Chevron

June 26, 1995

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

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, CA

Dear Ms. Hugo:
Enclosed is the quarterly Groundwater Monitoring and Sampling Activities report dated May 5, 1995, prepared by our consultant Gettler-Ryan, Inc. for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and BTEX. Concentrations of dissolved hydrocarbon constituents in the ground water samples analyzed were consistent with previous observations at the site. Depth to ground water was measured at approximately 8.5 feet to 13.3 feet below grade and the direction of flow is to the south-southwest.

Separate phase hydrocarbons (SPH) were observed in monitor wells B-3 at a measured thickness of 1.54 feet. The SPH was bailed, removed from the site, and transported to Chevron's facility in Richmond for recycling.

Based on discussions in our meeting of January 26, 1995, we are currently evaluating appropriate site management strategies. I will contact you by phone within the next week to discuss a conceptual plan. In the interim, Chevron will continue to monitor and sample all wells at this site on a quarterly basis. If you have any questions or comments, please do not hesitate to contact me at (510) 842-8134.

Sincerely,
CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller
Site Assessment and Remediation Engineer

Enclosure

cc: Ms. B.C. Owen

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

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GETTLER-RYAN INC.

May 5, 1995

Mark Miller
Chevron USA Products Company
P.O. Box 5004
San Ramon, CA 94583

Re: Former Chevron Service Station #9-1026
3701 Broadway
Oakland, CA
Job #5127.80

Dear Mr. Miller:

This report documents the quarterly groundwater sampling event performed by Gettler-Ryan (G-R) personnel. On March 28, 1995, field personnel were on-site to gauge and sample seven wells (B-1, B-2, B-4, E, F, EA-1 and EA-2) at Former Chevron Service Station #9-1026 located at 3701 Broadway in Oakland, California.

Static groundwater levels were measured on March 28, 1995. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were present in one site well, 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 Superior Precision Analytical. Analytic results are presented in Table 1. The chain of custody document and laboratory analytic reports are enclosed. G-R is not responsible for laboratory omissions or errors.

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

Respectfully submitted,

Argy Leyton
Environmental Project Manager

Stephen J. Carter
Senior Geologist, R.G. 5577

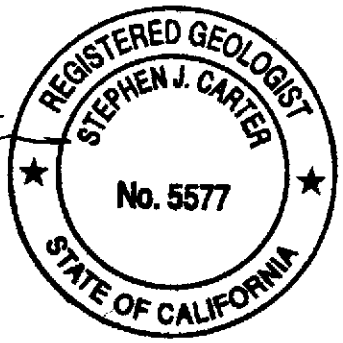

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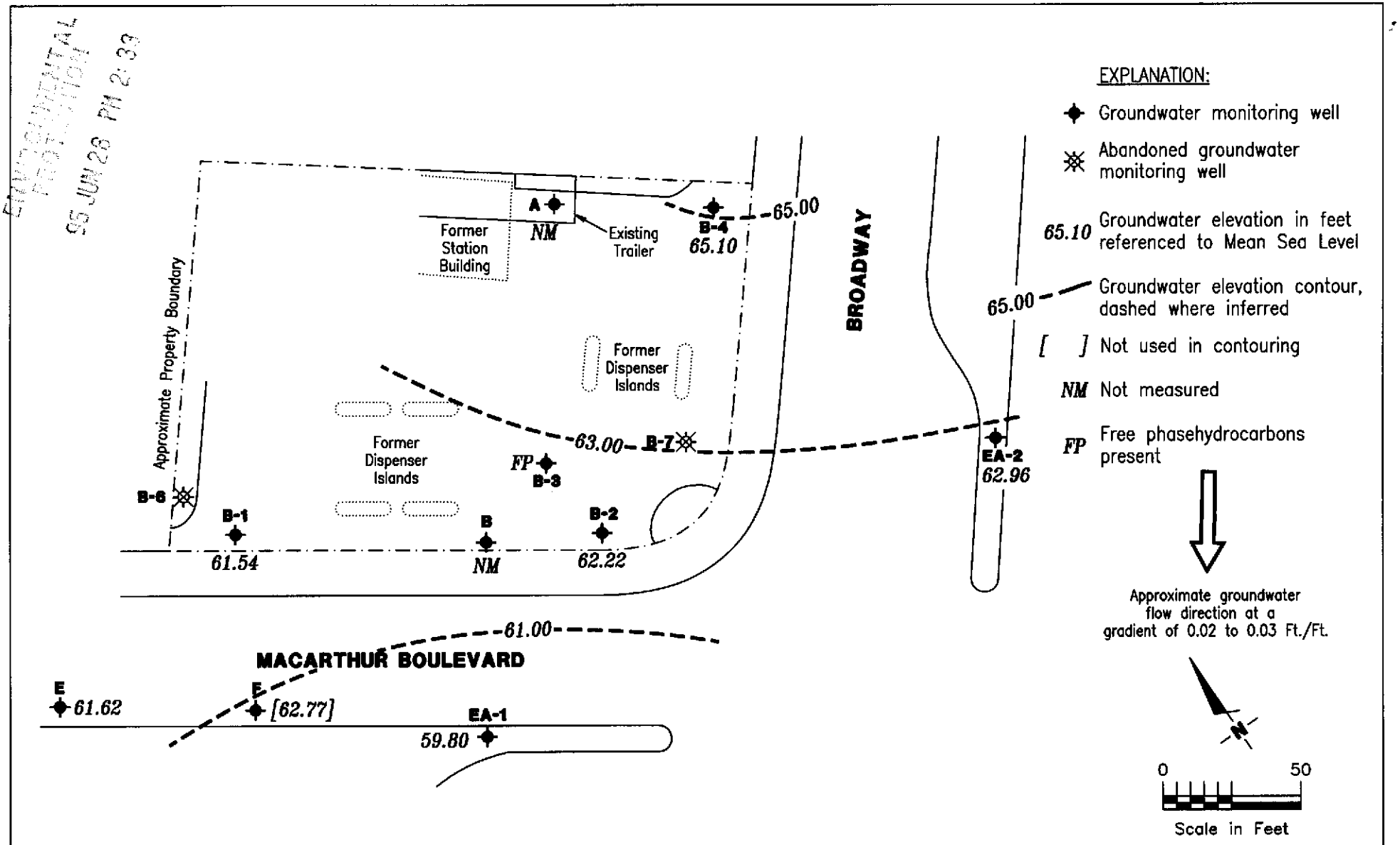
Figure 1: Potentiometric Map
Table 1: Water Level Data and Groundwater Analytic Results
Table 2: Separate-phase Thickness and Removal Data
Attachments: Standard Operating Procedure
Field Data Sheets
Chain of Custody Document and Laboratory Analytic Reports

6747 Sierra Court, Suite J • Dublin, California 94568 • (510) 551-7555



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
5127.80		March 28, 1995	

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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X
						<----------ppb---------->				
A	5/9/89	13.92	61.36	0	8015/8020	11,000	260	<2	94	230
	8/9/89	15.62	59.66	0	8015/8020	12,000	370	<1.5	100	240
75.28	11/9/89	15.95	59.33	0	8015/8020	16,000	690	10	180	350
	2/8/90	14.73	60.55	0	8015/8020	14,000	600	7	120	270
	5/10/90	15.48	59.80	0	8015/8020	16,000	840	4.8	140	340
	8/9/90	15.66	59.62	0	8015/8020	17,000	510	40	170	280
	11/13/90	16.48	58.80	0	8015/8020	9,000	570	3.1	86	170
	3/27/91	---	---	---	8015/8020	8,000	660	<5	110	250
	4/5/91	13.22	62.06	0	---	---	---	---	---	---
	6/19/91	15.37	59.91	0	8015/8020	8,900	740	<3	120	280
	8/21/91	15.99	59.29	0	8015/8020	6,800	620	23	85	200
	11/8/91	16.15	59.13	0	8015/8020	4,000	640	<5	77	160
	2/13/92	14.58	60.70	0	8015/8020	8,000	860	<5	120	390
	5/1/92	14.26	61.02	0	8015/8020	13,000	870	19	220	780
75.29	11/18/92	16.38	58.91	0	8015/8020	12,000	1,500	83	360	530
	3/19/93	12.16	63.13	0	8015/8020	14,000	820	6.1	180	420
	6/10/93	14.25	61.04	0	8015/8020	9,000	700	13	170	310
	9/8/93	---	---	---	---	---	---	---	---	---
	12/21/93	---	---	---	---	---	---	---	---	---
	3/9/94	13.34	61.95	0	8015/8020	9,600	860	21	200	390
	9/21/94[2]	---	---	---	---	---	---	---	---	---
	12/20/94[2]	---	---	---	---	---	---	---	---	---
	3/28/95[2]	---	---	---	---	---	---	---	---	---
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	8015/8020	26,000	7,100	370	430	1,000
	8/21/91	15.58	57.81	0	8015/8020	16,000	4,900	270	390	640
	11/8/91	15.71	57.68	0	8015/8020	11,000	2,400	48	280	160
	2/13/92	14.66	58.73	0	8015/8020	6,800	2,400	60	220	140
	5/1/92	14.50	58.89	Sheen	8015/8020	16,000	6,000	180	370	460
	11/18/92	15.60	57.79	0	8015/8020	28,000	2,200	150	920	4,300

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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X
						<----------ppb---------->				
B	3/19/93	13.29	60.12	0.03	—	—	—	—	—	—
(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[3]	0.12	—	—	—	—	—	—
	3/28/95[2]	—	—	—	—	—	—	—	—	—
B-1	5/9/89	12.58	59.19	0	8015/8020	16,000	2,300	260	81	740
	8/9/89	14.09	57.68	0	8015/8020	12,000	2,600	340	100	870
71.77	11/9/89	14.06	57.71	0	8015/8020	17,000	340	140	110	760
	2/8/90	12.65	59.12	0	8015/8020	5,500	70	19	17	150
	5/10/90	13.62	58.15	0	8015/8020	18,000	770	110	73	600
	8/9/90	13.87	57.90	0	8015/8020	82,000	750	66	95	980
	11/13/90	14.38	57.39	0	8015/8020	43,000	1,300	120	74	760
	3/27/91	—	—	—	8015/8020	18,000	580	92	94	770
	4/5/91	11.73	60.04	0	—	—	—	—	—	—
	6/19/91	13.56	58.21	0	8015/8020	21,000	910	56	96	810
	8/21/91	13.90	57.87	0	8015/8020	50,000	2,400	610	300	1,800
	11/8/91	14.05	57.72	0	8015/8020	540,000	3,600	1,500	1,900	5,900
	2/13/92	12.68	59.09	0	8015/8020	20,000	500	100	150	920
	5/1/92	12.92	58.85	Sheen	8015/8020	27,000	2,800	200	310	1,900
72.30	11/18/92	14.30	58.00	0	8015/8020	300	9.7	3.4	2.3	21
	3/19/93	12.28	60.02	0	8015/8020	130	23	.9	<0.5	5.6
	6/10/93	13.04	59.26	0	8015/8020	170	21	1.1	.8	6.6
	9/8/93	13.88	58.46	0.05	—	—	—	—	—	—
	12/21/93	13.53	58.77	0	8015/8020	<50	6.7	.5	<0.5	1.2
	3/9/94	12.65	59.65	0	8015/8020	1,300	520	8.8	2.4	53
	9/21/94	14.40	57.90	0	8015/8020	390	130	2.7	2.4	7.7
	12/20/94	12.35	59.95	0	8015/8020	1,600	520	9.9	8.9	34
	3/28/95	**10.76**	**61.54**	**0**	**8015/8020**	**160**	**38**	**2.1**	**1.4**	**5.4**
B-2	5/9/89	14.58	59.93	0	8015/8020	170,000	30,000	8,400	2,300	12,000
	8/9/89	16.06	58.45	0	8015/8020	60,000	29,000	8,700	2,400	12,000
74.51	11/9/89	16.95	57.56	0	8015/8020	110,000	32,000	5,500	2,800	12,000
	2/8/90	15.56	58.95	0	8015/8020	67,000	28,000	5,900	2,300	11,000
	5/10/90	15.94	58.57	0	8015/8020	69,000	24,000	4,800	2,000	11,000

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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X
						<----------ppb---------->				
B-2	8/9/90	15.97	58.54	0	8015/8020	100,000	33,000	4,000	2,100	12,000
(cont)	11/13/90	16.70	57.81	0	8015/8020	110,000	33,000	4,300	2,900	13,000
	3/27/91	---	---	---	8015/8020	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	8015/8020	100,000	22,000	2,500	2,000	11,000
	8/21/91	16.31	58.20	0	8015/8020	80,000	28,000	2,800	2,400	12,000
	11/8/91	16.60	57.91	0	8015/8020	94,000	29,000	1,900	2,200	11,000
	2/13/92	15.93	58.58	0	8015/8020	280,000	34,000	2,500	4,600	23,000
	5/1/92	14.94	59.57	Sheen	8015/8020	29,000	1,700	300	1,100	4,300
74.52	11/18/92	16.71	57.81	0	8015/8020	26,000	11,000	170	870	950
	3/19/93	14.06	60.46	0	8015/8020	110,000	28,000	1,200	2,200	12,000
	6/10/93	14.88	59.64	0	8015/8020	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	8015/8020	980,000	21,000	30,000	9,100	71,000
	3/9/94	14.53	59.99	Sheen	8015/8020	110,000	23,000	920	1,300	7,800
	9/21/94[5]	---	---	---	---	---	---	---	---	---
	12/20/94	14.65	59.86	0	8015/8020	70,000	25,000	710	920	5,300
	3/28/95	**12.30**	**62.22**	**0**	**8015/8020**	**76,000**	**20,000**	**920**	**1,200**	**5,200**
B-3	5/9/89	14.02	60.01	0	8015/8020	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	8015/8020	260,000	20,000	9,000	2,200	16,000
	8/21/91	15.61	58.51	0	8015/8020	70,000	28,000	11,000	1,800	11,000
	11/8/91	15.77	58.35	0	8015/8020	150,000	29,000	9,700	2,200	13,000
	2/13/92	14.88	59.24	0	8015/8020	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	8015/8020	1,100,000	18,000	29,000	8,900	59,000
	3/9/94	13.53	60.60	0	8015/8020	130,000	11,000	20,000	1,700	15,000

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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X
						<----------ppb---------->				
B-3	9/21/94	15.70	58.45[3]	0.02[4]	—	—	—	—	—	—
(cont)	12/20/94	13.48	60.67[3]	0.03	—	—	—	—	—	—
	3/28/95	—	—	**1.54**	—	—	—	—	—	—
B-4	5/9/89	14.93	61.50	0	8015/8020	3,600	840	34	120	200
	8/9/89	16.65	59.78	0	8015/8020	<500	4,200	130	370	260
76.43	11/9/89	—	—	—	8015/8020	5,000	4,200	83	400	250
	2/8/90	16.99	59.44	0	8015/8020	14,000	6,000	70	530	300
	5/10/90	16.05	60.38	0	8015/8020	12,000	5,400	130	460	320
	8/9/90	16.49	59.94	0	8015/8020	16,000	7,400	120	530	350
	11/13/90	16.64	59.79	0	8015/8020	21,000	7,000	100	550	320
	3/27/91	17.42	59.01	0	8015/8020	17,000	8,500	120	500	300
	4/5/91	14.66	61.77	0	8015/8020	14,000	7,700	75	610	210
	6/19/91	16.48	59.95	0	8015/8020	16,000	7,800	110	550	340
	8/21/91	17.00	59.43	0	8015/8020	18,000	11,000	110	450	340
	11/8/91	17.38	59.05	0	8015/8020	18,000	6,800	98	500	620
	2/13/92	16.42	60.01	0	8015/8020	15,000	9,100	86	570	350
	5/1/92	15.50	60.93	0	8015/8020	36,000	16,000	180	990	690
	3/19/93	14.11	62.32	0	8015/8020	26,000	15,000	150	900	790
	6/10/93	15.44	60.99	0	8015/8020	35,000	14,000	180	940	590
	9/8/93	16.65	59.78	0	8015/8020	34,000	15,000	170	1,100	870
	12/21/93	16.45	59.98	0	8015/8020	30,000	12,000	74	610	340
	3/9/94	14.88	61.55	0	8015/8020	37,000	15,000	140	1,000	580
	9/21/94	17.14	59.29	0	8015/8020	32,000	14,000	110	660	190
	12/20/94	14.99	61.44	0	8015/8020	23,000	8,400	97	640	530
	3/28/95	**11.33**	**65.10**	**0**	**8015/8020**	**27,000**	**9,900**	**120**	**880**	**540**
B-6	5/9/89	12.11	60.55	0	8015/8020	26,000	120	110	250	1,300
	8/9/89	14.72	57.94	0	8015/8020	19,000	470	150	440	1,400
72.66	11/9/89	13.85	58.81	0	8015/8020	13,000	70	36	36	440
	2/8/90	7.73	64.93	0	8015/8020	2,900	16	5	10	58
	5/10/90	—	—	—	—	—	—	—	—	—
	8/9/90	14.51	58.15	0	8015/8020	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]	—	—	—	—	—	—	—	—	—

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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X
						<----------ppb---------->				
B-7	5/9/89	14.73	60.67	0	8015/8020	210,000	13,000	19,000	2,000	20,000
	8/9/89	16.36	59.04	0	8015/8020	672,000	8,7000	17,000	2,700	30,000
75.40	11/9/89	16.64	58.76	0	8015/8020	150,000	7,000	12,000	1,800	16,000
	2/8/90	15.69	59.71	0	8015/8020	41,000	2,500	6,900	1,100	11,000
	5/10/90	---	---	---	---	---	---*	---	---	---
	8/9/90	16.31	59.09	0	8015/8020	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	8015/8020	280	2.7	2.4	3	12
70.07	3/19/93	9.97	60.10	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	6/10/93	10.98	59.09	0	8015/8020	<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	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/9/94	10.67	59.40	0	8015/8020	<50	<0.5	0.7	<0.5	0.7
	9/21/94	12.29	57.78	0	8015/8020	<50	2.5	<0.5	1.0	<0.5
	12/20/94	15.53	54.54	0	8015/8020	<50	0.5	<0.5	<0.5	<0.5
	3/28/95	**8.45**	**61.62**	**0**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
F	5/9/89	18.70	53.31	0	8015/8020	<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	8015/8020	<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	---	---	---	8015/8020	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	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	5/1/92	Dry	---	---	---	---	---	---	---	
71.72	11/18/92	14.85	56.87	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/19/93	14.25	57.47	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	6/10/93	13.92	57.80	0	8015/8020	<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	8015/8020	<50	<0.5	<0.5	<0.5	<0.5

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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X
						<----------ppb---------->				
F	3/9/94	12.99	58.73	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
(cont)	9/21/94	16.30	55.42	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	12/20/94	12.57	59.15	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/28/95	**8.95**	**62.77**	**0**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
EA-1	5/9/89	14.56	59.38	0	8015/8020	<500	<0.5	<0.5	<0.5	<0.5
	8/9/89	16.09	57.85	0	8015/8020	<500	<0.5	<0.5	<0.5	<0.5
73.94	11/9/89	15.84	58.10	0	8015/8020	<500	<0.5	<0.5	<0.5	<0.5
	2/8/90	15.05	58.89	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6
	5/10/90	15.65	58.29	0	8015/8020	<50	1	0.3	<0.3	<0.6
	8/9/90	15.67	58.27	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6
	11/13/90	16.32	57.62	0	8015/8020	<50	<0.4	<0.3	<0.3	<0.4
	3/27/91	—	—	—	8015/8020	<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	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	8/21/91	15.99	57.95	0	8015/8020	<50	<0.4	<0.3	<0.3	<0.4
	11/08/91	16.13	57.81	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	2/13/92	15.10	58.84	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	5/1/92	18.80	55.14	0	8015/8020	<50	2.7	<0.5	<0.5	<0.5
71.85	11/18/92	15.97	55.88	0	8015/8020	<10	<0.3	<0.3	<0.3	<0.5
	3/19/93	13.66	58.19	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	6/10/93	14.71	57.14	0	8015/8020	<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	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/9/94	14.38	57.47	0	8015/8020	<50	<0.5	1.0	<0.5	<0.5
	9/21/94	16.12	55.73	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	12/20/94	14.05	57.80	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/28/95	**12.05**	**59.80**	**0**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
EA-2	5/9/89	15.95	59.29	0	8015/8020	760	<0.5	<0.5	1.1	<0.5
	8/9/89	17.45	57.79	0	8015/8020	<500	<0.5	<0.5	<0.5	<0.5
75.24	11/9/89	17.41	57.83	0	8015/8020	<500	<0.5	1	<0.5	<0.5
	2/8/90	16.57	58.67	0	8015/8020	190	<0.3	<0.3	<0.3	<0.6
	5/10/90	17.12	58.12	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6
	8/9/90	17.20	58.04	0	8015/8020	120	<0.3	<0.3	<0.3	<0.6
	11/13/90	17.88	57.36	0	8015/8020	160	<0.4	1	<0.3	<0.4
	3/27/91	—	—	—	8015/8020	110	<0.5	<0.5	<0.5	<0.5
	4/5/91	15.54	59.70	0	—	—	—	—	—	—

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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X
						<----------ppb---------->				
EA-2	6/19/91	17.07	58.17	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
(cont)	8/21/91	17.46	57.78	0	8015/8020	70	0.8	1.4	<0.3	<0.4
	11/8/91	17.58	57.66	0	8015/8020	<50	<0.5	0.7	<0.5	<0.5
	2/13/92	16.69	58.55	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	5/1/92	16.16	59.08	0	8015/8020	340	<0.5	2.6	0.7	<0.5
76.24	11/18/92	17.61	58.63	0	8015/8020	450	<0.5	3.3	<0.5	0.8
	3/19/93	15.00	61.24	0	8015/8020	450	<0.5	2.3	0.6	<1.5
	6/10/93	16.08	60.16	0	8015/8020	250	<0.5	1.3	<0.5	<1.5
	9/8/93	17.07	59.17	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	12/21/93	16.60	59.64	0	8015/8020	170	<0.5	1.3	<0.5	<0.5
	3/9/94	15.83	60.41	0	8015/8020	200	1.8	1.4	<0.5	<0.5
	9/21/94	17.60	58.64	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	12/20/94	15.53	60.71	0	8015/8020	950	31	15	1.7	<0.5
	3/28/95	**13.28**	**62.96**	**0**	**8015/8020**	**71**	**2.0**	**0.6**	**<0.5**	**<0.5**
Trip Blank	5/9/89	—	—	—	8015/8020	<500	<0.5	<0.5	<0.5	<0.5
TBLB	8/9/89	—	—	—	8015/8020	<500	<0.5	<0.5	<0.5	<0.5
	11/9/89	—	—	—	8015/8020	<500	<0.5	<0.5	<0.5	<0.5
	2/8/90	—	—	—	8015/8020	<50	<0.3	<0.3	<0.3	<0.6
	5/10/90	—	—	—	8015/8020	<50	<0.3	<0.3	<0.3	<0.6
	8/9/90	—	—	—	8015/8020	<50	<0.3	<0.3	<0.3	<0.6
	11/13/90	—	—	—	8015/8020	<50	<0.4	<0.3	<0.3	<0.4
	3/27/91	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	6/19/91	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	8/21/91	—	—	—	8015/8020	<50	<0.4	<0.3	<0.3	<0.4
	11/8/91	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	2/13/92	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	5/1/92	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	11/18/92	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/19/93	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	6/10/93	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	9/8/93	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	12/21/93	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/9/94	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	9/21/94	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	12/20/94	—	—	—	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/28/95	—	—	—	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

Table 1. Water Level Data and Groundwater Analytic 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
TPPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
ppb = Parts per billion
--- = Not analyzed/not applicable

ANALYTIC METHODS

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

NOTES:

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

Analytic 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.

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-3	3/28/95	1.54	2.0

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.

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No 81030

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 Consultant Project Number 5127.80 Consultant Name Gettler-Ryan Address 6747 Sierra Ct, Ste J, Dublin 94568 Project Contact (Name) Argy Leyton (Phone) 510 551-7555 (Fax Number) 510 551-7888	Chevron Contact (Name) Mark Miller (Phone) 842-8134 Laboratory Name Superior Laboratory Release Number 2719110 Samples Collected by (Name) Ronald Neal & Frank Cline Collection Date 3-28-95 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)	BTEX + TPH GAS (8020 + 8015)	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 DO NOT BILL TB-LB ANALYSIS
F		3	W	G	1328	HCL	Y	X												ANALYZE
E					1333			X												
EA-1					1342			X												
EA-2		2			1413			X												
B-1		3			1425			X												
B-2					1430			X												
B-4		↓	↓	↓	1455	↓	↓	X												↓
TBLB		2	W	G	—	HCL	Y	X												

Please initial: g
Samples Stored in ice: yes Cold Hand delivered
[illegible]
[illegible]
VOA's without headspace
Comments:

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Turn Around Time (Circle Choice)
[signature]	GR	1642 3/31/95				24 Hrs. 48 Hrs. 3/31/95 5 Days 10 Days **As Contracted** (circled)
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) [signature]		Date/Time 3/31/95 1642	

Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

GETTLER RYAN INC.
6747 SIERRA CT, SUITE G
DUBLIN, CA 94568

Attn: ARGY LEYTON

Date: April 18, 1995

Laboratory Number : 81030

Project Number/Name : 5127.80

This report has been reviewed and

approved for release.

Christine Hem for

Senior Chemist
Account Manager

GETTLER RYAN INC.
Attn: ARGY LEYTON

Project 5127.80
Reported on April 12, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 81030

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
F	03/28/95	03/31/95	04/08/95	04/08/95	BD081.05	01
E	03/28/95	03/31/95	04/08/95	04/08/95	BD081.05	02
EA-1	03/28/95	03/31/95	04/08/95	04/08/95	BD081.05	03
EA-2	03/28/95	03/31/95	04/08/95	04/08/95	BD081.05	04
B-1	03/28/95	03/31/95	04/08/95	04/08/95	BD081.05	05
B-2	03/28/95	03/31/95	04/10/95	04/10/95	BD101.05	06
B-4	03/28/95	03/31/95	04/10/95	04/10/95	BD101.05	07
TB-LB	03/28/95	03/31/95	04/08/95	04/08/95	BD081.05	08

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BD101.05-01	Method Blank	MB	Water	04/10/95	04/10/95
BD101.05-02	MW-8	MS 81029-01	Water	04/10/95	04/10/95
BD101.05-03	MW-8	MSD 81029-01	Water	04/10/95	04/10/95

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

GETTLER RYAN INC.
Attn: ARGY LEYTON

Project 5127.80
Reported on April 12, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
81030-01	F	Water	1.0	-
81030-02	E	Water	1.0	-
81030-03	EA-1	Water	1.0	-
81030-04	EA-2	Water	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	81030-01 Conc. ug/L	RL	81030-02 Conc. ug/L	RL	81030-03 Conc. ug/L	RL	81030-04 Conc. ug/L	RL
Gasoline_Range	ND	50	ND	50	ND	50	71	50
Benzene	ND	0.5	ND	0.5	ND	0.5	2.0	0.5
Toluene	ND	0.5	ND	0.5	ND	0.5	0.6	0.5
Ethyl Benzene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Total Xylenes	ND	0.5	ND	0.5	ND	0.5	ND	0.5
>> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	107		106		106		111	

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Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
81030-05	B-1	Water	1.0	-
81030-06	B-2	Water	100.0	-
81030-07	B-4	Water	100.0	-
81030-08	TB-LB	Water	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	81030-05 Conc. ug/L	RL	81030-06 Conc. ug/L	RL	81030-07 Conc. ug/L	RL	81030-08 Conc. ug/L	RL
Gasoline_Range	160	50	76000	5000	27000	5000	ND	50
Benzene	38	0.5	20000	50	9900	50	ND	0.5
Toluene	2.1	0.5	920	50	120	50	ND	0.5
Ethyl Benzene	1.4	0.5	1200	50	880	50	ND	0.5
Total Xylenes	5.4	0.5	5200	50	540	50	ND	50
>> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	128		112		111		54	

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Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 81030
Method Blank(s)

	BD101.05-01 Conc. ug/L	RL
Gasoline_Range	ND	50
Benzene	ND	0.5
Toluene	ND	0.5
Ethyl Benzene	ND	0.5
Total Xylenes	ND	0.5
>> Surrogate Recoveries (%) <<		
Trifluorotoluene (SS)	103	

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Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 81030

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
			For Water Matrix (ug/L)			
			BD101.05 02 / 03 - Sample Spiked: 81029 - 01			
Gasoline_Range	ND	320	300/267	94/83	65-135	12
Benzene	ND	20	19/20	95/100	65-135	5
Toluene	ND	20	20/20	100/100	65-135	0
Ethyl Benzene	ND	20	20/20	100/100	65-135	0
Total Xylenes	ND	60	60/60	100/100	65-135	0
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				100/99	50-150	

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)
ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

GETTLER–RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY CHEVRON 9-1026 JOB # 5127.80

LOCATION 3701 BROADWAY DATE 28 MARCH 95

CITY OAKLAND TIME

Well ID. B~~B~~1 Well Condition GOOD

Well Diameter 4 in. Hydrocarbon Thickness — ft.

Total Depth 32.89 ft.

Depth to Liquid- 10.76 ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 22.13 x(VF) .66 = (Estimated Purge Volume) 14.6 43.8 gal.

Purging Equipment SUCTION

Sampling Equipment DISP. BAIL.

Starting Time 1401 Purging Flow Rate gpm.

(Estimated Purge Volume) gal. / (Purging Flow Rate) gpm. = (Anticipated Purging Time) min.

Time	pH	Conductivity	Temperature	Volume
1408	6.5	860	68.4	14
1415	6.5	890	68.4	28
1422	6.4	860	68.0	42

Did well dewater? If yes, time Volume

Sampling Time 1425 Weather Conditions

Analysis GAS-BTEX Bottles Used VOA

Chain of Custody Number

COMMENTS

FOREMAN ASSISTANT

GETTLER–RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY CHEVRON 9-1026 JOB # 5127.80

LOCATION 3701 BROADWAY DATE 28 MARCH 95

CITY OAKLAND TIME

Well ID. B2 Well Condition GOOD

Well Diameter 2 in. Hydrocarbon Thickness — ft.

Total Depth 18.8 ft.

Depth to Liquid- 12.3 ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 6.5 x(VF) .17 = (Estimated Purge Volume) 1.1 3.3 gal.

Purging Equipment SUCTION

Sampling Equipment DISP. BAIL

Starting Time 14:23 Purging Flow Rate gpm.

(Estimated Purge Volume) gal. / (Purging Flow Rate) gpm. = (Anticipated Purging Time) min.

Time	pH	Conductivity	Temperature	Volume
14:24	6.75	1898	71.5	1.3
14:25	6.62	1742	70.7	2.6
14:26	6.46	1892	73.2	3.9
14:30	6.50	1890	73.0	4.0

Did well dewater? NO If yes, time Volume

Sampling Time 14:30 Weather Conditions

Analysis GAS - BTEX Bottles Used VOA

Chain of Custody Number

COMMENTS

FOREMAN ASSISTANT

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING
FIELD DATA SHEET

COMPANY CHEVRON 9-1026 JOB # 5127.80

LOCATION 3701 BROADWAY DATE 28 MARCH 95

CITY OAKLAND TIME

Well ID. B4 Well Condition GOOD

Well Diameter 2 in. Hydrocarbon Thickness — ft.

Total Depth 19.27 ft.

Depth to Liquid- 11.33 ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 7.94 x(VF) .17 = (Estimated Purge Volume) 1.3 3.9 gal.

Purging Equipment SUCTION

Sampling Equipment DISP. BAIL.

Starting Time 1450 Purging Flow Rate gpm.

(Estimated Purge Volume) gal. / (Purging Flow Rate) gpm. = (Anticipated Purging Time) min.

Time	pH	Conductivity	Temperature	Volume
1451	6.6	1710		
1452	6.5	1720		
1453	6.6	1700		

Did well dewater? If yes, time Volume

Sampling Time 1455 Weather Conditions

Analysis GAS - BTEX Bottles Used VOA

Chain of Custody Number

COMMENTS

FOREMAN RON NEAL ASSISTANT

GETTLER–RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY CHEVRON 9-1026 JOB # 5127.80

LOCATION 3701 BROADWAY DATE 28 MARCH 95

CITY OAKLAND TIME

Well ID. E Well Condition GOOD

Well Diameter 2 in. Hydrocarbon Thickness — ft.

Total Depth 33 ft.

Depth to Liquid- 8.45 ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 24.55 x(VF) .17 = (Estimated Purge Volume) 4.17 12.5 gal.

Purging Equipment SUCTION

Sampling Equipment DISP. BAIL

Starting Time 1324 Purging Flow Rate 2 gpm.

(Estimated Purge Volume) gal. / (Purging Flow Rate) gpm. = (Anticipated Purging Time) min.

Time	pH	Conductivity	Temperature	Volume
12:26	6.5	940	69.0	4
12:28	6.7	970	68.8	8
12:30	6.5	980	68.7	12

Did well dewater? If yes, time Volume

Sampling Time 1333 Weather Conditions

Analysis GAS - BTEX Bottles Used VOA

Chain of Custody Number

COMMENTS

FOREMAN ASSISTANT

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING
FIELD DATA SHEET

COMPANY CHEVRON 9-1026 JOB # 5127-80

LOCATION 3701 BROADWAY DATE 28 MARCH 95

CITY OAKLAND TIME

Well ID. F Well Condition Good

Well Diameter 2 in. Hydrocarbon Thickness — ft.

Total Depth 21.1 ft.

Depth to Liquid- 8.95 ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 12.15 x(VF) 0.17 = (Estimated Purge Volume) 2.1 6.3 gal.

Purging Equipment SUCTION

Sampling Equipment Disposable Bailer

Starting Time 13:18 Purging Flow Rate gpm.

(Estimated Purge Volume) gal. / (Purging Flow Rate) gpm. = (Anticipated Purging Time) min.

Time	pH	Conductivity	Temperature	Volume
13:20	6.67	1118	68.1	2.2
13:22	7.10	1132	68.4	4.4
13:24	7.24	1135	68.4	6.6
~~13:26~~ 13:28	7.20	1132	68.3	7.0

Did well dewater? NO If yes, time Volume

Sampling Time 13:28 Weather Conditions

Analysis GAS-BTEX Bottles Used VOA

Chain of Custody Number

COMMENTS

FOREMAN ASSISTANT

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING
FIELD DATA SHEET

COMPANY CHEVRON - 9-1026 JOB # 5127.80

LOCATION 3701 BROADWAY DATE 28 MARCH 95

CITY OAKLAND TIME 11:30

Well ID. EA1 Well Condition GOOD

Well Diameter 4 in. Hydrocarbon Thickness — ft.

Total Depth 12.05 ft.

Depth to Liquid- 27.34 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	8" = 2.60	10" = 4.10	12" = 5.80

(# of casing volumes) 3 x 15.29 x(VF) .66 = (Estimated Purge Volume) 10.0 30 gal.

Purging Equipment STACK PUMPS

Sampling Equipment DISPOSABLE BAILER

Starting Time 13:30 Purging Flow Rate 3.3 gpm.

(Estimated Purge Volume) ____ gal. / (Purging Flow Rate) ____ gpm. = (Anticipated Purging Time) ____ min.

Time	pH	Conductivity	Temperature	Volume
13:33	6.70	1021	68.4	10
13:36	6.56	1022	68.2	20
13:39	6.76	1023	68.1	30
13:42	6.75	1020	68.0	

Did well dewater? NO If yes, time ____ Volume ____

Sampling Time 13:42 Weather Conditions ____

Analysis GAS-BTEX Bottles Used VOA

Chain of Custody Number ____

COMMENTS ____

FOREMAN [signature] ASSISTANT ____

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY CHEVRON 9-1026 JOB # 5127.80

LOCATION 3701 BROADWAY DATE 28 MARCH 95

CITY OAKLAND TIME

Well ID. EA2

Well Condition GOOD

Well Diameter 4 in.

Hydrocarbon Thickness — ft.

Total Depth 29.8 ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

Depth to Liquid- 13.28 ft.

(# of casing volumes) 3 x 16.52 x(VF) .66 = (Estimated Purge Volume) 10.033 gal.

Purging Equipment Suction

Sampling Equipment Disposable Bailer

Starting Time 13:58 Purging Flow Rate ~~3.5~~ 3.7 gpm.

(Estimated Purge Volume) gal. / (Purging Flow Rate) gpm. = (Anticipated Purging Time) min.

Time	pH	Conductivity	Temperature	Volume
14:01	6.26	713	67.4	12 Ltrs
14:04	6.37	697	67.3	22.2
14:07	6.38	733	67.3	33.5
14:13	6.40	730	67.4	34 gals

Did well dewater? NO If yes, time Volume

Sampling Time 14:13 Weather Conditions Sunny Clear

Analysis GAS - BTEX Bottles Used VOA

Chain of Custody Number

COMMENTS

FOREMAN FIR ASSISTANT