Chevron

ENVIRONMENTAL PROTECTION

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September 26, 1996

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

~~Marketing - Northwest Region~~
Phone 510 842 9500

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

Re: Former Chevron Service Station # 9-1026
3701 Broadway
Oakland, California

Dear Ms. Hugo:

Enclosed is a copy of the First Quarter Groundwater Monitoring report for 1996 that was prepared by our consultant Gettler-Ryan Inc. for the above noted site. Apologize for the delay in submittal of this report, any future reports will be submitted in a timely manner. Monitoring wells were sampled and analyzed for TPH-g, BTEX and MtBE. Concentrations of benzene constituents were below method detection levels in monitoring wells B-1, E. EA-1, EA-2, and F. Separate phase hydrocarbons (SPH) were detected in monitoring wells B, B-2, and B-3. All three wells were bailed and the SPH was removed from site and transported to Chevron's Richmond facility for recycling. Depth to groundwater varied from 9.02 feet to 13.88 feet below grade with a direction of flow to the southwest.

Monitoring well B-4 continues to be impacted by BTEX, TPH-g and MtBE constituents, which may indicate the presence of a source located upgradient of Chevron's site. Chevron's portion of the plume appears to stable and contained.

Chevron implemented the sampling program outlined in the Comprehensive Site Evaluation and Proposed Future Action Plan, dated December 20, 1994. Therefore, no monitoring event occurred in the Second Quarter, but will occur in the Third Quarter, with monitoring wells B, B-1, B-2, B-3, and B-4 to be sampled.

If you have any questions or comments, call me at (510) 842-9136. For your information, Mr. Mark Miller has been transferred to another position within Chevron and I have taken over this project from him.

Sincerely
CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

cc. Ms. Bette Owen, Chevron

Mr. W. Bruce Bercovich
Kay & Merkel
100 The Embarcadero, 3rd Floor
San Francisco, CA 94105

GETTLER-RYAN INC.

April 26, 1996 Job #5127.80

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

Re: Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

Dear Mr. Briggs:

This report documents the semi-annual groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On March 22, 1996, field personnel were on-site to monitor nine wells (B, B-1 through B-4, E, EA-1, EA-2, and F), and sample six wells (B-1, B-4, E, EA-1, EA-2 and F) at the Former Chevron Service Station #9-1026 located at 3701 Broadway in Oakland, California.

Static groundwater levels were measured on March 22, 1996. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were present in three site wells (B, B-2 and B-3). Static water level data and groundwater elevations are presented in Table 1. Separate-phase hydrocarbon removal data is presented in Table 2. 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 Table 1. The chain of custody document and laboratory analytical reports are attached.

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

Sincerely,

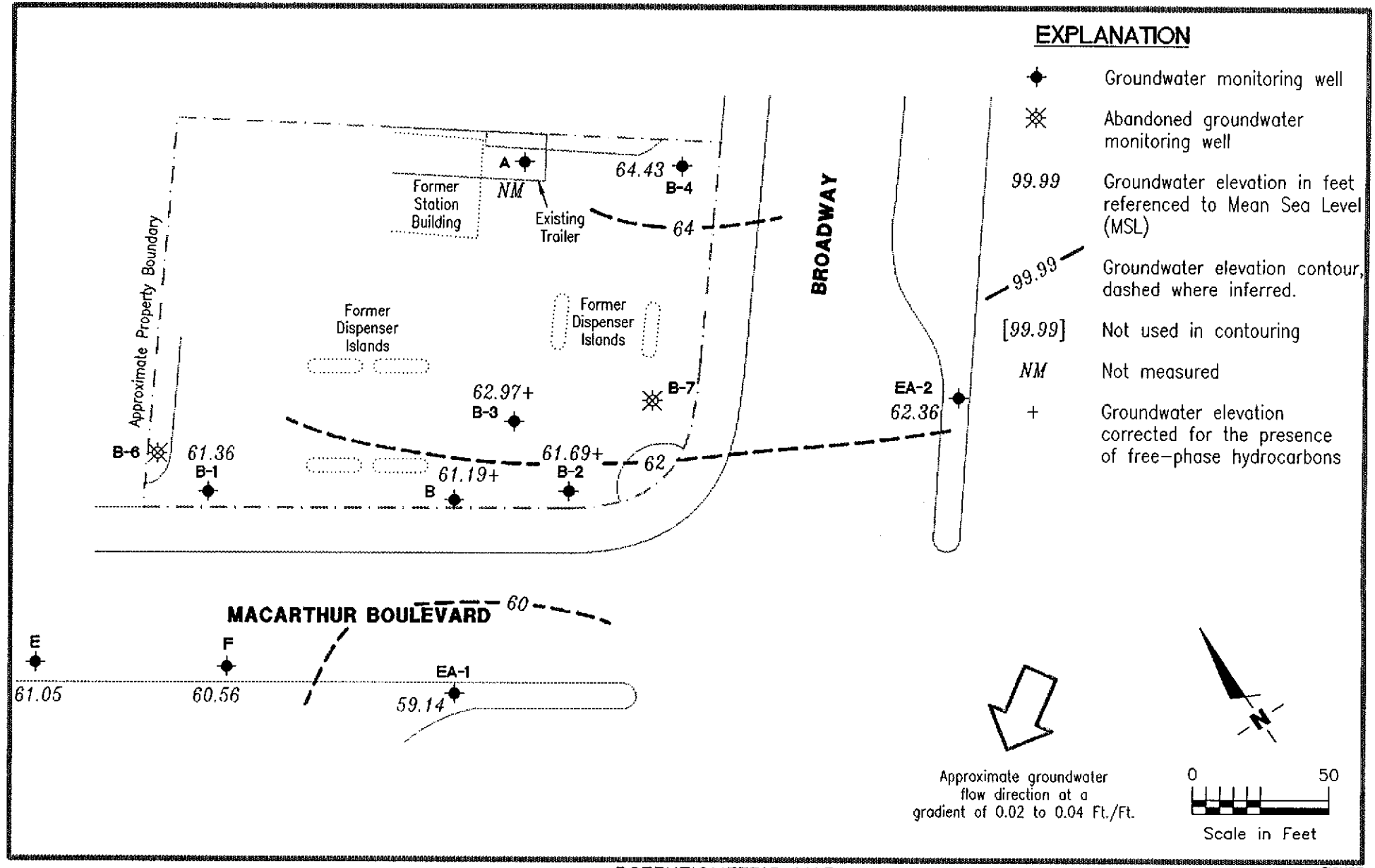
Deanna L. Harding
Project Coordinator

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

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

DLH/PLS/dlh
5127.QML

Figure 1: Potentiometric Map
Table 1: Water Level Data and Groundwater Analytical Results
Table 2: Separate-phase Hydrocarbon Removal Data
Attachments: Standard Operating Procedure - Quarterly Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



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

POTENTIOMETRIC MAP
Former Chevron Service Station No. 9-1026
3701 Broadway
Oakland, California

FIGURE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
5127		March 22, 1996	

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE
					<----------ppb---------->					
A	5/9/89	13.92	61.36	0	11,000	260	<2	94	230	---
	8/9/89	15.62	59.66	0	12,000	370	<1.5	100	240	---
75.28	11/9/89	15.95	59.33	0	16,000	690	10	180	350	---
	2/8/90	14.73	60.55	0	14,000	600	7	120	270	---
	5/10/90	15.48	59.80	0	16,000	840	4.8	140	340	---
	8/9/90	15.66	59.62	0	17,000	510	40	170	280	---
	11/13/90	16.48	58.80	0	9,000	570	3.1	86	170	---
	3/27/91	---	---	---	8,000	660	<5	110	250	---
	4/5/91	13.22	62.06	0	---	---	---	---	---	---
	6/19/91	15.37	59.91	0	8,900	740	<3	120	280	---
	8/21/91	15.99	59.29	0	6,800	620	23	85	200	---
	11/8/91	16.15	59.13	0	4,000	640	<5	77	160	---
	2/13/92	14.58	60.70	0	8,000	860	<5	120	390	---
	5/1/92	14.26	61.02	0	13,000	870	19	220	780	---
75.29	11/18/92	16.38	58.91	0	12,000	1,500	83	360	530	---
	3/19/93	12.16	63.13	0	14,000	820	6.1	180	420	---
	6/10/93	14.25	61.04	0	9,000	700	13	170	310	---
	9/8/93	---	---	---	---	---	---	---	---	---
	12/21/93	---	---	---	---	---	---	---	---	---
	3/9/94	13.34	61.95	0	9,600	860	21	200	390	---
	9/21/94[2]	---	---	---	---	---	---	---	---	---
	12/20/94[2]	---	---	---	---	---	---	---	---	---
	3/28/95[2]	---	---	---	---	---	---	---	---	---
	6/22/95[2]	---	---	---	---	---	---	---	---	---
	9/21/95[7]	---	---	---	---	---	---	---	---	---
	3/22/96[7]	---	---	---	---	---	---	---	---	---
B	5/9/89	13.97	59.58	0.20	---	---	---	---	---	---
	8/9/89	15.69	57.86	0.20	---	---	---	---	---	---
73.39	11/9/89	15.29	58.16	0.08	---	---	---	---	---	---
	2/8/90	14.46	58.93	0	---	---	---	---	---	---
	5/10/90	14.07	58.32	0	---	---	---	---	---	---
	8/9/90	15.12	58.27	0	---	---	---	---	---	---
	11/13/90	15.76	57.63	0	---	---	---	---	---	---
	4/5/91	13.38	60.01	0	---	---	---	---	---	---
	6/19/91	15.14	58.25	0	26,000	7,100	370	430	1,000	---
	8/21/91	15.58	57.81	0	16,000	4,900	270	390	640	---
	11/8/91	15.71	57.68	0	11,000	2,400	48	280	160	---
	2/13/92	14.66	58.73	0	6,800	2,400	60	220	140	---
	5/1/92	14.50	58.89	Sheen	16,000	6,000	180	370	460	---
	11/18/92	15.60	57.79	0	28,000	2,200	150	920	4,300	---
	3/19/93	13.29	60.12	0.03	---	---	---	---	---	---

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE
					<———		ppb			———>
B (cont)	6/10/93	14.30	59.11	0.03	---	---	---	---	---	---
	9/8/93	15.33	58.25	0.24	---	---	---	---	---	---
	12/21/93	14.73	58.76	0.12	---	---	---	---	---	---
	3/9/94	14.07	59.35	0.04	---	---	---	---	---	---
	9/21/94	15.50	57.91[3]	0.02[4]	---	---	---	---	---	---
	12/20/94	13.75	59.88[5]	0.12	---	---	---	---	---	---
	3/28/95[2]	---	---	---	---	---	---	---	---	---
	6/22/95	14.56	58.92[5]	0.11	---	---	---	---	---	---
	9/21/95	15.88	58.41[3]	1.12	---	---	---	---	---	---
	3/22/96	**13.02**	**61.19[5]**	**1.02**	---	---	---	---	---	---
B-1	5/9/89	12.58	59.19	0	16,000	2,300	260	81	740	---
	8/9/89	14.09	57.68	0	12,000	2,600	340	100	870	---
71.77	11/9/89	14.06	57.71	0	17,000	340	140	110	760	---
	2/8/90	12.65	59.12	0	5,500	70	19	17	150	---
	5/10/90	13.62	58.15	0	18,000	770	110	73	600	---
	8/9/90	13.87	57.90	0	82,000	750	66	95	980	---
	11/13/90	14.38	57.39	0	43,000	1,300	120	74	760	---
	3/27/91	---	---	---	18,000	580	92	94	770	---
	4/5/91	11.73	60.04	0	---	---	---	---	---	---
	6/19/91	13.56	58.21	0	21,000	910	56	96	810	---
	8/21/91	13.90	57.87	0	50,000	2,400	610	300	1,800	---
	11/8/91	14.05	57.72	0	540,000	3,600	1,500	1,900	5,900	---
	2/13/92	12.68	59.09	0	20,000	500	100	150	920	---
	5/1/92	12.92	58.85	Sheen	27,000	2,800	200	310	1,900	---
72.30	11/18/92	14.30	58.00	0	300	9.7	3.4	2.3	21	---
	3/19/93	12.28	60.02	0	130	23	.9	<0.5	5.6	---
	6/10/93	13.04	59.26	0	170	21	1.1	.8	6.6	---
	9/8/93	13.88	58.46	0.05	---	---	---	---	---	---
	12/21/93	13.53	58.77	0	<50	6.7	.5	<0.5	1.2	---
	3/9/94	12.65	59.65	0	1,300	520	8.8	2.4	53	---
	9/21/94	14.40	57.90	0	390	130	2.7	2.4	7.7	---
	12/20/94	12.35	59.95	0	1,600	520	9.9	8.9	34	---
	3/28/95	10.76	61.54	0	160	38	2.1	1.4	5.4	---
	6/22/95	12.60	59.70	0	340	73	3.1	2.4	7.5	---
	9/21/95	13.65	58.65	0	140	19	1.0	1.2	6.1	---
	3/22/96	**10.94**	**61.36**	**0**	**200**	**<0.5**	**0.6**	**2.1**	**2.2**	**<5.0**

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE
					<---ppb--->					
B-2	5/9/89	14.58	59.93	0	170,000	30,000	8,400	2,300	12,000	—
	8/9/89	16.06	58.45	0	60,000	29,000	8,700	2,400	12,000	—
74.51	11/9/89	16.95	57.56	0	110,000	32,000	5,500	2,800	12,000	—
	2/8/90	15.56	58.95	0	67,000	28,000	5,900	2,300	11,000	---
	5/10/90	15.94	58.57	0	69,000	24,000	4,800	2,000	11,000	---
	8/9/90	15.97	58.54	0	100,000	33,000	4,000	2,100	12,000	---
	11/13/90	16.70	57.81	0	110,000	33,000	4,300	2,900	13,000	---
	3/27/91	—	—	—	160,000	26,000	3,200	2,600	15,000	---
	4/5/91	14.20	60.31	0	---	---	---	—	---	---
	6/19/91	15.83	58.68	0	100,000	22,000	2,500	2,000	11,000	---
	8/21/91	16.31	58.20	0	80,000	28,000	2,800	2,400	12,000	---
	11/8/91	16.60	57.91	0	94,000	29,000	1,900	2,200	11,000	—
	2/13/92	15.93	58.58	0	280,000	34,000	2,500	4,600	23,000	—
	5/1/92	14.94	59.57	Sheen	29,000	1,700	300	1,100	4,300	—
74.52	11/18/92	16.71	57.81	0	26,000	11,000	170	870	950	---
	3/19/93	14.06	60.46	0	110,000	28,000	1,200	2,200	12,000	---
	6/10/93	14.88	59.64	0	140,000	15,000	930	1,900	8,800	—
	9/8/93	16.03	58.52	0.04	---	—	---	---	---	—
	12/21/93	15.61	58.91	0	980,000	21,000	30,000	9,100	71,000	---
	3/9/94	14.53	59.99	Sheen	110,000	23,000	920	1,300	7,800	---
	9/21/94[3]	---	---	---	---	—	---	---	---	—
	12/20/94	14.65	59.86	0	70,000	25,000	710	920	5,300	—
	3/28/95	12.30	62.22	0	76,000	20,000	920	1,200	5,200	---
	6/22/95	14.22	60.30	0	89,000	21,000	3,8000	1,500	6,800	—
	9/21/95	15.80	58.72	0	84,000	24,000	2,900	1,800	9,800	—
	3/22/96	12.85	61.69[3]	0.02	---	—	---	—	---	---
B-3	5/9/89	14.02	60.01	0	70,000	12,000	9,500	400	8,900	—
	8/9/89	15.38	58.74	0	—	—	---	---	—	---
74.12	11/9/89	15.55	58.61	0.05	—	—	---	---	—	---
	2/8/90	14.68	59.44	<0.01	---	—	---	---	---	---
	5/10/90	15.15	58.99	0.02	—	—	---	---	—	---
	8/9/90	15.27	58.85	<0.01	---	—	—	---	---	—
	11/13/90	16.04	58.13	0.06	---	—	---	---	—	---
	4/5/91	13.30	60.82	<0.01	---	—	—	---	---	—
	6/19/91	15.16	58.96	0	260,000	20,000	9,000	2,200	16,000	---
	8/21/91	15.61	58.51	0	70,000	28,000	11,000	1,800	11,000	—
	11/8/91	15.77	58.35	0	150,000	29,000	9,700	2,200	13,000	—
	2/13/92	14.88	59.24	0	100,000	27,000	9,906	2,000	11,000	---
	5/1/92	14.20	59.93	0.01	---	—	—	—	—	—

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE
					<———		ppb			———>
B-3/74.13	11/18/92	15.68	58.47	0.03	---	---	---	---	---	---
(cont)	3/19/93	13.75	61.24	1.08	---	---	---	---	---	---
	6/10/93	14.79	60.04	0.87	---	---	---	---	---	---
	9/8/93	15.38	58.81	0.08	---	---	---	---	---	---
	12/21/93	14.74	59.39	0	1,100,000	18,000	29,000	8,900	59,000	---
	3/9/94	13.53	60.60	0	130,000	11,000	20,000	1,700	15,000	---
	9/21/94	15.70	58.45[3]	0.02[4]	---	---	---	---	---	---
	12/20/94	13.48	60.67[3]	0.03	---	---	---	---	---	---
	3/28/95	---	---	1.54	---	---	---	---	---	---
	6/22/95	14.25	60.86[3]	1.23	---	---	---	---	---	---
	9/21/95	15.25	59.12[3]	0.30	---	---	---	---	---	---
	3/22/96	**11.46**	**62.97[3]**	**0.37**	---	---	---	---	---	---
B-4	5/9/89	14.93	61.50	0	3,600	840	34	120	200	---
	8/9/89	16.65	59.78	0	<500	4,200	130	370	260	---
76.43	11/9/89	---	---	---	5,000	4,200	83	400	250	---
	2/8/90	16.99	59.44	0	14,000	6,000	70	530	300	---
	5/10/90	16.05	60.38	0	12,000	5,400	130	460	320	---
	8/9/90	16.49	59.94	0	16,000	7,400	120	530	350	---
	11/13/90	16.64	59.79	0	21,000	7,000	100	550	320	---
	3/27/91	17.42	59.01	0	17,000	8,500	120	500	300	---
	4/5/91	14.66	61.77	0	14,000	7,700	75	610	210	---
	6/19/91	16.48	59.95	0	16,000	7,800	110	550	340	---
	8/21/91	17.00	59.43	0	18,000	11,000	110	450	340	---
	11/8/91	17.38	59.05	0	18,000	6,800	98	500	620	---
	2/13/92	16.42	60.01	0	15,000	9,100	86	570	350	---
	5/1/92	15.50	60.93	0	36,000	16,000	180	990	690	---
	3/19/93	14.11	62.32	0	26,000	15,000	150	900	790	---
	6/10/93	15.44	60.99	0	35,000	14,000	180	940	590	---
	9/8/93	16.65	59.78	0	34,000	15,000	170	1,100	870	---
	12/21/93	16.45	59.98	0	30,000	12,000	74	610	340	---
	3/9/94	14.88	61.55	0	37,000	15,000	140	1,000	580	---
	9/21/94	17.14	59.29	0	32,000	14,000	110	660	190	---
	12/20/94	14.99	61.44	0	23,000	8,400	97	640	530	---
	3/28/95	11.33	65.10	0	27,000	9,900	120	880	540	---
	6/22/95	14.59	61.84	0	33,000	12,000	84	650	150	---
	9/21/95	16.19	60.24	0	20,000[6]	12,000	72	540	68	---
	3/22/96	**12.00**	**64.43**	**0**	**29,000**	**10,000**	**72**	**560**	**170**	**400**

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE
					<----------ppb---------->					
B-6	5/9/89	12.11	60.55	0	26,000	120	110	250	1,300	---
	8/9/89	14.72	57.94	0	19,000	470	150	440	1,400	---
72.66	11/9/89	13.85	58.81	0	13,000	70	36	36	440	---
	2/8/90	7.73	64.93	0	2,900	16	5	10	58	---
	5/10/90	—	—	—	—	—	—	—	—	—
	8/9/90	14.51	58.15	0	14,000	55	3	130	500	---
	11/13/90	14.86	57.80	0	---	---	---	---	---	---
	4/5/91	10.43	62.23	0	---	---	---	---	---	---
	6/19/91[1]	---	---	---	---	---	---	---	---	---
B-7	5/9/89	14.73	60.67	0	210,000	13,000	19,000	2,000	20,000	---
	8/9/89	16.36	59.04	0	672,000	8,7000	17,000	2,700	30,000	---
75.40	11/9/89	16.64	58.76	0	150,000	7,000	12,000	1,800	16,000	---
	2/8/90	15.69	59.71	0	41,000	2,500	6,900	1,100	11,000	---
	5/10/90	---	---	---	---	---	---	---	---	---
	8/9/90	16.31	59.09	0	50,000	1,100	3,900	640	7,200	---
	11/13/90	17.09	58.31	0	---	---	---	---	---	---
	4/5/91	14.36	61.04	0	---	—	—	—	—	—
	6/19/91[1]	—	—	—	---	—	—	—	—	—
E	11/18/92	12.20	57.87	0	280	2.7	2.4	3	12	---
70.07	3/19/93	9.97	60.10	0	<50	<0.5	<0.5	<0.5	<1.5	---
	6/10/93	10.98	59.09	0	<50	<0.5	<0.5	<0.5	<1.5	---
	9/8/93	11.80	58.29	0.03	---	—	—	—	—	---
	12/21/93	11.25	58.82	0	<50	<0.5	<0.5	<0.5	<0.5	---
	3/9/94	10.67	59.40	0	<50	<0.5	0.7	<0.5	0.7	---
	9/21/94	12.29	57.78	0	<50	2.5	<0.5	1.0	<0.5	---
	12/20/94	15.53	54.54	0	<50	0.5	<0.5	<0.5	<0.5	---
	3/28/95	8.45	61.62	0	<50	<0.5	<0.5	<0.5	<0.5	---
	6/22/95	10.57	59.50	0	<50	<0.5	<0.5	<0.5	<0.5	—
	9/21/95	11.59	58.48	0	<50	<0.5	<0.5	<0.5	<0.5	---
	3/22/96	**9.02**	**61.05**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
F	5/9/89	18.70	53.31	0	<500	<0.5	<0.5	0.6	1	---
	8/9/89	19.03	52.98	0	—	—	—	—	—	—
72.01	11/9/89	19.02	52.99	0	---	---	---	---	---	---
	2/8/90	18.70	53.31	0	<50	0.4	<0.3	0.3	<0.6	—
	5/10/90	18.98	53.03	0	---	---	---	---	---	---

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE
					<		ppb			>
F	8/9/90	18.95	53.06	0	---	---	---	---	---	---
(cont)	11/13/90	19.10	52.91	0	---	---	---	---	---	---
	3/27/91	---	---	---	64	<0.5	<0.5	<0.5	1	---
	6/19/91	18.95	53.06	0	---	---	---	---	---	---
	8/21/91	>19.94	<52.07	0	---	---	---	---	---	---
	11/8/91	>19.94	<52.07	0	---	---	---	---	---	---
	2/13/92	18.60	53.41	0	<50	<0.5	<0.5	<0.5	<0.5	---
	5/1/92	Dry	---	---	---	---	---	---	---	---
71.72	11/18/92	14.85	56.87	0	<50	<0.5	<0.5	<0.5	<0.5	---
	3/19/93	14.25	57.47	0	<50	<0.5	<0.5	<0.5	<1.5	---
	6/10/93	13.92	57.80	0	<50	<0.5	<0.5	<0.5	<1.5	---
	9/8/93	14.80	56.95	0.04	---	---	---	---	---	---
	12/21/93	13.31	58.41	0	<50	<0.5	<0.5	<0.5	<0.5	---
	3/9/94	12.99	58.73	0	<50	<0.5	<0.5	<0.5	<0.5	---
	9/21/94	16.30	55.42	0	<50	<0.5	<0.5	<0.5	<0.5	---
	12/20/94	12.57	59.15	0	<50	<0.5	<0.5	<0.5	<0.5	---
	3/28/95	8.95	62.77	0	<50	<0.5	<0.5	<0.5	<0.5	---
	6/22/95	13.77	57.95	0	<50	<0.5	<0.5	<0.5	<0.5	---
	9/21/95	13.45	58.27	0	<50	<0.5	<0.5	<0.5	<0.5	---
	3/22/96	**11.16**	**60.56**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
EA-1	5/9/89	14.56	59.38	0	<500	<0.5	<0.5	<0.5	<0.5	---
	8/9/89	16.09	57.85	0	<500	<0.5	<0.5	<0.5	<0.5	---
73.94	11/9/89	15.84	58.10	0	<500	<0.5	<0.5	<0.5	<0.5	---
	2/8/90	15.05	58.89	0	<50	<0.3	<0.3	<0.3	<0.6	---
	5/10/90	15.65	58.29	0	<50	1	0.3	<0.3	<0.6	---
	8/9/90	15.67	58.27	0	<50	<0.3	<0.3	<0.3	<0.6	---
	11/13/90	16.32	57.62	0	<50	<0.4	<0.3	<0.3	<0.4	---
	3/27/91	---	---	---	<50	0.7	0.5	<0.5	<0.5	---
	4/5/91	14.03	59.91	0	---	---	---	---	---	---
	6/19/91	15.56	58.38	0	<50	<0.5	<0.5	<0.5	<0.5	---
	8/21/91	15.99	57.95	0	<50	<0.4	<0.3	<0.3	<0.4	---
	11/08/91	16.13	57.81	0	<50	<0.5	<0.5	<0.5	<0.5	---
	2/13/92	15.10	58.84	0	<50	<0.5	<0.5	<0.5	<0.5	---
	5/1/92	18.80	55.14	0	<50	2.7	<0.5	<0.5	<0.5	---
71.85	11/18/92	15.97	55.88	0	<10	<0.3	<0.3	<0.3	<0.5	---
	3/19/93	13.66	58.19	0	<50	<0.5	<0.5	<0.5	<1.5	---
	6/10/93	14.71	57.14	0	<50	<0.5	<0.5	<0.5	<1.5	---
	9/8/93	15.58	56.33	0.08	---	---	---	---	---	---
	12/21/93	15.02	56.83	0	<50	<0.5	<0.5	<0.5	<0.5	---

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE
					<----------ppb---------->					
EA-1	3/9/94	14.38	57.47	0	<50	<0.5	1.0	<0.5	<0.5	---
(cont)	9/21/94	16.12	55.73	0	<50	<0.5	<0.5	<0.5	<0.5	---
	12/20/94	14.05	57.80	0	<50	<0.5	<0.5	<0.5	<0.5	---
	3/28/95	12.05	59.80	0	<50	<0.5	<0.5	<0.5	<0.5	---
	6/22/95	14.35	57.50	0	<50	2.0	<0.5	<0.5	<0.5	---
	9/21/95	15.36	56.49	0	<50	<0.5	<0.5	<0.5	<0.5	---
	3/22/96	**12.71**	**59.14**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
EA-2	5/9/89	15.95	59.29	0	760	<0.5	<0.5	1.1	<0.5	---
	8/9/89	17.45	57.79	0	<500	<0.5	<0.5	<0.5	<0.5	---
75.24	11/9/89	17.41	57.83	0	<500	<0.5	1	<0.5	<0.5	---
	2/8/90	16.57	58.67	0	190	<0.3	<0.3	<0.3	<0.6	---
	5/10/90	17.12	58.12	0	<50	<0.3	<0.3	<0.3	<0.6	---
	8/9/90	17.20	58.04	0	120	<0.3	<0.3	<0.3	<0.6	---
	11/13/90	17.88	57.36	0	160	<0.4	1	<0.3	<0.4	---
	3/27/91	---	---	---	110	<0.5	<0.5	<0.5	<0.5	---
	4/5/91	15.54	59.70	0	---	---	---	---	---	---
	6/19/91	17.07	58.17	0	<50	<0.5	<0.5	<0.5	<0.5	---
	8/21/91	17.46	57.78	0	70	0.8	1.4	<0.3	<0.4	---
	11/8/91	17.58	57.66	0	<50	<0.5	0.7	<0.5	<0.5	---
	2/13/92	16.69	58.55	0	<50	<0.5	<0.5	<0.5	<0.5	---
	5/1/92	16.16	59.08	0	340	<0.5	2.6	0.7	<0.5	---
76.24	11/18/92	17.61	58.63	0	450	<0.5	3.3	<0.5	0.8	---
	3/19/93	15.00	61.24	0	450	<0.5	2.3	0.6	<1.5	---
	6/10/93	16.08	60.16	0	250	<0.5	1.3	<0.5	<1.5	---
	9/8/93	17.07	59.17	0	<50	<0.5	<0.5	<0.5	<1.5	---
	12/21/93	16.60	59.64	0	170	<0.5	1.3	<0.5	<0.5	---
	3/9/94	15.83	60.41	0	200	1.8	1.4	<0.5	<0.5	---
	9/21/94	17.60	58.64	0	<50	<0.5	<0.5	<0.5	<0.5	---
	12/20/94	15.53	60.71	0	950	31	15	1.7	<0.5	---
	3/28/95	13.28	62.96	0	71	2.0	0.6	<0.5	<0.5	---
	6/22/95	15.62	60.62	0	300	<0.5	3.7	<0.5	0.6	---
	9/21/95	16.78	59.46	0	170	<0.5	<0.5	<0.5	<0.5	---
	3/22/96	**13.88**	**62.36**	**0**	**90**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
Trip Blank	5/9/89	---	---	---	<500	<0.5	<0.5	<0.5	<0.5	---
TBLB	8/9/89	---	---	---	<500	<0.5	<0.5	<0.5	<0.5	---
	11/9/89	---	---	---	<500	<0.5	<0.5	<0.5	<0.5	---
	2/8/90	---	---	---	<50	<0.3	<0.3	<0.3	<0.6	---
	5/10/90	---	---	---	<50	<0.3	<0.3	<0.3	<0.6	---

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE
					<———		ppb			———>
TBLB (cont)	8/9/90	---	---	---	<50	<0.3	<0.3	<0.3	<0.6	—
	11/13/90	---	---	---	<50	<0.4	<0.3	<0.3	<0.4	---
	3/27/91	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	6/19/91	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	8/21/91	---	---	---	<50	<0.4	<0.3	<0.3	<0.4	—
	11/8/91	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	2/13/92	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	—
	5/1/92	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	11/18/92	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	3/19/93	---	---	---	<50	<0.5	<0.5	<0.5	<1.5	---
	6/10/93	---	---	---	<50	<0.5	<0.5	<0.5	<1.5	---
	9/8/93	---	---	---	<50	<0.5	<0.5	<0.5	<1.5	---
	12/21/93	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	3/9/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	—
	9/21/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	12/20/94	---	---	—	<50	<0.5	<0.5	<0.5	<0.5	---
	3/28/95	---	---	—	<50	<0.5	<0.5	<0.5	<0.5	---
	6/22/95	---	---	—	<50	<0.5	<0.5	<0.5	<0.5	---
	9/21/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	3/22/96	---	---	---	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California (continued)

EXPLANATION:

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

ANALYTICAL METHODS

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

NOTES:

Analytical results and groundwater data prior to 1995 were compiled from the quarterly groundwater monitoring reports prepared for Chevron by Sierra Environmental Services.

Analytical methods prior to September 21, 1994 are assumed to be 8015/8020.

* Product thickness measurements on and after September 21, 1994 were measured using an MMC flexi-dip interface probe.

[1] Well abandoned. Exact date unknown.
[2] Well inaccessible on this date.
[3] GWE corrected for the presence of free-phase hydrocarbons using: GWE = [(TOC-DTW)+(0.8)(Product Thickness)]. 0.8 is the assumed specific gravity of free-phase hydrocarbons.
[4] Approximate thickness; equipment not functioning properly.
[5] Well not located this event.
[6] Laboratory report indicates data obtained from multiple dilutions. Dilution factor noted represents the dilution used for majority of results.
[7] Well inaccessible due to office trailer positioned over well.

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Table 2. Separate-phase Hydrocarbon Thickness and Product Removal -
Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California

WELL ID	DATE	PRODUCT THICKNESS (ft)	AMOUNT BAILED (gals - prod & water)
B	6/22/95	0.11	1.0
	9/21/95	1.12	2.0
	3/22/96	1.02	2.0
B-2	3/22/96	0.02	0.25
B-3	3/28/95	1.54	2.0
	6/22/95	1.23	0.5
	9/21/95	0.30	0.5
	3/22/96	0.37	0.25

5127.pt

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: F. Cline & G. Sanchez
DATE: 3-22-96

ADDRESS: 3701 Broadway
JOB #: 5127.85

CITY: Oakland
SS#: 9-1026

Well ID: EA-1
Well Condition: okay

Well Location Description:

Well Diameter: 4" in
Hydrocarbon Thickness: 0

Total Depth: 27.0 ft
Depth to Liquid: 12.71 ft

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

# of casing Volume: 3X 14.29 x 0.66 x (VF) 9.4 = #Estimated purge Volume: 28.3 gal.

Purge Equipment: Suction
Sampling Equipment: Disposable Bailer

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

Starting Time: 1142
Sampling Time: 1154

Purging Flow Rate: 3.2 gpm.

Time	pH	Conductivity	Temperature	Volume
1145	6.61	473	20.3	9.6
1148	6.64	478	20.3	19.2
1151	6.67	480	20.4	28.8
1154	6.66	488	20.3	29.0

Weather Conditions: Cloudy cool Breezy
Water Color: Clear
Odor: Non
Sediment Description: Na

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
EA-1	3x40ml	Y	HCl	GTEL	Gas BTEX & MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline + G. Sanchez | DATE: 3-22-96

ADDRESS: 3701 Broadway | JOB #: 5127.35

CITY: Oakland | SS#: 9-1026

Well ID: EA-2 | Well Condition: Okay

Well Location Description:

Well Diameter: 4 in | Hydrocarbon Thickness: 6

Total Depth: 30.0 ft

Depth to Liquid: 13.88 ft

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

# of casing Volume: 3X 16.12 x 0.66 x(VF) 10.6 #Estimated purge Volume: 32 gal.

Purge Equipment: Suction | Sampling Equipment: Disposable Bailer

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

Starting Time: 1110 | Purging Flow Rate: 36 gpm.

Sampling Time: 1122

Time	pH	Conductivity	Temperature	Volume
1113	6.86	384	20.4	10.8
1116	6.88	396	20.4	21.6
1119	6.91	416	20.4	32.4
1122	6.90	410	20.3	33.0

Weather Conditions: Partly cloud Breezy

Water Color: Clear | Odor: No

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
EA-2	3x40-ml	Y	HCl	GTEL	Gas. BTEX + MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline & G. Sanchez
DATE: 3-22-96

ADDRESS: 3701 Broadway
JOB #: 5127.85

CITY: Oakland
SS#: 9-1026

Well ID: B
Well Condition: OK

Well Location Description:

Well Diameter: in
Hydrocarbon Thickness: 1.02

Total Depth: ft

Depth to Liquid: 13.02 ft

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

# of casing Volume: x x(VF) = #Estimated purge Volume: gal.

Purge Equipment:
Sampling Equipment: Disposable Bailer

Did well dewater:
If yes, Time: Volume:

Starting Time:
Sampling Time:

Purging Flow Rate: gpm.

Time	pH	Conductivity	Temperature	Volume
Not sampled - ~~Bad~~ Product in well				

Weather Conditions:
Water Color:
Odor:
Sediment Description:

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
	3X40-ml	Y	HCl	GTEL	Gas, BTEX & MTBE

Comments: Bailed 1/2 gal (product)

WELL SAMPLING FIELD DATA SHEET

SAMPLER F. Cline + G. Sanchez DATE 3-22-96

ADDRESS 3701 Broadway JOB # 5127.85

CITY Oakland SS# 9-1026

Well ID B-1 Well Condition OK

Well Location Description

Well Diameter 4 in Hydrocarbon Thickness 0

Total Depth 33.0 ft

Depth to Liquid 10.74 ft

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

3 # of casing Volume 22.06 x .66 x(VF) 14.6 #Estimated purge Volume 43.7 gal.

Purge Equipment Stack Pump Sampling Equipment Disposable Bailer

Did well dewater — If yes, Time — Volume

Starting Time 1205 Purging Flow Rate 2.5 gpm.

Sampling Time 1228

Time	pH	Conductivity	Temperature	Volume
1211	6.41	1042	20.3	15 gal
1217	6.37	1083	20.7	30 gal
1223	6.35	1113	20.9	45 gal
1228	6.35	1115	20.9	46 gal

Weather Conditions pt cloudy

Water Color: clear Odor: none

Sediment Description none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
B-1	3x40ml	Y	HCl	GTEL	Gas, BTEX + MTBE

Comments

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline & G. Sanchez | DATE: 3-22-96

ADDRESS: 3701 Broadway | JOB #: 5127.85

CITY: Oakland | SS#: 9-1026

Well ID: B-2 | Well Condition: OK

Well Location Description:

Well Diameter: 2 in | Hydrocarbon Thickness: @ 0.02

Total Depth: 19.0 ft

Depth to Liquid: 12.85 ft

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

3 # of casing Volume: _____ x 1.7 x(VF) = #Estimated purge Volume: _____ gal.

Purge Equipment: Bailer | Sampling Equipment: Disposable Bailer

Did well dewater: _____ | If yes, Time: _____ | Volume: _____

Starting Time: _____ | Purging Flow Rate: _____ gpm.

Sampling Time: _____

Time	pH	Conductivity	Temperature	Volume
	Not sampled - Product in well			

Weather Conditions: cloudy

Water Color: clear | Odor: strong

Sediment Description: sand

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
B-2	3X40-ml	Y	HCl	GTEL	Gas. BTEX & MTBE

Comments: Bailed 1/16 gal (product)

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline + G. Sanchez | DATE: 3-22-96

ADDRESS: 3701 Broadway | JOB #: 5127.25

CITY: Oakland | SS#: 9-1026

Well ID: B-3 | Well Condition: OK

Well Location Description:

Well Diameter: ____ in | Hydrocarbon Thickness: 0.37

Total Depth: ____ ft

Depth to Liquid: 11.46 ft

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

# of casing Volume: ____ x ____ x(VF) ____ = #Estimated purge Volume: ____ gal.

Purge Equipment: ____ | Sampling Equipment: Disposable Bailer

Did well dewater: ____ | If yes, Time: ____ | Volume: ____

Starting Time: ____ | Purging Flow Rate: ____ gpm.

Sampling Time: ____

Time	pH	Conductivity	Temperature	Volume
Not sampled - Product in well				

Weather Conditions: ____

Water Color: ____ | Odor: ____

Sediment Description: ____

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
	3x40ml	Y	HCl	GTEL	Gas. BTEX + MTBE

Comments: Bailed 1/4 gal (product)

J/B

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline & G. Sanchez
DATE: 3-22-96

ADDRESS: 3701 Broadway
JOB #: 5127.25

CITY: Oakland
SS#: 9-1026

Well ID: E
Well Condition: dcy

Well Location Description:

Well Diameter: 2" in
Hydrocarbon Thickness: 0

Total Depth: 33.0 ft
Depth to Liquid: 9.62 ft

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

# of casing Volume: 23.98 x 0.17 x(VF) 4.1 #Estimated purge Volume: 12.2 gal.

Purge Equipment: Suction
Sampling Equipment: Disposable Bailer

Did well dewater: NC
If yes, Time: Volume:

Starting Time: 1207
Sampling Time: 1216

Purging Flow Rate: 2.2 gpm.

Time	pH	Conductivity	Temperature	Volume
1209	6.77	536	20.1	4.4
1211	6.56	547	20.2	8.8
1213	6.46	543	20.1	13.2
1216	6.48	545	20.1	14.0

Weather Conditions: Cloudy cool Breezy
Water Color: Clear
Odor: None
Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
E	3x40ml	Y	HCl	GTEL	Gas. BTEX & MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline & G. Sanchez — DATE: 3-22-96

ADDRESS: 3701 Broadway — JOB #: 5127.95

CITY: Oakland — SS#: 9-1026

Well ID: F — Well Condition: Okay

Well Location Description:

Well Diameter: 2" in — Hydrocarbon Thickness:

Total Depth: 21.0 ft

Depth to Liquid: 11.16 ft

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

# of casing Volume: 9.84 x 0.17 x(VF) 1.67 #Estimated purge Volume: 50 gal.

Purge Equipment: Suction — Sampling Equipment: Disposable Bailer

Did well dewater: NC — If yes, Time: — Volume:

Starting Time: 11:58 — Purging Flow Rate: 1.7 gpm.

Sampling Time: 1204

Time	pH	Conductivity	Temperature	Volume
1159	6.86	551	20.6	1.7
1200	6.77	556	21.0	3.4
1201	6.85	551	20.7	5.1
1204	6.84	556	20.7	5.5

Weather Conditions: Partly Cloudy Breezy

Water Color: Clear — Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
F	3x40-ml	Y	HCl	GTEL	Gas. BTEX & MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline & G. Sanchez
DATE: 3-22-96

ADDRESS: 3701 Broadway
JOB #: 5127.95

CITY: Oakland
SS#: 9-1026

Well ID: B-4
Well Condition: OK

Well Location Description:

Well Diameter: 2 in
Hydrocarbon Thickness: 6

Total Depth: 19.0 ft
Depth to Liquid: 12.00 ft

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

3 # of casing Volume: 7.00 x .17 x(VF) 7.2 #Estimated purge Volume: 3.6 gal.

Purge Equipment: Bailer
Sampling Equipment: Disposable Bailer

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

Starting Time: 1132
Sampling Time:

Purging Flow Rate: — gpm.

Time	pH	Conductivity	Temperature	Volume
1133	6.56	29.10	17.9	1.2 gal
1135	6.52	2950	18.7	2.4
1137	6.52	2970	19.0	3.6

Weather Conditions: cloudy
Water Color: clear
Odor: strong
Sediment Description: none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
B-4	3X40ml	Y	HCl	GTEL	Gas. BTEX & MTBE

Comments:

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

Chain-of-Custody-Record

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

Chevron Facility Number: 9-1026
Facility Address: 3701 Broadway Oakland
Consultant Project Number: 5121
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): Mark Miller
(Phone): 842-8134
Laboratory Name: GTEL
Laboratory Release Number: 3470530
Samples Collected by (Name): F. Chino
Collection Date: 3-22-96
Signature: [signature]

Analyses To Be Performed

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)	TPH Gas + BTEX w/MTBE (8015) (8020)	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	1	2	W	TB	—	HCl	Y	X												DO NOT BILL TB-LB ANALYSIS
EA-1	2	3	↓	G	1154	↓	↓	X												
~~A~~	3	↓	↓	↓	1204	↓	↓	X												
E	4	↓	↓	↓	1216	↓	↓	X												
EA-2	5	↓	↓	↓	1122	↓	↓	X												
B-1	6	↓	↓	↓	1238	↓	↓	X												
B-4	7	↓	↓	↓	1137	↓	↓	X												

W603463

No Seals JOL

7026515871

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
[signature]	GR	3-22-96 / 1325	[signature]	GTEL	3/22 1:30 P
John Weber	GTEL	3-22-96 1610			
			Received For Laboratory By (Signature): Tammy [signature]		0805 3/23/96

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

COC-3.5WG/03 917/PCH

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

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

March 28, 1996

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

RE: GTEL Client ID: GTR01CHV08
Login Number: W6030463
Project ID (number): 5127
Project ID (name): CHEVRON/9-1026/3701 BROADWAY/OAKLAND/CA

Dear Deanna Harding:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 03/23/96.

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

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: W6030463
Project ID (number): 5127
Project ID (name): CHEVRON/9-1026/3701 BROADWAY/OAKLAND/CA

Method: EPA 8020
Matrix: Aqueous

	GTEL Sample Number	W6030463-01	W6030463-02	W6030463-03	W6030463-04
	Client ID	TB-LB	EA-1	F	E
	Date Sampled		03/22/96	03/22/96	03/22/96
	Date Analyzed	03/25/96	03/25/96	03/25/96	03/25/96
	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. Analyte list modified to include additional compounds. "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: W6030463
Project ID (number): 5127
Project ID (name): CHEVRON/9-1026/3701 BROADWAY/OAKLAND/CA

Method: EPA 8020
Matrix: Aqueous

GTEL Sample Number		W6030463-05	W6030463-06	W6030463-07	--
Client ID		EA-2	B-1	B-4	--
Date Sampled		03/22/96	03/22/96	03/22/96	--
Date Analyzed		03/25/96	03/25/96	03/25/96	--
Dilution Factor		1.00	1.00	50.0	--
Analyte	Reporting Limit	Units	Concentration:			
MTBE	5.0	ug/L	< 5.0	< 5.0	400	--
Benzene	0.5	ug/L	< 0.5	< 0.5	10000	--
Toluene	0.5	ug/L	< 0.5	0.6	72.	--
Ethylbenzene	0.5	ug/L	< 0.5	2.1	560	--
Xylenes (total)	0.5	ug/L	< 0.5	2.2	170	--
BTEX (total)	--	ug/L	--	4.9	11000	--
TPH as Gasoline	50	ug/L	90	200	29000	--

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. Analyte list modified to include additional compounds. "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: W6030463 Volatile Organics
Project ID (number): 5127 Method: EPA 8020
Project ID (name): CHEVRON/9-1026/3701 BROADWAY/OAKLAND/CA Matrix: Aqueous

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT
Method: EPA 8020		Acceptability Limits:	43-136%
032596GC5-2	CV032596205	Calibration Verifi	92.4
032596GC5-3	BW0325965	Method Blank Water	94.7
032596GC5-4	DP03046307	Duplicate	96.4
032596GC5-5	MS03046302	Matrix Spike	93.4
--	03046301	TB-LB	84.3
--	03046302	EA-1	85.3
--	03046303	F	77.4
--	03046304	E	80.2
--	03046305	EA-2	84.6
--	03046306	B-1	92.2
--	03046307	B-4	94.2

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

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6030463 Volatile Organics
Project ID (number): 5127 Method: EPA 8020
Project ID (name): CHEVRON/9-1026/3701 BROADWAY/OAKLAND/CA Matrix: Aqueous

Method Blank Results

QC Batch No: 032596GC5-3
Date Analyzed: 25-MAR-96

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

Notes:

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6030463 Volatile Organics
Project ID (number): 5127 Method: EPA 8020
Project ID (name): CHEVRON/9-1026/3701 BROADWAY/OAKLAND/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:032596GC5-2			
Benzene	20.0	16.3	81.5	77-123%
Toluene	20.0	18.0	90.0	77.5-122.5%
Ethylbenzene	20.0	18.2	91.0	63-137%
Xylenes (Total)	60.0	53.3	88.8	85-115%
TPH as Gasoline	500	494	98.8	80-120%

Notes:
QC check source: Supelco #LA12389

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6030463 Volatile Organics
Project ID (number): 5127 Method: EPA 8020
Project ID (name): CHEVRON/9-1026/3701 BROADWAY/OAKLAND/CA Matrix: Aqueous

Duplicate Sample Results

Analyte	Original Concentration	Duplicate Concentration	RPD, %	Acceptability Limits, %
EPA 8020 Units: ug/L	QC Batch: 032596GC5-4	GTEL Sample ID: W6030463-07		Client ID: B-4
MTBE	< 500.	< 500.	NA	20
Benzene	10400	10400	NA	23.9
Toluene	71.7	72.4	0.972	27.2
Ethylbenzene	559.	555.	0.718	21.6
Xylenes (Total)	173.	168.	2.93	22.0
TPH as Gasoline	28600	29400	2.76	20

Notes:

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

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6030463 Volatile Organics
Project ID (number): 5127 Method: EPA 8020
Project ID (name): CHEVRON/9-1026/3701 BROADWAY/OAKLAND/CA Matrix: Aqueous

Matrix Spike(MS) Results

GTEL Sample ID:W6030463-02 MS ID:MS03046302
Analysis Date: 25-MAR-96 25-MAR-96

Units: ug/L Analyte	Sample Conc.	Spike Added	MS Conc.	MS % Rec.	Acceptability Limits %Rec.
Benzene	< 0.5 (0.000)	20.0	18.5	92.5	67-110
Toluene	< 0.5 (0.000)	20.0	20.4	102.	68-115
Ethylbenzene	< 0.5 (0.000)	20.0	21.3	107	65-120
Xylenes (Total)	< 0.5 (0.000)	60.0	59.1	98.5	62-119

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

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6030463 Volatile Organics
Project ID (number): 5127 Method: EPA 8020
Project ID (name): CHEVRON/9-1026/3701 BROADWAY/OAKLAND/CA Matrix: Aqueous

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

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

Comments: