conductivity	Temperature	Volume
1307	6.7	310	65.3	1 gal
1309	6.4	300	65.5	2 gal
1312	6.4	300	65.6	3 gal

Weather Conditions: Sunny

Water Color: brown | Odor: none

Sediment Description: clay

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-17	6x40ml	Y	HCl	GTEL	Gas, BTEX + 8010

Comments: Enco Lid — Lid needs to be re-tapped to secure the lid

WELL SAMPLING FIELD DATA SHEET

SAMPLER: Guadalupe Sanchez | DATE: 11-6-95

ADDRESS: Powell @ Landgren | JOB #: 5161.85

CITY: Emeryville | SS#: 1001067

Well ID: MW-18 | Well Condition: OK

Well Location Description: ~8' from the wall & ~10' from the column.

Well Diameter: 2 in | Hydrocarbon Thickness: 0

Total Depth: 11.0 ft

Depth to Liquid: 5.57 ft

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

3 # of casing Volume: 5.43 x 0.17 x(VF) 0.9 #Estimated purge Volume: 2.7 gal.

Purge Equipment: ~~Stack Pump~~ Bailer | Sampling Equipment: Disposable Bailer

Did well dewater: No | If yes, Time: ___ | Volume: ___

Starting Time: 1330

Sampling Time: 1337

Purging Flow Rate: ___ gpm.

Time	pH	Conductivity	Temperature	Volume
1332	6.4	300	63.8	1 gal
1334	6.4	290	63.2	2 ↓
1337	6.4	290	63.1	3 ↓

Weather Conditions: Sunny

Water Color: brown | Odor: none

Sediment Description: none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-18	6 x 40 ml	Y	HCl	GTEL	Gas, BTEX + 8010

Comments: Well lid is broken - only 1 bolts holds the lid. Replaced lock with a Chevron Lock.

WELL SAMPLING FIELD DATA SHEET

SAMPLER: Guadalupe Sanchez | DATE: 11-6-95

ADDRESS: Powell @ Landgren | JOB #: 5161.85

CITY: Emeryville | SS#: 1001067

Well ID: MW-19A | Well Condition: ok

Well Location Description: ~6' from overpass column & ~30' from RR tracks

Well Diameter: 2 in | Hydrocarbon Thickness: 0

Total Depth: 14.9 ft

Depth to Liquid: 4.85 ft

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

1 # of casing Volume: 10.05 x .17 x(VF) 1.7 #Estimated purge Volume: 5.1 gal.

Purge Equipment: Stack Pump | Sampling Equipment: Disposable Bailer

Did well dewater: No | If yes, Time: ___ | Volume: ___

Starting Time: 1349 | Purging Flow Rate: 2 gpm.

Sampling Time: 1357

Time	pH	Conductivity	Temperature	Volume
1350	6.7	430	65.3	2 Gal
1351	6.5	250	67.1	4
1352	6.9	280	67.6	6
1357	6.9	280	677	7

Weather Conditions: sunny

Water Color: brown | Odor: none

Sediment Description: none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-19A	6 x 40ml	Y	HCl	GTEL	Gas BTEX + 8010

Comments: ___

Fax copy of Lab Report and COC to Chevron Contact: ☐ 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: 1001067
Facility Address: Powell @ Landgren Emeryville
Consultant Project Number: 5161.85
Consultant Name: Gettler-Ryan
Address: 6747 Sierra Ct, Ste J, Dublin 94568
Project Contact (Name): Deanna Harding
(Phone): 510 551-7555 (Fax Number): 510 551-7888

Chevron Contact (Name): Bob Cochran
(Phone): (510) 842-9655
Laboratory Name: GTEL
Laboratory Release Number: 3479440
Samples Collected by (Name): GUADALUPE SANCHEZ
Collection Date: 11-6-95
Signature: Guadalupe Sanchez

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)	BTEX + TPH GAS (8020 + 8015) * w/ MTBE	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	X			X					Analyze in order
MW-7	02	6			1205											
MW-13	03				1148											
MW-15	04				1238											
MW-17	05				1312											
MW-18	06				1337											
MW-19A	07				1357											
MW-10	08				1435											
MW-2A	09	↓	↓	↓	1500	↓	↓	↓			↓					No Seals
	10															
	11															
	12															

DO NOT BILL TB-LB ANALYSIS

* Run BTEX with MTBE

5555960482

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Guadalupe Sanchez	G/R	11-6-95 1700	Deanna Harding	G-R	11/7/95 0:17
Relinquished By (Signature) Deanna Harding	Organization G-R	Date/Time 11/7/95 13:15	Received By (Signature) Joan Weber	Organization GTEL	Date/Time 11/7/95 13:15
Relinquished By (Signature) Joan Weber	Organization GTEL	Date/Time 11/7/95 1600	Received For Laboratory By (Signature) Sammy Alderson		Date/Time 11/8/95 0850

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

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

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

November 15, 1995

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

RE: GTEL Client ID: GTR01CHV08
Login Number: W5110155
Project ID (number): 5161.85
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/CA

Dear Deanna Harding:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 11/08/95.

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.

GTEL is certified by the 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: W5110155
Project ID (number): 5161.85
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/CA

Method: EPA 8020
Matrix: Aqueous

	GTEL Sample Number	W5110155-01	W5110155-02	W5110155-03	W5110155-04
	Client ID	TB-LB	MW-7	MW-13	MW-15
	Date Sampled		11/06/95	11/06/95	11/06/95
	Date Analyzed	11/11/95	11/11/95	11/11/95	11/12/95
	Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:			
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	< 50

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 1.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
Login Number: W5110155
Project ID (number): 5161.85
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/CA

Method: EPA 8020
Matrix: Aqueous

GTEL Sample Number	W5110155-05	W5110155-06	W5110155-07	W5110155-08
Client ID	MW-17	MW-18	MW-19A	MW-10
Date Sampled	11/06/95	11/06/95	11/06/95	11/06/95
Date Analyzed	11/12/95	11/12/95	11/12/95	11/12/95
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:			
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	420	< 50

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 1.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
Login Number: W5110155
Project ID (number): 5161.85 Method: EPA 8020
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/CA Matrix: Aqueous

GTEL Sample Number	W5110155-09	--	--	--
Client ID	MW-2A	--	--	--
Date Sampled	11/06/95	--	--	--
Date Analyzed	11/12/95	--	--	--
Dilution Factor	1.00	--	--	--

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

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 1.

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W5110155 Volatile Organics
Project ID (number): 5161.85 Method: EPA 8020
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/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 QUALITY CONTROL RESULTS
Login Number: W5110155 Volatile Organics
Project ID (number): 5161.85 Method: EPA 8020
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/CA Matrix: Aqueous

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT
Method: EPA 8020		Acceptability Limits:	43-136%
111195GC10-1	CV1111952010	Calibration Verifi	69.9
111195GC10-2	BW11119510	Method Blank Water	70.8
111195GC10-3	DP11015507	Duplicate	77.5
111195GC10-4	CM1111952010	Calibration Verifi	76.5
111195GC10-5	DP11014802	Duplicate	77.1
111195GC10-6	MS11014805	Matrix Spike	76.0
111195GC10-8	LW1111952010	Laboratory Control	80.2
--	11015501	TB-LB	75.8
--	11015502	MW-7	79.8
--	11015503	MW-13	86.1
--	11015504	MW-15	77.2
--	11015505	MW-17	78.0
--	11015506	MW-18	76.5
--	11015507	MW-19A	78.3
--	11015508	MW-10	77.1
--	11015509	MW-2A	80.6

Notes:

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

Project ID (Number): 5161.85
Project ID (Name): Chevron SS #1001067
Powell @ Landgren
Emeryville, CA
Work Order Number: W5-11-0155
Date Reported: 11-14-95

METHOD BLANK REPORT

Volatile Organics in Water
EPA Method 8020

Date of Analysis: 11-Nov-95 QC Batch No: 111195GC10-2

Analyte	Concentration, ug/L
MTBE	<5.0
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
Xylene (total)	<0.5
TPH as Gasoline	<50

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W5110155 Volatile Organics
Project ID (number): 5161.85 Method: EPA 8020
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/CA Matrix: Aqueous

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8020 Units:ug/L	QC Batch:111195GC10-1			
Benzene	20.0	19.7	98.5	77-123%
Toluene	20.0	20.8	104.	77.5-122.5%
Ethylbenzene	20.0	19.3	96.5	63-137%
Xylenes (Total)	40.0	40.1	100.	85-115%
TPH as Gasoline	500.	597.	119.	80-120%

Notes:
QC check source: Supelco #LA12389

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W5110155 Volatile Organics
Project ID (number): 5161.85 Method: EPA 8020
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/CA Matrix: Aqueous

Continuing Calibration Verification Sample Summary

Analyte		Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8020	Units:ug/L	QC Batch:111195GC10-4			
Benzene		20.0	19.8	99.0	85-115%
Toluene		20.0	20.8	104.	85-115%
Ethylbenzene		20.0	19.7	98.5	85-115%
Xylenes (Total)		40.0	40.2	101.	85-115%

Notes:

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W5110155 Volatile Organics
Project ID (number): 5161.85 Method: EPA 8020
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/CA Matrix: Aqueous

Laboratory Control Sample Summary

Analyte		Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8020	Units:ug/L	QC Batch:111195GC10-8			
Benzene		20.0	16.5	82.5	39-150%
Toluene		20.0	16.5	82.5	46-148%
Ethylbenzene		20.0	13.7	68.5	32-160%
Xylenes (Total)		60.0	47.5	79.2	51-145%

Notes:

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W5110155 Volatile Organics
Project ID (number): 5161.85 Method: EPA 8020
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/CA Matrix: Aqueous

Duplicate Sample Results

Analyte	Original Concentration	Duplicate Concentration	RPD, %	Acceptability Limits, %
EPA 8020 Units: ug/L	QC Batch: 111195GC10-5	GTEL Sample ID: W5110148-02		Client ID: Batch QC
MTBE	< 500	< 500.	NA	20
Benzene	361.	353.	2.24	23.9
Toluene	12300	12000	2.47	27.2
Ethylbenzene	5270	5130	2.69	21.6
Xylenes (Total)	30700	30100	1.97	22.0
TPH as Gasoline	99900	97300	2.64	20
EPA 8020 Units: ug/L	QC Batch: 111195GC10-3	GTEL Sample ID: W5110155-07		Client ID: MW-19A
MTBE	< 10.0	< 10.0	NA	20
Benzene	< 0.500	< 0.500	NA	23.9
Toluene	< 1.00	< 1.00	NA	27.2
Ethylbenzene	< 1.00	< 1.00	NA	21.6
Xylenes (Total)	< 2.00	< 2.00	NA	22.0
TPH as Gasoline	424.	457.	7.49	20

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

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W5110155 Volatile Organics
Project ID (number): 5161.85 Method: EPA 8020
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/CA Matrix: Aqueous

Matrix Spike(MS) Results

GTEL Sample ID:W5110148-05 MS ID:MS11014805
Analysis Date: 12-NOV-95 12-NOV-95

Units: ug/L Analyte	Sample Conc.	Spike Added	MS Conc.	MS % Rec.	Acceptability Limits %Rec.
Benzene	< 0.5 (0.000)	20.0	18.7	93.5	67-110
Toluene	< 0.5 (0.000)	20.0	18.8	94.0	68-115
Ethylbenzene	< 0.5 (0.000)	20.0	16.1	80.5	65-120
Xylenes (Total)	< 0.5 (0.000)	60.0	54.1	90.2	62-119

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

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
Login Number: W5110155
Project ID (number): 5161.85
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/CA

Method: EPA 8010
Matrix: Aqueous

	GTEL Sample Number	W5110155-01	W5110155-02	W5110155-03	W5110155-04
	Client ID	TB-LB	MW-7	MW-13	MW-15
	Date Sampled		11/06/95	11/06/95	11/06/95
	Date Analyzed	11/09/95	11/09/95	11/09/95	11/09/95
	Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:			
Dichlorodifluoromethane	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0
Chloromethane	2.0	ug/L	< 2.0	< 2.0	< 2.0	< 2.0
Vinyl Chloride	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	2.0	ug/L	< 2.0	< 2.0	< 2.0	< 2.0
Chloroethane	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Methylene Chloride	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Carbon tetrachloride	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
2-Chloroethylvinyl ether	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	2.0	ug/L	< 2.0	< 2.0	< 2.0	< 2.0
1,1,2,2-Tetrachloroethane	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8010:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 1.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
Login Number: W5110155
Project ID (number): 5161.85
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/CA

Method: EPA 8010
Matrix: Aqueous

GTEL Sample Number	W5110155-05	W5110155-06	W5110155-07	W5110155-08
Client ID	MW-17	MW-18	MW-19A	MW-10
Date Sampled	11/06/95	11/06/95	11/06/95	11/06/95
Date Analyzed	11/10/95	11/10/95	11/10/95	11/10/95
Dilution Factor	1.00	1.00	25.0	1.00

Analyte	Reporting Limit	Units	Concentration:			
Dichlorodifluoromethane	5.0	ug/L	< 5.0	< 5.0	< 120	< 5.0
Chloromethane	2.0	ug/L	< 2.0	< 2.0	< 50.	< 2.0
Vinyl Chloride	1.0	ug/L	< 1.0	< 1.0	< 25.	< 1.0
Bromomethane	2.0	ug/L	< 2.0	< 2.0	< 50.	< 2.0
Chloroethane	1.0	ug/L	< 1.0	< 1.0	< 25.	< 1.0
Trichlorofluoromethane	1.0	ug/L	< 1.0	< 1.0	< 25.	< 1.0
1,1-Dichloroethene	1.0	ug/L	< 1.0	< 1.0	< 25.	1.0
Methylene Chloride	1.0	ug/L	< 1.0	< 1.0	< 25.	< 1.0
trans-1,2-Dichloroethene	1.0	ug/L	< 1.0	< 1.0	< 25.	19.
1,1-Dichloroethane	1.0	ug/L	< 1.0	< 1.0	< 25.	1.4
cis-1,2-Dichloroethene	1.0	ug/L	1.1	1.8	110	41.
Chloroform	1.0	ug/L	< 1.0	< 1.0	< 25.	< 1.0
1,1,1-Trichloroethane	1.0	ug/L	< 1.0	1.2	< 25.	< 1.0
Carbon tetrachloride	1.0	ug/L	< 1.0	< 1.0	< 25.	< 1.0
1,2-Dichloroethane	1.0	ug/L	< 1.0	< 1.0	< 25.	< 1.0
Trichloroethene	1.0	ug/L	29.	45.	160	14.
1,2-Dichloropropane	1.0	ug/L	< 1.0	< 1.0	< 25.	< 1.0
Bromodichloromethane	1.0	ug/L	< 1.0	< 1.0	< 25.	< 1.0
2-Chloroethylvinyl ether	1.0	ug/L	< 1.0	< 1.0	< 25.	< 1.0
cis-1,3-Dichloropropene	1.0	ug/L	< 1.0	< 1.0	< 25.	< 1.0
trans-1,3-Dichloropropene	1.0	ug/L	< 1.0	< 1.0	< 25.	< 1.0
1,1,2-Trichloroethane	1.0	ug/L	< 1.0	< 1.0	< 25.	< 1.0
Tetrachloroethene	1.0	ug/L	13.	18.	1500	< 1.0
Dibromochloromethane	1.0	ug/L	< 1.0	< 1.0	< 25.	< 1.0
Chlorobenzene	1.0	ug/L	< 1.0	< 1.0	< 25.	< 1.0
Bromoform	2.0	ug/L	< 2.0	< 2.0	< 50.	< 2.0
1,1,2,2-Tetrachloroethane	1.0	ug/L	< 1.0	< 1.0	< 25.	< 1.0
1,3-Dichlorobenzene	1.0	ug/L	< 1.0	< 1.0	< 25.	< 1.0
1,4-Dichlorobenzene	1.0	ug/L	< 1.0	< 1.0	< 25.	< 1.0
1,2-Dichlorobenzene	1.0	ug/L	< 1.0	< 1.0	< 25.	< 1.0

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8010:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 1.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
Login Number: W5110155
Project ID (number): 5161.85
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/CA

Method: EPA 8010
Matrix: Aqueous

GTEL Sample Number	W5110155-09	--	--	--
Client ID	MW-2A	--	--	--
Date Sampled	11/06/95	--	--	--
Date Analyzed	11/09/95	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:			
Dichlorodifluoromethane	5.0	ug/L	< 5.0	--	--	--
Chloromethane	2.0	ug/L	< 2.0	--	--	--
Vinyl Chloride	1.0	ug/L	< 1.0	--	--	--
Bromomethane	2.0	ug/L	< 2.0	--	--	--
Chloroethane	1.0	ug/L	< 1.0	--	--	--
Trichlorofluoromethane	1.0	ug/L	< 1.0	--	--	--
1,1-Dichloroethene	1.0	ug/L	< 1.0	--	--	--
Methylene Chloride	1.0	ug/L	< 1.0	--	--	--
trans-1,2-Dichloroethene	1.0	ug/L	< 1.0	--	--	--
1,1-Dichloroethane	1.0	ug/L	< 1.0	--	--	--
cis-1,2-Dichloroethene	1.0	ug/L	< 1.0	--	--	--
Chloroform	1.0	ug/L	< 1.0	--	--	--
1,1,1-Trichloroethane	1.0	ug/L	< 1.0	--	--	--
Carbon tetrachloride	1.0	ug/L	< 1.0	--	--	--
1,2-Dichloroethane	1.0	ug/L	< 1.0	--	--	--
Trichloroethene	1.0	ug/L	< 1.0	--	--	--
1,2-Dichloropropane	1.0	ug/L	< 1.0	--	--	--
Bromodichloromethane	1.0	ug/L	< 1.0	--	--	--
2-Chloroethylvinyl ether	1.0	ug/L	< 1.0	--	--	--
cis-1,3-Dichloropropene	1.0	ug/L	< 1.0	--	--	--
trans-1,3-Dichloropropene	1.0	ug/L	< 1.0	--	--	--
1,1,2-Trichloroethane	1.0	ug/L	< 1.0	--	--	--
Tetrachloroethene	1.0	ug/L	< 1.0	--	--	--
Dibromochloromethane	1.0	ug/L	< 1.0	--	--	--
Chlorobenzene	1.0	ug/L	< 1.0	--	--	--
Bromoform	2.0	ug/L	< 2.0	--	--	--
1,1,2,2-Tetrachloroethane	1.0	ug/L	< 1.0	--	--	--
1,3-Dichlorobenzene	1.0	ug/L	< 1.0	--	--	--
1,4-Dichlorobenzene	1.0	ug/L	< 1.0	--	--	--
1,2-Dichlorobenzene	1.0	ug/L	< 1.0	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8010:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 1.

GTEL Client ID: GTR01CHV08
Login Number: W5110155
Project ID (number): 5161.85
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/CA

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8010
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	*	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments:

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W5110155 Volatile Organics
Project ID (number): 5161.85 Method: EPA 8010
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/CA Matrix: Aqueous

Surrogate Results

QC Batch No.	Reference	Sample ID	BFB ELCD	BFB PID
Method: EPA 8010		Acceptability Limits:	68-133%	82-117%
110995GC15-1	CV1109952015	Calibration Verifi	101.	94.6
110995GC15-2	BW11099515	Method Blank Water	100.	95.7
110995GC15-3	MS11015509	Matrix Spike	99.5	98.7
110995GC15-4	DP11015507	Duplicate	98.9	98.2
110995GC15-5	LW1109952015	Laboratory Control	102.	96.7
--	11015501	TB-LB	100.	94.6
--	11015502	MW-7	99.1	96.8
--	11015503	MW-13	101.	97.4
--	11015504	MW-15	100.	97.1
--	11015505	MW-17	97.4	98.1
--	11015506	MW-18	98.1	97.3
--	11015507	MW-19A	100.	98.1
--	11015508	MW-10	101.	98.2
--	11015509	MW-2A	100.	99.6

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

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W5110155 Volatile Organics
Project ID (number): 5161.85 Method: EPA 8010
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/CA Matrix: Aqueous

Method Blank Results

QC Batch No: 110995GC15-2
Date Analyzed: 09-NOV-95

Analyte	Method: EPA 8010 Concentration: ug/L
Dichlorodifluoromethane	< 5.00
Chloromethane	< 2.00
Vinyl chloride	< 1.00
Bromomethane	< 2.00
Chloroethane	< 1.00
Trichlorofluoromethane	< 1.00
1,1-Dichloroethene	< 1.00
Methylene chloride	< 1.00
trans-1,2-Dichloroethene	< 1.00
1,1-Dichloroethane	< 1.00
cis-1,2-Dichloroethene	< 1.00
Chloroform	< 1.00
1,1,1-Trichloroethane	< 1.00
Carbon tetrachloride	< 1.00
1,2-Dichloroethane	< 1.00
Trichloroethene	< 1.00
1,2-Dichloropropane	< 1.00
Bromodichloromethane	< 1.00
2-Chloroethyl vinyl ether	< 1.00
cis-1,3-Dichloropropene	< 1.00
trans-1,3-Dichloropropene	< 1.00
1,1,2-Trichloroethane	< 1.00
Tetrachloroethene	< 1.00
Dibromochloromethane	< 1.00
Chlorobenzene	< 1.00
Bromoform	< 2.00
1,1,2,2-Tetrachloroethane	< 1.00
1,3-Dichlorobenzene	< 1.00
1,4-Dichlorobenzene	< 1.00
1,2-Dichlorobenzene	< 1.00

Notes:

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W5110155
Project ID (number): 5161.85
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/CA

Volatile Organics
Method: EPA 8010
Matrix: Aqueous

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8010 Units:ug/L	QC Batch:110995GC15-1			
Dichlorodifluoromethane	20.0	29.5	148.	40-160%
Chloromethane	20.0	20.4	102.	59.5-140.5%
Vinyl chloride	20.0	19.5	97.5	68.5-131.5%
Bromomethane	20.0	21.2	106.	58.5-141.5%
Chloroethane	20.0	23.1	116.	77-123%
Trichlorofluoromethane	20.0	20.1	101.	66.5-133.5%
1,1-Dichloroethene	20.0	23.2	116.	63-137%
Methylene chloride	20.0	23.5	118.	77.5-122.5%
trans-1,2-Dichloroethene	20.0	21.5	108.	64-136%
1,1-Dichloroethane	20.0	20.7	104.	71.5-116%
cis-1,2-Dichloroethene	20.0	19.8	99.0	64-116%
Chloroform	20.0	19.6	98.0	75-125%
1,1,1-Trichloroethane	20.0	22.1	111.	71-129%
Carbon tetrachloride	20.0	21.6	108.	68.5-131.5%
1,2-Dichloroethane	20.0	22.7	114.	71.5-128.5%
Trichloroethene	20.0	21.5	108.	77-123%
1,2-Dichloropropane	20.0	21.9	110	74-126%
Bromodichloromethane	20.0	20.6	103.	76-124%
2-Chloroethyl vinyl ether	20.0	24.4	122	60-140%
cis-1,3-Dichloropropene	20.0	20.0	100.	64-136%
trans-1,3-Dichloropropene	20.0	21.2	106	64-136%
1,1,2-Trichloroethane	20.0	21.6	108.	78.5-121.5%
Tetrachloroethene	20.0	21.7	109	70-130%
Dibromochloromethane	20.0	20.4	102.	65.5-134.5%
Chlorobenzene	20.0	21.7	109	72-128%
Bromoform	20.0	17.0	85.0	73.5-126.5%
1,1,2,2-Tetrachloroethane	20.0	22.8	114	49-151%
1,3-Dichlorobenzene	20.0	19.5	97.5	49.5-150.5%
1,4-Dichlorobenzene	20.0	20.4	102	69.5-130.5%
1,2-Dichlorobenzene	20.0	19.0	95.0	70-130%

Notes:

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W5110155 Volatile Organics
Project ID (number): 5161.85 Method: EPA 8010
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/CA Matrix: Aqueous

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8010 Units:ug/L	QC Batch:110995GC15-5			
Dichlorodifluoromethane	20.0	30.2	151.	40-160%
Chloromethane	20.0	21.0	105.	10-193%
Vinyl chloride	20.0	16.3	81.5	28-163%
Bromomethane	20.0	15.9	79.5	10-144%
Chloroethane	20.0	23.0	115.	46-137%
Trichlorofluoromethane	20.0	17.8	89.0	21-156%
1,1-Dichloroethene	20.0	22.0	110.	28-167%
Methylene chloride	20.0	24.9	125.	25-162%
trans-1,2-Dichloroethene	20.0	22.9	115	38-155%
1,1-Dichloroethane	20.0	20.6	103.	47-132%
cis-1,2-Dichloroethene	20.0	19.3	96.5	38-155%
Chloroform	20.0	19.8	99.0	49-133%
1,1,1-Trichloroethane	20.0	22.7	114.	41-138%
Carbon tetrachloride	20.0	22.2	111.	43-143%
1,2-Dichloroethane	20.0	22.5	113.	51-147%
Trichloroethene	20.0	22.8	114.	35-146%
1,2-Dichloropropane	20.0	22.5	113.	44-156%
Bromodichloromethane	20.0	21.1	106.	42-172%
2-Chloroethyl vinyl ether	20.0	6.03	30.2	14-186%
cis-1,3-Dichloropropene	20.0	20.4	102.	22-178%
trans-1,3-Dichloropropene	20.0	20.5	103.	22-178%
1,1,2-Trichloroethane	20.0	22.4	112.	39-136%
Tetrachloroethene	20.0	22.5	113.	25-162%
Dibromochloromethane	20.0	19.8	99.0	24-191%
Chlorobenzene	20.0	22.6	113.	38-150%
Bromoform	20.0	16.3	81.5	13-159%
1,1,2,2-Tetrachloroethane	20.0	22.1	111.	10-184%
1,3-Dichlorobenzene	20.0	19.4	97.0	10-187%
1,4-Dichlorobenzene	20.0	19.5	97.5	42-143%
1,2-Dichlorobenzene	20.0	19.0	95.0	10-208%

Notes:

GTEL Client ID: GTR01CHV08
Login Number: W5110155
Project ID (number): 5161.85
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/CA

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8010
Matrix: Aqueous

Duplicate Sample Results

Analyte	Original Concentration	Duplicate Concentration	RPD, %	Acceptability Limits, %	
EPA 8010 Units: ug/L	QC Batch: 110995GC15-4	GTEL Sample ID: W5110155-07			Client ID: MW-19A
Dichlorodifluoromethane	< 125.	< 125.	NA	35.4	
Chloromethane	< 50.0	< 50.0	NA	24.2	
Vinyl chloride	< 25.0	< 25.0	NA	18.6	
Bromomethane	< 50.0	< 50.0	NA	24.8	
Chloroethane	< 25.0	< 25.0	NA	14.4	
Trichlorofluoromethane	< 25.0	< 25.0	NA	19.6	
1,1-Dichloroethene	< 25.0	< 25.0	NA	21.6	
Methylene chloride	< 25.0	< 25.0	NA	13.1	
trans-1,2-Dichloroethene	< 25.0	< 25.0	NA	20.9	
1,1-Dichloroethane	< 25.0	< 25.0	NA	10.5	
cis-1,2-Dichloroethene	114.	111.	2.67	20.9	
Chloroform	< 25.0	< 25.0	NA	14.7	
1,1,1-Trichloroethane	< 25.0	< 25.0	NA	16	
Carbon tetrachloride	< 25.0	< 25.0	NA	18.3	
1,2-Dichloroethane	< 25.0	< 25.0	NA	17	
Trichloroethene	156.	149.	4.59	13.7	
1,2-Dichloropropane	< 25.0	< 25.0	NA	17	
Bromodichloromethane	< 25.0	< 25.0	NA	13.1	
2-Chloroethyl vinyl ether	< 25.0	< 25.0	NA	27.1	
cis-1,3-Dichloropropene	< 25.0	< 25.0	NA	23.8	
trans-1,3-Dichloropropene	< 25.0	< 25.0	NA	23.8	
1,1,2-Trichloroethane	< 25.0	< 25.0	NA	12.8	
Tetrachloroethene	1480	1420	4.14	17.7	
Dibromochloromethane	< 25.0	< 25.0	NA	20.6	
Chlorobenzene	< 25.0	< 25.0	NA	16.4	
Bromoform	< 50.0	< 50.0	NA	15.4	
1,1,2,2-Tetrachloroethane	< 25.0	< 25.0	NA	30	
1,3-Dichlorobenzene	< 25.0	< 25.0	NA	29.7	
1,4-Dichlorobenzene	< 25.0	< 25.0	NA	18	
1,2-Dichlorobenzene	< 25.0	< 25.0	NA	18	

Notes:

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

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W5110155
Project ID (number): 5161.85
Project ID (name): CHEVRON/1001067/POWELL @ LANDGREN/EMERYVILLE/CA

Volatile Organics
Method: EPA 8010
Matrix: Aqueous

Matrix Spike(MS) Results

GTEL Sample ID:W5110155-09 MS ID:MS11015509
Analysis Date: 09-NOV-95 10-NOV-95

Units: ug/L Analyte	Sample Conc.	Spike Added	MS Conc.	MS % Rec.	Acceptability Limits %Rec.
Dichlorodifluoromethane	< 5.00(0.000)	23.0	45.6	198.*	40-160
Chloromethane	< 2.00(0.000)	23.0	29.8	130.	10-193
Vinyl chloride	< 1.00(0.000)	23.0	23.0	100.	28-163
Bromomethane	< 2.00(0.000)	23.0	22.9	99.6	10-144
Chloroethane	< 1.00(0.000)	23.0	32.9	143.*	46-137
Trichlorofluoromethane	< 1.00(0.000)	23.0	25.7	112.	21-156
1,1-Dichloroethene	< 1.00(0.000)	20.0	22.6	113.	28-167
Methylene chloride	< 1.00(0.0900)	20.0	23.6	118.	25-162
trans-1,2-Dichloroethene	< 1.00(0.000)	20.0	23.2	116.	38-155
1,1-Dichloroethane	< 1.00(0.000)	20.0	20.7	104.	47-132
cis-1,2-Dichloroethene	< 1.00(0.000)	20.0	19.0	95.0	38-155
Chloroform	< 1.00(0.000)	20.0	19.4	97.0	49-133
1,1,1-Trichloroethane	< 1.00(0.000)	20.0	22.4	112.	41-138
Carbon tetrachloride	< 1.00(0.000)	20.0	21.8	109.	43-143
1,2-Dichloroethane	< 1.00(0.000)	20.0	22.1	111.	51-147
Trichloroethene	< 1.00(0.000)	20.0	21.6	108.	35-146
1,2-Dichloropropane	< 1.00(0.000)	20.0	21.8	109.	44-156
Bromodichloromethane	< 1.00(0.000)	20.0	20.2	101.	42-172
2-Chloroethyl vinyl ether	< 1.00(0.000)	20.0	0.00	0.00*	14-186
cis-1,3-Dichloropropene	< 1.00(0.000)	20.0	19.5	97.5	22-178
trans-1,3-Dichloropropene	< 1.00(0.000)	20.0	20.0	100.	22-178
1,1,2-Trichloroethane	< 1.00(0.000)	20.0	21.8	109.	39-136
Tetrachloroethene	< 1.00(0.000)	20.0	21.4	107.	25-162
Dibromochloromethane	< 1.00(0.000)	20.0	19.2	96.0	24-191
Chlorobenzene	< 1.00(0.000)	20.0	21.9	110.	38-150
Bromoform	< 2.00(0.000)	20.0	15.6	78.0	13-159
1,1,2,2-Tetrachloroethane	< 1.00(0.000)	20.0	22.4	112.	10-184
1,3-Dichlorobenzene	< 1.00(0.000)	20.0	18.7	93.5	10-187
1,4-Dichlorobenzene	< 1.00(0.000)	20.0	18.6	93.0	42-143
1,2-Dichlorobenzene	< 1.00(0.150)	20.0	18.5	91.8	10-208

Notes:

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

110995GC15-3: Matrix spike results were outside the acceptibility limits for Dichlorodifluoromethane and Chloroethane. As these analytes were not present in any of the analyzed samples, the reported data is valid.

110995GC15-3: :2-Chloroethylvinyl ether decomposes in the presence of Hydrochloric Acid (used as a preservative).