Chevron

November 14, 1998

Chevron Products Company
6001 Bollinger Canyon Road
Building L, Room 1110
PO Box 6004
San Ramon, CA 94583-0904

Philip R. Briggs
Project Manager
Site Assessment & Remediation
Phone 925 842-9136
Fax 925 842-8370

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 Third Quarter (Semi-Annual) Groundwater Monitoring & Sampling Report for 1998 that was prepared by our consultant Gettler-Ryan Inc. for the above noted site. The sampling events are conducted in the 1st and 3rd quarters with the monitoring wells sampled and analyzed for TPH-g, BTEX and MtBE constituents. Wells B, B-1, B-2, B-3 and B-4 are sampled semi-annually, while wells A, E, F, EA-1 and EA-2 are sampled annually.

The concentration of benzene declined in monitoring well B-1 from the previous sampling event, while increasing in well B-4. Separate phase hydrocarbons (SPH) were detected in monitoring wells B, B-2 and B-3. The wells were bailed and approximately 5.0 gals. 0.50 gals. and 0.50 gals., were removed from the respective wells.

Depth to the groundwater varied from 12.81 feet to 15.50 feet below grade, with direction of flow to the southwest.

Since we continue to recover SPH in monitoring wells B and B-2 and recently in well B-3 over a long period of time, it appears that SPH may have accumulated in pockets surrounding these wells. **Chevron recommends the installation of an oxidant such as hydrogen peroxide, to oxidize the hydrocarbons in the areas surrounding each well (2nd request).** Hydrogen peroxide is a non-threat compound as the by-products are carbon dioxide (CO2) and water (H20).

If you have any questions or comments, call me at (925) 842-9136.

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.

October 19, 1998 Job #5127.80

Mr. Phill Briggs
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

Re: Semi-Annual Groundwater Monitoring & Sampling Report
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

Dear Mr. Briggs:

This report documents the semi-annual groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On September 15, 1998, field personnel were on-site to monitor five wells (B, and B-1 through B-4) and sample two wells (B-1 and B-4) at the above mentioned site.

Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were present in three 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 - Groundwater Sampling (attached). The field data sheets for this event are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are presented in Table 1. The chain of custody document and laboratory analytical reports are attached.

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

Sincerely,

Deanna L. Harding
Project Coordinator

Barbara Sieminski
Project Geologist, R.G. No. 6676

REGISTERED GEOLOGIST
BARBARA SIEMINSKI
No. 6676
STATE OF CALIFORNIA

DLH/SJC/dlh
5127.QML

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

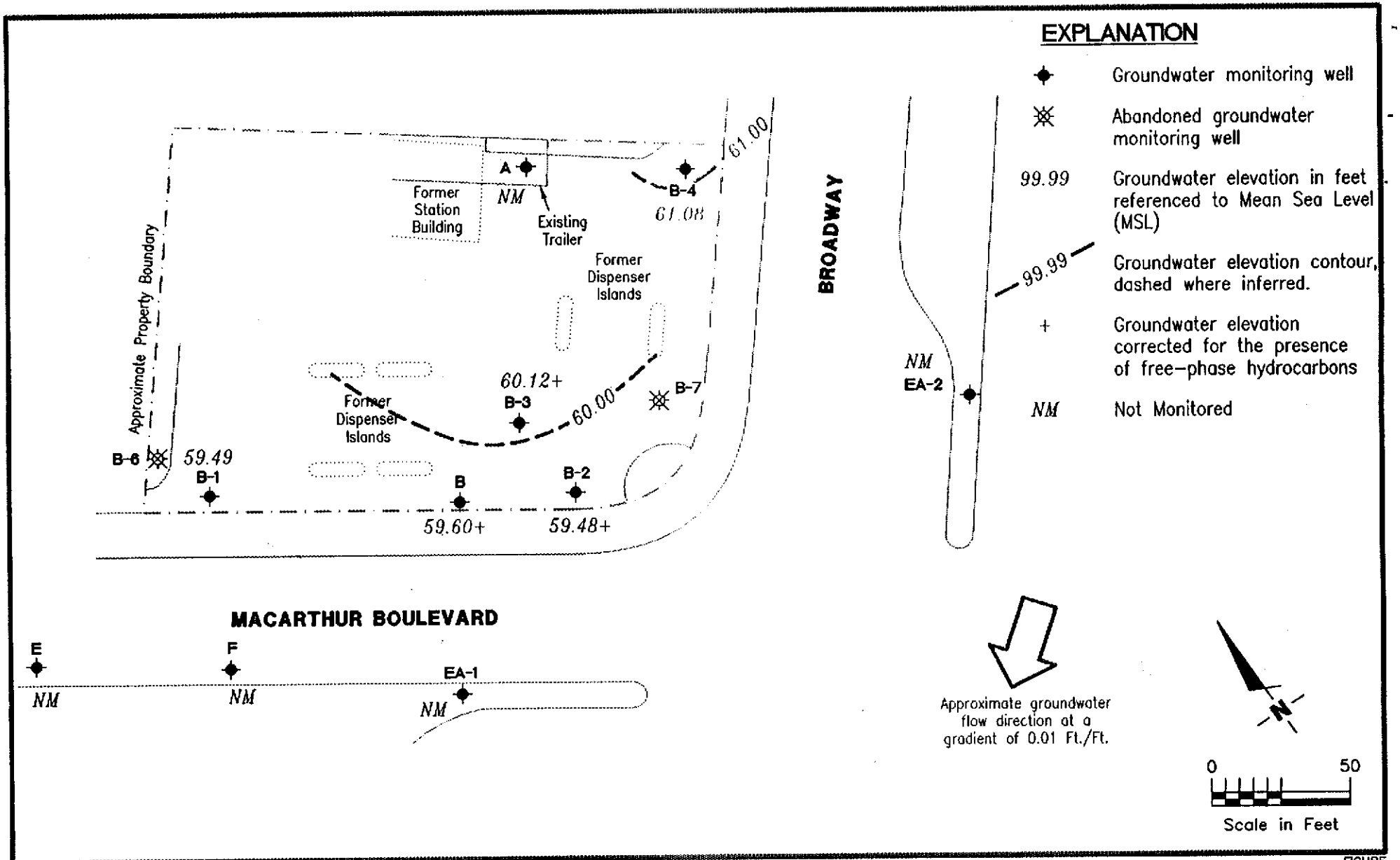

FIGURE 1

Gettler - Ryan Inc.

6747 Sierra Ct., Suite J
Dublin, CA 94568
(925) 551-7555

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

JOB NUMBER 5127

REVIEWED BY

DATE September 15, 1998

REVISED DATE

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]	---	---	---	---	---	---	---	---	---
	9/25/96[7]	---	---	---	---	---	---	---	---	---
	3/6/97[7]	---	---	---	---	---	---	---	---	---
	9/12/97	14.56	60.73	0	2,600	460	<10	70	11	67
	4/2/98	8.75	66.54	0	1,700[8]	130	1.7	44	42	<2.5
	9/15/98	---	---	---	---	---	---	---	---	---
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	---

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	11/8/91	15.71	57.68	0	11,000	2,400	48	280	160	---
(cont)	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	---	---	---	---	---	---
	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[3]	0.12	---	---	---	---	---	---
	3/28/95[2]	---	---	---	---	---	---	---	---	---
	6/22/95	14.56	58.92[3]	0.11	---	---	---	---	---	---
	9/21/95	15.88	58.41[3]	1.12	---	---	---	---	---	---
	3/22/96	13.02	61.19[3]	1.02	---	---	---	---	---	---
	9/25/96	15.76	58.81[3]	1.47	---	---	---	---	---	---
	3/6/97	14.30	59.95[3]	1.08	---	---	---	---	---	---
	9/12/97	14.61	59.32[3]	0.68	---	---	---	---	---	---
	4/2/98	12.50	61.04[3]	0.19	---	---	---	---	---	---
	9/15/98	**14.87**	**59.60[3]**	**1.35**	**---**	**---**	**---**	**---**	**---**	**---**
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	---

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-1 (cont)	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
	9/25/96	13.76	58.54	0	690	5.4	1.2	1.6	6.8	<5.0
	3/6/97	12.08	60.22	0	420	31	1.0	2.5	4.3	5.9
	9/12/97	13.54	58.76	0	170	31	1:4	1.6	4.6	11
	4/2/98	10.73	61.57	0	670[8]	91	4.2	8.7	17	<2.5
	9/15/98	**12.81**	**59.49**	**0**	**<50**	**1.5**	**<0.50**	**<0.50**	**<0.50**	**<10**
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[5]	---	---	---	---	---	---	---	---	---
	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	---	---	---	---	---	---
	9/25/96	15.98	58.56[3]	0.03	---	---	---	---	---	---
	3/6/97	14.11	60.43[3]	0.02	---	---	---	---	---	---
	9/12/97	15.35	59.19[3]	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-2 (cont)	4/2/98	13.07	61.74[3]	0.36	---	---	---	---	---	---
	9/15/98	**15.50**	**59.48[3]**	**0.58**	---	---	---	---	---	---
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	---	---	---	---	---	---
74.13	11/18/92	15.68	58.47	0.03	---	---	---	---	---	---
	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	0.00	1,100,000	18,000	29,000	8,900	59,000	---
	3/9/94	13.53	60.60	0.00	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	---	---	---	---	---	---
	9/25/96	14.82	60.13[3]	1.02	---	---	---	---	---	---
	3/6/97	13.12	61.23[3]	0.28	---	---	---	---	---	---
	9/12/97	14.67	59.56[3]	0.13	---	---	---	---	---	---
	4/2/98	11.20	62.93	Sheen	160,000	27,000	26,000	2,500	14,000	<500
	9/15/98	**14.05**	**60.12[3]**	**0.05**	---	---	---	---	---	---
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	---

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-4	11/13/90	16.64	59.79	0	21,000	7,000	100	550	320	---
(cont)	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[e]	12,000	72	540	68	---
	3/22/96	12.00	64.43	0	29,000	10,000	72	560	170	400
	9/25/96	16.28	60.15	0	53,000	11,000	<50	160	74	<500
	3/6/97	13.56	62.87	0	<5,000	17,000	<50	<50	<50	<500
	9/12/97	16.02	60.41	0	7,600	8,100	65	520	38	300
	4/2/98	11.85	64.58	0	28,000[g]	9,700	59	760	220	<250
	9/15/98	**15.35**	**61.08**	**0**	**25,000**	**12,000**	**200**	**900**	**<200**	**<1,000**
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[f]	---	---	---	---	---	---	---	---	---
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	---

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-7	11/13/90	17.09	58.31	0	---	---	---	---	---	---
(cont)	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
	3/6/97	12.32	57.75	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/12/97	---	---	---	---	---	---	---	---	---
	4/2/98	8.43	61.64	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	9/15/98	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
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	---	---	---	---	---	---
	8/9/90	18.95	53.06	0	---	---	---	---	---	---
	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	---

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	12/20/94	12.57	59.15	0	<50	<0.5	<0.5	<0.5	<0.5	---
(cont)	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
	3/6/97	11.38	60.34	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/12/97	---	---	---	---	---	---	---	---	---
	4/2/98	13.12	58.60	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	9/15/98	---	---	---	---	---	---	---	---	---
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	---
	3/9/94	14.38	57.47	0	<50	<0.5	1.0	<0.5	<0.5	---
	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
	3/6/97	13.88	57.97	0	<50	2.8	<0.5	<0.5	0.8	<5.0
	9/12/97	---	---	---	---	---	---	---	---	---
	4/2/98	12.69	59.16	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	9/15/98	---	---	---	---	---	---	---	---	---

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-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
	3/6/97	15.06	61.18	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/12/97	---	---	---	---	---	---	---	---	---
	4/2/98	13.73	62.51	0	230[8]	0.99	<0.50	<0.50	<0.50	<2.5
	9/15/98	---	---	---	---	---	---	---	---	---
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	---
	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	---
TB-LB	8/21/91	---	---	---	<50	<0.4	<0.3	<0.3	<0.4	---

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			---------->
Trip Blank (cont)	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
	9/25/96	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/6/97	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/12/97	---	---	---	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	4/2/98	---	---	---	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	9/15/98	**---**	**---**	**---**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<10**

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

EXPLANATION:

TOC = Top of casing elevation
(ft) = feet
DTW = Depth to water
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 tertiary butyl ether
ppb = Parts per billion
--- = Not analyzed/not applicable

ANALYTICAL METHODS

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

NOTES:

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.
[8] Laboratory report indicates unidentified hydrocarbons C6-C12.

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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)	PRODUCT/WATER BAILED (Gallons)
B	6/22/95	0.11	1.00
	9/21/95	1.12	2.00
	3/22/96	1.02	2.00
	9/25/96	1.47	1.50
	3/6/97	1.08	2.00
	9/12/97	0.68	3.00
	4/2/98	0.19	3.00
	9/15/98	**1.35**	**5.00**
B-2	3/22/96	0.02	0.25
	9/25/96	0.03	0.25
	3/6/97	0.02	0.00
	9/12/97	0.03	1.50
	4/2/98	0.36	2.00
	9/15/98	**0.58**	**0.50**
B-3	3/28/95	1.54	2.00
	6/22/95	1.23	0.50
	9/21/95	0.30	0.50
	3/22/96	0.37	0.25
	9/25/96	1.02	1.00
	3/6/97	0.28	0.50
	9/12/97	0.13	2.00
	4/2/98	Sheen	0.00
	9/15/98	**0.05**	**0.50**

EXPLANATION:

(ft) = feet

5127.pt

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using a MMC flexi-dip interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

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

Groundwater samples are collected using Chevron-designated disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

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

As requested by Chevron Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-1026 Job#: 5127.80

Address: 3701 Broadway Date: 9-15-98

City: Oakland, CA Sampler: F.Cline

Well ID B Well Condition: okay

Well Diameter 4" in. Hydrocarbon Thickness: 1.35 in. Amount Bailed (product/water): 55 gals 3/c (gal.)

Total Depth 17' ft.

Depth to Water ~~13.38~~ 14.87 ft.

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

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment:
- Disposable Bailer
- Bailer
- Stack
- Suction
- Grundfos
- Other: _____

Sampling Equipment:
- Disposable Bailer
- Bailer
- Pressure Bailer
- Grab Sample
- Other: _____

Starting Time: _____ Weather Conditions: _____

Sampling Time: _____ Water Color: _____ Odor: _____

Purging Flow Rate: _____ gpm. Sediment Description: _____

Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
				Product			
		Bail	Free				

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	~~3 x 40ml/VOA~~	~~Y~~	~~HCL~~	~~NET/BTEL~~ SEQ.	~~TPH-Gas/BTEX/MTBE~~

COMMENTS: NOT SAMPLED DUE TO Presence OF Free Product

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-1026 Job#: 5127.80

Address: 3701 Broadway Date: 9-15-95

City: Oakland, CA Sampler: F. Cline

Well ID B-1 Well Condition: clay

Well Diameter 4" in. Hydrocarbon Thickness: — in. Amount Bailed (product/water): — (gal.)

Total Depth 33' ft.

Depth to Water 12.81 ft.

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

20.19 X VF 0.66 = 13.3 X 3 (case volume) = Estimated Purge Volume: 39.9 (gal.)

Purge Equipment: Disposable Bailer; Bailer; ~~Stack~~; ~~Suction~~; Grundfos; Other: _____

Sampling Equipment: ~~Disposable Bailer~~; Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 1412 Weather Conditions: clear 1Fc4

Sampling Time: 1429 Water Color: clear Odor: None

Purging Flow Rate: 2.7 gpm. Sediment Description: n/a

Did well de-water? NC If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1415	13.5	6.56	985	21.3			
1420	27.0	6.55	981	20.7			
1423	40.0	6.56	980	20.6			
1427	40.5	6.55	981	20.7			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
B-1	3 x 40m/VOA	Y	HCL	~~NEMOTEL~~ SEQ.	TPH-Gas/BTEX/MTBE

COMMENTS: _____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-1026 Job#: 5127.80

Address: 3701 Broadway Date: 9-15-96

City: Oakland, CA Sampler: E.Cline

Well ID B-2 Well Condition: okay

Well Diameter 2" in. Hydrocarbon Thickness: 0.58 in. Amount Bailed (product/water): 1/2 (gal.) 1/4/14

Total Depth 19' ft.

Depth to Water 15.50 ft. 14.92

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

____ X VF ____ = ____ X 3 (case volume) = Estimated Purge Volume: ____ (gal.)

Purge Equipment:
- Disposable Bailer
- Bailer
- Stack
- Suction
- Grundfos
- Other: ____

Sampling Equipment:
- Disposable Bailer
- Bailer
- Pressure Bailer
- Grab Sample
- Other: ____

Starting Time: ____ Weather Conditions: ____

Sampling Time: ____ Water Color: ____ Odor: ____

Purging Flow Rate: ____ gpm. Sediment Description: ____

Did well de-water? ____ If yes; Time: ____ Volume: ____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
			Bail free Product				

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	~~3 x 40ml/VOA~~	~~Y~~	~~HCL~~	~~CHEMTEL~~ SEQ	~~TPH Gas/BTEX/MTBE~~

COMMENTS: NOT SAMPLED DUE TO PRESENCE OF FREE PRODUCT

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-1026 Job#: 5127.80

Address: 3701 Broadway Date: 9-15-9E

City: Oakland, CA Sampler: F.Cline

Well ID B-3 Well Condition: clay

Well Diameter 2" in. Hydrocarbon Thickness: 0.05 in. Amount Bailed (product/water): 1/2 gal. 1/4/1/4

Total Depth 16' ft.

Depth to Water 14.05 ft.

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

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, Suction, Grundfos, Other: _____

Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: _____ Weather Conditions: Clear Warm

Sampling Time: _____ Water Color: _____ Odor: _____

Purging Flow Rate: _____ gpm. Sediment Description: _____

Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
			Bailed	Free Product			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
~~-~~	~~3 x 40ml VOA~~	~~Y~~	~~HCL~~	~~NET/OTEL~~ SEQ.	~~TPH-Gas/BTEX/MTBE~~

COMMENTS: NOT SAMPLED DUE TO PRESENCE OF FREE PRODUCT

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-1026 Job#: 5127.80

Address: 3701 Broadway Date: 9-15-98

City: Oakland, CA Sampler: F.Cline

Well ID B-4 Well Condition: clay

Well Diameter 2" in. Hydrocarbon Thickness: C in. Amount Bailed (product/water): C (gal.)

Total Depth 19' ft.

Depth to Water 15.35 ft.

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

3.65 X VF 0.17 = 0.6 X 3 (case volume) = Estimated Purge Volume: 1.8 (gal.)

Purge Equipment: (Disposable Bailer) ~~Bailer~~ Stack Suction Grundfos Other: _____

Sampling Equipment: (Disposable Bailer) ~~Bailer~~ Pressure Bailer Grab Sample Other: _____

Starting Time: 14:31 Weather Conditions: Clear Hot

Sampling Time: 14:33 Water Color: Clear Odor: Mild

Purging Flow Rate: NA gpm. Sediment Description: N/a -

Did well de-water? No If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
14:33	0.6	6.64	2220	20.2			
14:35	1.2	6.66	2470	20.1			
14:37	1.8	6.67	2500	20.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
B-4	3 x 40m/VOA	Y	HCL	~~NET/TEL~~ SEQ.	TPH-Gas/BTEX/MTBE

COMMENTS: _____

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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 #9-1026 Facility Address 3701 Broadway, Oakland, CA Consultant Project Number 5127 Consultant Name Gettler-Ryan Address 6747 Sierra Ct, Ste J, Dublin 94568 Project Contact (Name) Deanna Harding (Phone) 551-7555 (Fax Number) 551-7888	Chevron Contact (Name) Mr. Phil Briggs (Phone) (510) 842-9136 Laboratory Name SEQ. Service Code: ZZ02790 Laboratory Service Order 9144488 Samples Collected by (Name) R. Cline Collection Date 9-15-98 Signature [signature]

Analyses To Be Performed 9809945

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)					DO NOT BILL TB-LB ANALYSIS SP 16 1 16 Remarks
TB-LB	01	2	W	TB	—	HCl	Y	X												
B-1	02	3	↓	G	1420	↓	↓	X												
B-4	03	3	↓	G	1437	↓	↓	X												

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Turn Around Time (Circle Choice)
[signature]	G-R Inc.	9/16/98/0800	John Weller	G-R Inc.	9-16-98 0900	24 Hrs.
John Weller	G-R Inc.	9-16-98 0900	[signature]	5290'A	9.16.98 1000	48 Hrs.
[signature]	5290'A	9.16.98	Received For Laboratory By (Signature) [signature]		9/16/98 13:16	5 Days 10 Days As Contracted (circled)

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler Ryan/Geostrategies
6747 Sierra Court Suite J
Dublin, CA 94568

Attention: Deanna Harding

Client Proj. ID: Chevron 9-1026
Sample Descript: TB-LB
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9809945-01

Sampled: 09/15/98
Received: 09/16/98
Analyzed: 09/18/98
Reported: 09/28/98

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	10	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.60	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	96

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1197

Mike Gregory
Project Manager

Sequoia Analytical

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-1026	Sampled: 09/15/98
6747 Sierra Court Suite J	Sample Descript: B-1	Received: 09/16/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/18/98
Attention: Deanna Harding	Lab Number: 9809945-02	Reported: 09/28/98

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	10	N.D.
Benzene	**0.50**	**1.5**
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.60	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	113

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1197

Mike Gregory
Project Manager

Sequoia Analytical

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-1026	Sampled: 09/15/98
6747 Sierra Court Suite J	Sample Descript: B-4	Received: 09/16/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/18/98
Attention: Deanna Harding	Lab Number: 9809945-03	Reported: 09/28/98

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**20000**	**25000**
Methyl t-Butyl Ether	1000	N.D.
Benzene	**200**	**12000**
Toluene	**200**	**200**
Ethyl Benzene	**200**	**900**
Xylenes (Total)	200	N.D.
Chromatogram Pattern:		**GAS**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	95

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1197

Mike Gregory
Project Manager

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler Ryan/Geostrategies
6747 Sierra Court Suite J
Dublin, CA 94568
Attention: Deanna Harding

Client Proj. ID: Chevron 9-1026

Lab Proj. ID: 9809945

Received: 09/16/98

Reported: 09/28/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 6 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPH-GAS/BTEX:
Sample 9809945-03 was diluted 400-fold.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler Ryan/Geostrategies	Client Project ID:	Chevron 9-1026	
6747 Sierra Court, Ste J	Matrix:	Liquid	
Dublin, CA 94568			
Attention: Deanna Harding	Work Order #:	9809945 -01-03	Reported: Sep 30, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	HI17G61W	HI17G61W	HI17G61W	HI17G61W
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 8015M	EPA 8015M	EPA 8015M	EPA 8015M
Analyst:	J. Doak	J. Doak	J. Doak	J. Doak
MS/MSD #:	V8090352	V8090352	V8090352	V8090352
Sample Conc.:	0.069	0.081	0.025	0.085
Prepared Date:	9/17/98	9/17/98	9/17/98	9/17/98
Analyzed Date:	9/17/98	9/17/98	9/17/98	9/17/98
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	20	18	18	53
MS % Recovery:	98	90	92	89
Dup. Result:	19	18	18	52
MSD % Recov.:	96	88	90	87
RPD:	5.1	0.0	0.0	1.9
RPD Limit:	0-14	0-10	0-10	0-10

LCS #:				
Prepared Date:				
Analyzed Date:				
Instrument I.D.#:				
Conc. Spiked:				
LCS Result:				
LCS % Recov.:				

MS/MSD LCS Control Limits	70-127	70-121	70-127	70-127

SEQUOIA ANALYTICAL
Elap #1197

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference