Chevron U.S.A. Inc.
2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500
Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

91 OCT -9 PM 2:08

Marketing Department

October 7, 1991

Mr. Rafat Shahid
Alameda County Health Care Services
80 Swan Way, Room 200
Oakland, CA 94621

Re: Former Chevron Service Station #9-1026
3701 Broadway, Oakland 94611 former GW project

Dear Mr. Shahid:

Enclosed we are forwarding the Quarterly Ground Monitoring Report dated September 30, 1991, prepared by our consultant Weiss Associates for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline and BTEX. Benzene concentrations ranged from non-detectable to 28,000 ppb. Depth to ground water was measured at approximately 14 to 20-feet below grade, and the direction of flow fluctuates from the southwest to the south.

The deepening of existing monitor wells F and B-1 has been held up while necessary documents are compiled per the City of Oakland encroachment permit requirements. We anticipate the reinstallation of these wells within approximately two (2) months. We are in the process of finalizing a groundwater remediation work plan and will forward to your office upon completion for your review and concurrence.

Chevron will continue to monitor this site and report findings on a quarterly basis.

If you have any questions or comments, please do not hesitate to contact me at (510) 842-9581.

Very truly yours,
CHEVRON U.S.A. INC.

Nancy Vukelich
Environmental Engineer

Enclosure

cc: Mr. Eddie So, RWQCB-Bay Area
Ms. B.C. Owen
File (9-1026Q1)

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

WEISS ASSOCIATES
Geologic and Environmental Services
Fax: 415-547-5043 Phone: 415-547-5420
5500 Shellmound Street, Emeryville, CA 94608

September 30, 1991

Nancy Vukelich
Chevron U.S.A., Inc.
P.O. Box 5004
San Ramon, CA 94583-0804

Re: Third Quarter 1991
Ground Water Monitoring Report
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California
WA Job #4-418-01

Dear Ms. Vukelich:

As you requested, Weiss Associates (WA) is providing this Ground Water Monitoring Report for the site referenced above (Figure 1). WA sampled the ground water monitoring wells (Figure 2) on August 21, 1991, in accordance with the requirements and procedures of the California Regional Water Quality Control Board - San Francisco Bay Region and local regulatory agencies.

SAMPLING PROCEDURES

Prior to purging and sampling the wells, WA measured the depth to ground water in each well to the nearest 0.01 ft using an electric sounder (Table 1). We also checked the wells for floating hydrocarbons or sheen. No floating hydrocarbons were detected in any well.

WA collected ground water samples for analysis after purging at least 3 well-casing volumes of ground water from each well. Each sample was decanted from a steam-cleaned or dedicated bailer into the appropriate clean sample containers and delivered to a California-certified laboratory following proper sample preservation and chain-of-custody procedures. Purged ground water was stored onsite in DOT-approved 55-gallon drums until properly disposed of offsite.

MONITORING AND ANALYTIC RESULTS

The top-of-casing elevation, depth to ground water and the ground water elevation for each well is presented in Table 1. The ground water elevation contours and ground water flow direction are shown on Figure 2.

Current and historical ground water analytic results are summarized in Table 2. The water sample collection records, and the analytic report and chain-of-custody forms are included as Attachments A and B, respectively. Ground water elevation contour maps for the past year are included in Figure 3.

PROPOSED WORK SCHEDULE

The Fourth Quarter 1991 ground water sampling is scheduled for November 13, 1991. We will submit a report presenting the field and analytic data by January 1992.

We appreciate this opportunity to provide hydrogeologic consulting services to Chevron USA and trust that this submittal meets your needs. Please call if you have any questions regarding this report.

Sincerely,
Weiss Associates

Mariette Shin
Staff Geologist

REGISTERED GEOLOGIST
JAMES W. CARMODY
No. EG 1576
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

James W. Carmody, C.E.G.
Senior Project Hydrogeologist

MMS/JWC:cr

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Attachments A - Water Sample Collection Records
B - Analytic Report and Chain-of-Custody Forms

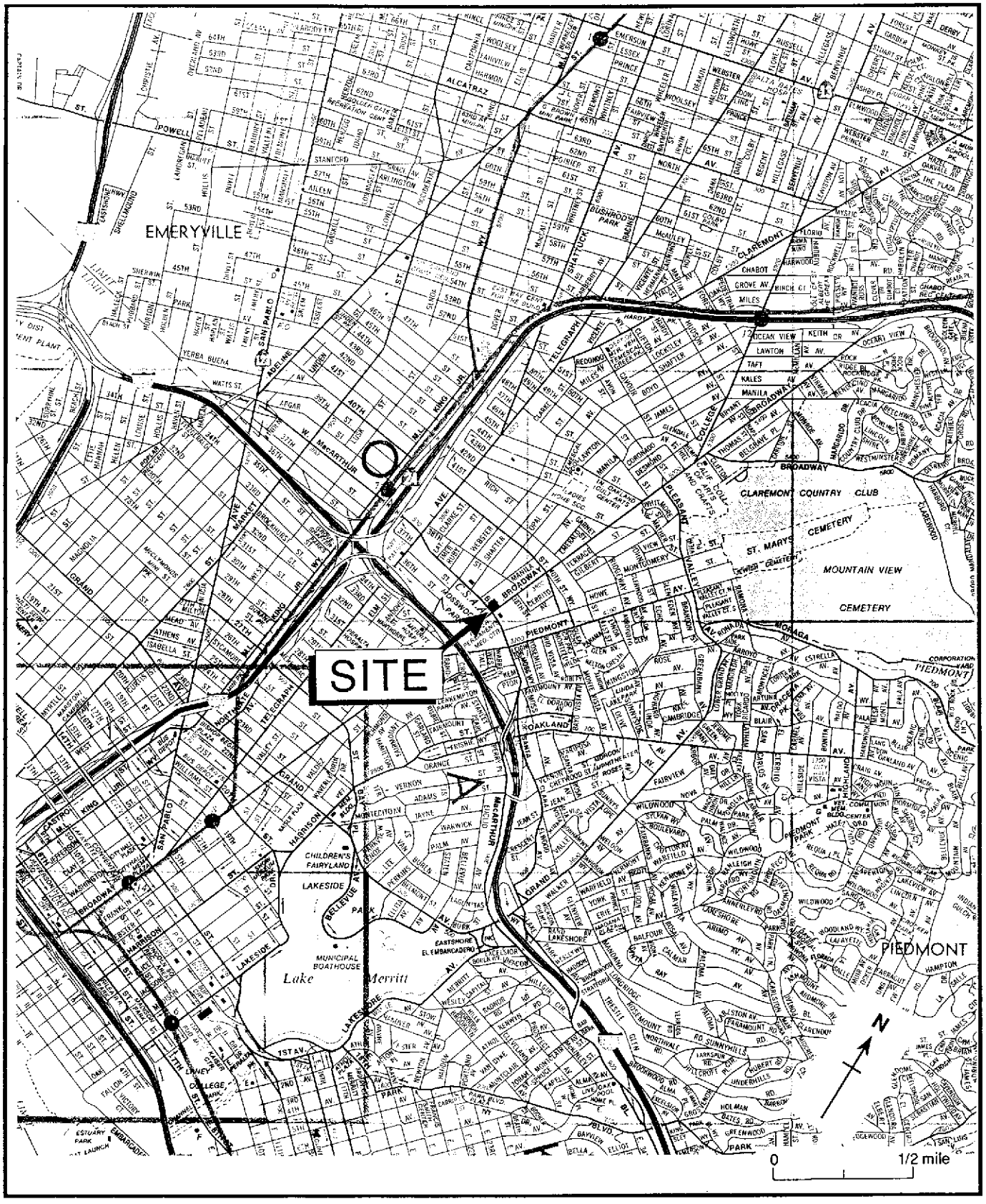

Figure 1. Site Location Map - Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California

4/8/91

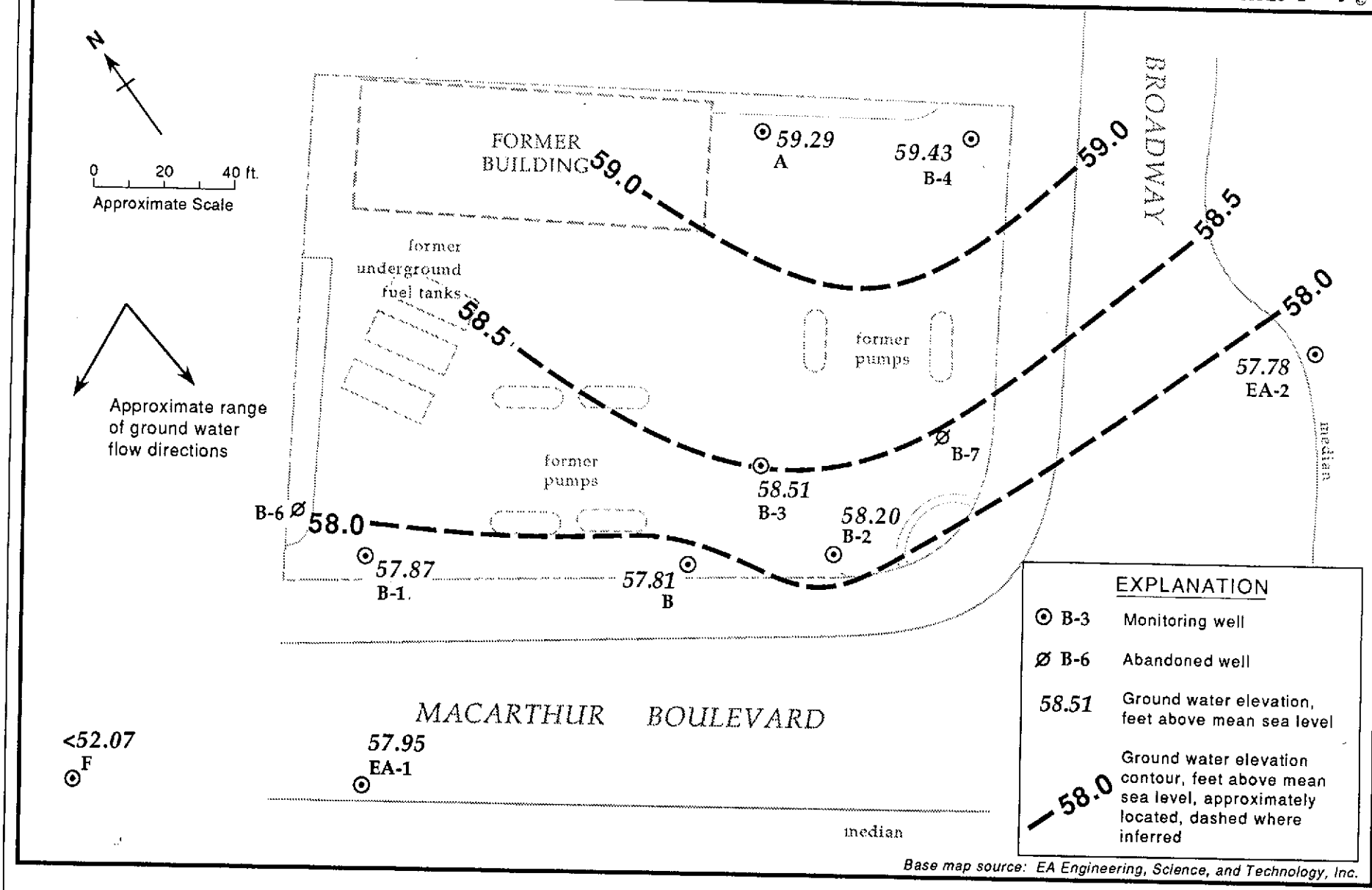

Figure 2. Monitoring Well Locations and Ground Water Contours - August 21, 1991 - Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California

9/30/91

TABLE 1. Ground Water Elevation Data, Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Thickness of Floating Hydrocarbons in Well (ft)	Ground Water Elevation (ft above msl)
A	05/10/89	75.28[a]	13.92		61.36
	08/09/89		15.62		59.66
	11/09/89		15.95		59.33
	02/08/90		14.73		60.55
	05/10/90		15.48		59.80
	08/09/90		15.66		59.62
	11/13/90		16.48		58.80
	04/05/91		13.22		62.06
	06/19/91		15.37		59.91
	08/21/91		**15.99**		**59.29**
B	05/10/89	73.39[a]	13.97	.20	59.58[b]
	08/09/89		15.69	.20	57.86[b]
	11/09/89		15.29	.08	58.16[b]
	02/08/90		14.46		58.93
	05/10/90		15.07		58.32
	08/09/90		15.12		58.27
	11/13/90		15.76		57.63
	04/05/91		13.38		60.01
	06/19/91		15.14		58.25
	08/21/91		**15.58**		**57.81**
B-1	05/10/89	71.77[a]	12.58		59.19
	08/09/89		14.09		57.68
	11/09/89		14.06		57.71
	02/08/90		12.65		59.12
	05/10/90		13.62		58.15
	08/09/90		13.87		57.90
	11/13/90		14.38		57.39
	04/05/91		11.73		60.04
	06/19/91		13.56		58.21
	08/21/91		**13.90**		**57.87**
B-2	05/10/89	74.51[a]	14.58		59.93
	08/09/89		16.06		58.45
	11/09/89		16.95		57.56
	02/08/90		15.56		58.95
	05/10/90		15.94		58.57
	08/09/90		15.97		58.54
	11/13/90		16.70		57.81
	04/05/91		14.20		60.31
	06/19/91		15.83		58.68
	08/21/91		**16.31**		**58.20**

-- Table 1 continues on next page --

TABLE 1. Ground Water Elevation Data, Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Thickness of Floating Hydrocarbons in Well (ft)	Ground Water Elevation (ft above msl)
B-3	05/10/89	74.12[a]	14.02		60.01
	08/09/89		15.38		58.74
	11/09/89		15.55	.05	58.61[b]
	02/08/90		14.68	<0.01	59.44[b]
	05/10/90		15.15	.02	58.99[b]
	08/09/90		15.27	<0.01	58.85[b]
	11/13/90		16.04	.06	58.13[b]
	04/05/91		13.30	<0.01	60.82[b]
	06/19/91		15.16		58.96
	08/21/91		**15.61**		**58.51**
B-4	05/10/89	76.43[a]	14.93		61.50
	08/09/89		16.65		59.78
	11/09/89		16.99		59.44
	02/08/90		16.05		60.38
	05/10/90		16.49		59.94
	08/09/90		16.64		59.79
	11/13/90		17.42		59.01
	04/05/91		14.66		61.77
	06/19/91		16.48		59.95
	08/21/91		**17.00**		**59.43**
B-6	05/10/89	72.66[a]	12.11		60.55
	08/09/89		14.72		57.94
	11/09/89		13.85		58.81
	02/08/90		7.73		64.93
	05/10/90		[c]		
	08/09/90		14.51		58.15
	11/13/90		14.86		57.80
	04/05/91		10.43		62.23
	06/19/91[c]		---		---
B-7	05/10/89	75.40[a]	14.73		60.67
	08/09/89		16.36		59.04
	11/09/89		16.64		58.76
	02/08/90		15.69		59.71
	05/10/90		[c]		
	08/09/90		16.31		59.09
	11/13/90		17.09		58.31
	04/05/91		14.36		61.04
	06/19/91[c]		---		---

-- Table 1 continues on next page --

TABLE 1. Ground Water Elevation Data, Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Thickness of Floating Hydrocarbons in Well (ft)	Ground Water Elevation (ft above msl)
EA-1	05/10/89	73.94[a]	14.56		59.38
	08/09/89		16.09		57.85
	11/09/89		15.84		58.10
	02/08/90		15.05		58.89
	05/10/90		15.65		58.29
	08/09/90		15.67		58.27
	11/13/90		16.32		57.62
	04/05/91		14.03		59.91
	06/19/91		15.56		58.38
	08/21/91		**15.99**		**57.95**
EA-2	05/10/89	75.24[a]	15.95		59.29
	08/09/89		17.45		57.79
	11/09/89		17.41		57.83
	02/08/90		16.57		58.67
	05/10/90		17.12		58.12
	08/09/90		17.20		58.04
	11/13/90		17.88		57.36
	04/05/91		15.54		59.70
	06/19/91		17.07		58.17
	08/21/91		**17.46**		**57.78**
F	05/10/89	72.01[a]	18.70		53.31
	08/09/89		19.03		52.98
	11/09/89		19.02		52.99
	02/08/90		18.70		53.31
	05/10/90		18.98		53.03
	08/09/90		18.95		53.06
	11/13/90		19.10		52.91
	04/05/91		---[d]		---
	06/19/91		18.95		53.06
	08/21/91		**>19.94**		**<52.07**

[a] = Top-of-Casing surveyed on 02/08/90
[b] = Ground water elevation adjusted for floating hydrocarbons in the well by the relation: Corrected ground water elevation = top-of-casing - depth to water + (0.8 x hydrocarbon thickness)
[c] = Well abandoned in May 1991.
[d] = Water level not recorded

TABLE 2. Analytic Results for Ground Water - Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California

Well ID	Date Sampled	Depth-to Water (ft)	Analytical Lab	TPH-G	B	E	T	X
				<----------parts per billion (µg/L) ---------->				
A	05-09-89	13.92	SAL	11,000	260	94	<2	230
	08-09-89	15.62	SAL	12,000	370	100	<1.5	240
	11-09-89	15.95	SAL	16,000	690	180	10	350
	02-08-90	14.73	GTEL	14,000	600	120	7	270
	05-10-90	15.48	GTEL	16,000	840	140	4.8	340
	08-09-90	15.66	GTEL	17,000	510	170	40.0	280
	11-13-90	16.48	CEC	9,000	570	86	3.1	170
	03-27-91	13.22	SAL	8,000	660	110	<5	250
	06-19-91	15.37	SAL	8,900	740	120	<3	280
	08-21-91	**15.99**	**CEC**	**6,800**	**620**	**85**	**23**	**200**
B	05-09-89 [a]	13.97	---	---	---	---	---	---
	08-09-89 [a]	15.69	---	---	---	---	---	---
	11-09-89 [a]	15.29	---	---	---	---	---	---
	02-08-90 [b]	14.46	---	---	---	---	---	---
	05-10-90 [c]	15.07	---	---	---	---	---	---
	08-09-90 [a]	15.12	---	---	---	---	---	---
	11-13-90 [d]	15.76	---	---	---	---	---	---
	03-27-91 [d]	13.38	---	---	---	---	---	---
	06-19-91	15.14	SAL	26,000	7,100	430	370	1,000
	08-21-91	**15.58**	**CEC**	**16,000**	**4,900**	**390**	**270**	**640**
B-1	05-10-89	12.58	SAL	16,000	2,300	81	260	740
	08-09-89	14.09	SAL	12,000	2,600	100	340	870
	11-09-89	14.06	SAL	17,000	340	110	140	760
	02-08-90	12.65	GTEL	5,500	70	17	19	150
	05-10-90	13.62	GTEL	18,000	770	73	110	600
	08-09-90	13.87	GTEL	82,000	750	95	66	980
	11-13-90	14.38	CEC	43,000	1,300	74	120	760
	03-27-91	11.73	SAL	18,000	580	94	92	770
	06-19-91	13.56	SAL	21,000	910	96	56	810
	08-21-91[e]	**13.90**	**CEC**	**50,000**	**2,400**	**300**	**610**	**1,800**
B-2	05-09-89	14.58	SAL	170,000	30,000	2,300	8,400	12,000
	08-10-89	16.06	SAL	60,000	29,000	2,400	8,700	12,000
	11-09-89	16.95	SAL	110,000	32,000	2,800	5,500	12,000
	02-08-90	15.56	GTEL	67,000	28,000	2,300	5,900	11,000
	05-10-90	15.94	GTEL	69,000	24,000	2,000	4,800	11,000
	08-09-90	15.97	GTEL	100,000	33,000	2,100	4,000	12,000
	11-13-90	16.70	CEC	110,000	33,000	2,900	4,300	13,000
	03-27-91	14.20	SAL	160,000	26,000	2,600	3,200	15,000
	06-19-91	15.83	SAL	100,000	22,000	2,000	2,500	11,000
	08-21-91	**16.31**	**CEC**	**80,000**	**28,000**	**2,400**	**2,800**	**12,000**

-- Table 2 continues on next page --

TABLE 2. Analytic Results for Ground Water - Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California (continued)

Well ID	Date Sampled	Depth-to Water (ft)	Analytical Lab	TPH-G	B	E	T	X
				<----------parts per billion (µg/L) ---------->				
B-3	05-10-89	14.02	SAL	70,000	12,000	1,400	9,500	8,900
	08-09-89 [a]	15.38	---	---	---	---	---	---
	11-09-89 [a]	15.55	---	---	---	---	---	---
	02-08-90 [a]	14.68	---	---	---	---	---	---
	05-10-90 [a]	15.15	---	---	---	---	---	---
	08-09-90 [a]	15.27	---	---	---	---	---	---
	11-13-90 [a]	16.04	---	---	---	---	---	---
	03-27-91 [a]	13.30	---	---	---	---	---	---
	06-19-91	15.16	SAL	260,000	20,000	2,200	9,000	16,000
	08-21-91	**15.61**	**CEC**	**70,000**	**28,000**	**1,800**	**11,000**	**11,000**
B-4	05-10-89	14.93	SAL	3,600	840	120	34	200
	08-09-89	16.65	SAL	<500	4,200	370	130	260
	08-09-89 (dup)	16.65	SAL	5,000	4,200	400	83	250
	11-09-89	16.99	SAL	14,000	6,000	530	70	300
	02-08-90	16.05	GTEL	12,000	5,400	460	130	320
	05-10-90	16.49	GTEL	16,000	7,400	530	120	350
	08-09-90	16.64	GTEL	21,000	7,000	550	100	320
	11-13-90	17.42	CEC	17,000	8,500	500	120	300
	03-27-91	14.66	SAL	14,000	7,700	610	75	210
	06-19-91	16.48	SAL	16,000	7,800	550	110	340
	08-21-91	**17.00**	**CEC**	**18,000**	**11,000**	**450**	**110**	**340**
B-6	05-09-89	12.11	SAL	26,000	120	250	110	1,300
	08-09-89	14.72	SAL	19,000	470	440	150	1,400
	11-09-89	13.85	SAL	13,000	70	36	36	440
	02-08-90	7.73	GTEL	2,900	16	10	5	58
	05-10-90 [c]	---	---	---	---	---	---	---
	08-09-90	14.51	GTEL	14,000	55	130	3	500
	11-13-90 [d]	14.86	---	---	---	---	---	---
	03-27-91 [d]	10.43	---	---	---	---	---	---
	06-19-91 [f]	---	---	---	---	---	---	---
B-7	05-10-89	14.73	SAL	210,000	13,000	2,000	19,000	20,000
	08-09-89	16.36	SAL	672,000	8,700	2,700	17,000	30,000
	11-09-89	16.64	SAL	150,000	7,000	1,800	12,000	16,000
	02-08-90	15.69	GTEL	41,000	2,500	1,100	6,900	11,000
	05-10-90 [c]	---	---	---	---	---	---	---
	08-09-90	16.31	GTEL	50,000	1,100	640	3,900	7,200
	11-13-90 [d]	17.09	---	---	---	---	---	---
	03-27-91 [d]	14.36	---	---	---	---	---	---
	06-19-91 [f]	---	---	---	---	---	---	---

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TABLE 2. Analytic Results for Ground Water - Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California (continued)

Well ID	Date Sampled	Depth-to Water (ft)	Analytical Lab	TPH-G	B	E	T	X
				<----------parts per billion (µg/L) ---------->				
EA-1	05-09-89	14.56	SAL	<500	<0.5	<0.5	<0.5	<0.5
	08-09-89	16.09	SAL	<500	<0.5	<0.5	<0.5	<0.5
	11-09-89	15.84	SAL	<500	<0.5	<0.5	<0.5	<0.5
	02-08-90	15.05	GTEL	<50	<0.3	<0.3	<0.3	<0.6
	05-10-90	15.65	GTEL	<50	1	<0.3	<0.3	<0.6
	08-09-90	15.67	GTEL	<50	<0.3	<0.3	<0.3	<0.6
	11-13-90	16.32	CEC	<50	<0.4	<0.3	<0.3	<0.4
	03-27-91	14.03	SAL	<50	0.7	<0.5	<0.5	<0.5
	06-19-91	15.56	SAL	<50	<0.5	<0.5	<0.5	<0.5
	08-21-91	**15.99**	**CEC**	**<50**	**<0.4**	**<0.3**	**<0.3**	**<0.4**
EA-2	05-09-89	15.95	SAL	760	<0.5	1.1	<0.5	<0.5
	08-09-89	17.45	SAL	<500	<0.5	<0.5	<0.5	<0.5
	11-09-89	17.41	SAL	<500	<0.5	<0.5	1	<0.5
	02-08-90	16.57	GTEL	190	<0.3	<0.3	<0.3	<0.6
	05-10-90	17.12	GTEL	<50	<0.3	<0.3	<0.3	<0.6
	08-09-90	17.20	GTEL	120	<0.3	<0.3	<0.3	<0.6
	11-13-90	17.88	CEC	160	<0.4	<0.3	1.0	<0.4
	03-27-91	15.54	SAL	110	<0.5	<0.5	<0.5	<0.5
	06-19-91	17.07	SAL	<50	<0.5	<0.5	<0.5	<0.5
	08-21-91	**17.46**	**CEC**	**70**	**0.8**	**<0.3**	**1.4**	**<0.4**
F	05-09-89	18.70	SAL	<500	<0.5	<0.5	0.6	1.0
	08-09-89 [g]	19.03	---	---	---	---	---	---
	11-09-89 [g]	19.02	---	---	---	---	---	---
	02-08-90	18.70	GTEL	<50	0.4	<0.3	0.3	<0.6
	05-10-90 [g]	18.98	---	---	---	---	---	---
	08-09-90 [g]	18.95	---	---	---	---	---	---
	11-13-90 [g]	19.10	---	---	---	---	---	---
	03-27-91	---	SAL	64	<0.5	<0.5	<0.5	1
	06-19-91 [g]	18.95	---	---	---	---	---	---
	08-21-91 [g]	**>19.94**	---	---	---	---	---	---
Travel Blank	05-10-89		SAL	<500	<0.5	<0.5	<0.5	<0.5
	08-09-89		SAL	<500	<0.5	<0.5	<0.5	<0.5
	11-09-89		SAL	<500	<0.5	<0.5	<0.5	<0.5
	02-08-90		GTEL	<50	<0.3	<0.3	<0.3	<0.6
	05-10-90		GTEL	<50	<0.3	<0.3	<0.3	<0.6
	08-09-90		GTEL	<50	<0.3	<0.3	<0.3	<0.6
	11-13-90		CEC	<50	<0.4	<0.3	<0.3	<0.4
	03-27-91		SAL	<50	<0.5	<0.5	<0.5	<0.5
	06-19-91		SAL	<50	<0.5	<0.5	<0.5	<0.5
	08-21-91		**CEC**	**<50**	**<0.4**	**<0.3**	**<0.3**	**<0.4**

-- Table 2 continues on next page --

TABLE 2. Analytic Results for Ground Water - Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California (continued)

Well ID	Date Sampled	Depth-to Water (ft)	Analytical Lab	TPH-G	B	E	T	X
				<----------parts per billion (µg/L) ---------->				
Bailer	05-10-89		SAL	<500	<0.5	<0.5	<0.5	<0.5
Blank	02-08-90		GTEL	<50	<0.3	<0.3	0.3	<0.6
	03-27-91		SAL	<50	<0.5	<0.5	<0.5	0.6
DHS MCLs				NE	1	680	100[h]	1,750

Abbreviations:

TPH-G = Total Petroleum Hydrocarbons as Gasoline by EPA Method 8015
B = Benzene by EPA Method 8020
E = Ethylbenzene by EPA Method 8020
T = Toluene by EPA Method 8020
X = Xylenes by EPA Method 8020
dup = Duplicate analysis
<n = Not detected at detection limit of n parts per billion
DHS MCLs = Department of Health Services Maximum Contaminant Level for Drinking Water
NE = Not established by DHS

Analytical Laboratory:

GTEL = GTEL Environmental Laboratories, Inc. of Concord, California
SAL = Superior Analytical Laboratories of San Francisco and Martinez, California
CEC = Clayton Environmental Consultants of Pleasanton, California

Notes:

[a] = Not sampled due to presence of floating hydrocarbons
[b] = Not sampled due to large volume of evacuation water necessary
[c] = Not sampled because screened interval of well needs to be assessed
[d] = Well was not sampled due to poor surface water seals
[e] = A groundwater sample was analyzed for Priority Pollutant Metals; concentrations were below detection limits.
[f] = Well abandoned in May 1991
[g] = Not sampled because of insufficient water in the well
[h] = DHS Recommended Action Level for Drinking Water, MCL not established

ATTACHMENT A

WATER SAMPLE COLLECTION RECORDS

WEISS ASSOCIATES

WATER SAMPLING DATA

Well Name A Date 8/21/91 Time of Sampling 1500
Job Name Chev. - Oakland III Job Number 4-418-01 Initials PC
Sample Point Description M (M = Monitoring Well)
Location NEXT TO VAN STROUGH OFFICE

WELL DATA: Depth to Water 15.99 ft (~~static~~, pumping) Depth to Product — ft.
Product Thickness — Well Depth ~~20.00~~ ft (spec) Well Depth 20.07 ft(sounded) Well Diameter 2 in
Initial Height of Water in Casing 4.07 ft. = volume 0.67 gal.
3 Casing Volumes to be Evacuated. Total to be evacuated 2.0 gal.

EVACUATION METHOD: Pump # and type — Hose # and type —
Bailer# and type tef lon Dedicated Y (Y/N)
Other —

Evacuation Time: Stop 1353
Start 1341
Total Evacation Time 12 min
Total Evacuated Prior to Sampling 2 gal.
Evacuation Rate .17 gal. per minute
Depth to Water during Evacuation — ft. — time
Depth to Water at Sampling 1823 ft. 1500 time
Evacuated Dry? YES After 1 gal. Time 1353
80% Recovery = 16.81 —
% Recovery at Sample Time 45 Time 1500

Formulas/Conversions
r = well radius in ft.
h = ht of water col in ft.
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft^3
→ V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V8 casing = 2.61 gal/ft

CHEMICAL DATA: Meter Brand/Number —
Calibration: — 4.0 — 7.0 — 10.0

Measured:	SC/µmhos	pH	T°C	Time	Volume Evacuated (gal.)
			N A		

SAMPLE: Color OFF CLEAR (CLOUDY) Odor —
Description of matter in sample: FLAKY MATERIAL
Sampling Method: Decanted from dedicated bailer
Sample Port: Rate — gpm Totalizer — gal.
Time —

# of Cont.	Sample ID	Cont. Type[1]	Vol[2]	Fil[3]	Ref[4]	Preservative (specify)	Analytic Method	Turn[5]	LAB
3	OB1-A	W/CV	40ml	N	Y	HCL	EPA 8015/8020	N	CLAYTON

1 Sample Type Codes: W = Water, S = Soil, Describe Other
Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other
Cap Codes: PT = Plastic, Teflon lined;
2 = Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)
5 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]

ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

WEISS ASSOCIATES

WATER SAMPLING DATA

Well Name B Date 8.21.91 Time of Sampling 350 PL / 550

Job Name OAKLAND III Job Number 4-418-01 Initials CC

Sample Point Description M (M = Monitoring Well)

Location ± 50 ft FROM BROADWAY/MACARTHUR ON MAC SIDEWALK

WELL DATA: Depth to Water 15.58 ft (static) pumping) Depth to Product — ft.

Product Thickness — Well Depth 34.50 ft (spec) Well Depth — ft(sounded) Well Diameter 4 in

Initial Height of Water in Casing 18.92 ft. = volume 12.35 gal.

3 Casing Volumes to be Evacuated. Total to be evacuated 37.06 gal.

EVACUATION METHOD: ~~N/A~~ Pump # and type — Hose # and type —

Bailer# and type 3" x 36" Dedicated N (Y/N)

Other SAMPLED W/ TEFLON BAILER # JT 1.5" x 24"

Evacuation Time: Stop 345 — —

Start 320 — —

Total Evacation Time 25

Total Evacuated Prior to Sampling 40 gal.

Evacuation Rate 1.6 gal. per minute

Depth to Water during Evacuation — ft. — time

Depth to Water at Sampling — ft. — time

Evacuated Dry? — After — gal. Time —

80% Recovery = —

% Recovery at Sample Time — Time —

Formulas/Conversions

r = well radius in ft.

h = ht of water col in ft.

vol. in cyl. = $\pi r^2 h$

7.48 gal/ft^3

V_2" casing = 0.163 gal/ft

V_3" casing = 0.367 gal/ft

V_4" casing = 0.653 gal/ft

$V_{4.5}$" casing = 0.826 gal/ft

V_6" casing = 1.47 gal/ft

V8 casing = 2.61 gal/ft

CHEMICAL DATA: Meter Brand/Number —

Calibration: — 4.0 — 7.0 — 10.0

Measured:	SC/µmhos	pH	T°C	Time	Volume Evacuated (gal.)
		N	NA		

SAMPLE: Color GREY Odor —

Description of matter in sample: GREY SILT

Sampling Method: Decanted from WA teflon bailer

Sample Port: Rate — gpm Totalizer — gal.

Time —

# of Cont.	Sample ID	Cont. Type[1]	Vol[2]	Fil[3]	Ref[4]	Preservative (specify)	Analytic Method	Turn[5]	LAB
3	OB1-B	W/cv	40ml	N	Y	HCL	EPA 8020/8015	N	CLAYTON

1 Sample Type Codes: W = Water, S = Soil, Describe Other
Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other
Cap Codes: PT = Plastic, Teflon lined;
2 = Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)
5 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]

ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

WEISS ASSOCIATES

WATER SAMPLING DATA

Well Name B-1 Date 8/21/91 Time of Sampling 16:14

Job Name Chev-Oakland III Job Number 4-418-01 Initials PC

Sample Point Description M (M = Monitoring Well)

Location Driveway to Val Strough Used Cars: MacArthur So. side.

WELL DATA: Depth to Water 13.90 ft (static, pumping) Depth to Product — ft.

Product Thickness — Well Depth 16.2 ft (spec) Well Depth 16.11 ft(sounded) Well Diameter 2 in

Initial Height of Water in Casing 2.21 ft. = volume .36 gal.

3 Casing Volumes to be Evacuated. Total to be evacuated 1.08 gal.

EVACUATION METHOD: Pump # and type — Hose # and type —

Bailer# and type WA* BK, 1½" x 60" PVC Dedicated N (Y/N)

Other Sampled with WA teflon bailer DD, 1½" x 24"

Evacuation Time: Stop 12:55

Start 12:54

Total Evacation Time 1min

Total Evacuated Prior to Sampling .5 gal.

Evacuation Rate .5 gal. per minute

Depth to Water during Evacuation — ft. — time

Depth to Water at Sampling 15.70 ft. 16:15 time

Evacuated Dry? Yes After .5 (10) gal. Time 12:55

80% Recovery = 14.34

% Recovery at Sample Time 19 Time 16:15

Formulas/Conversions

r = well radius in ft.

h = ht of water col in ft.

vol. in cyl. = $\pi r^2 h$

7.48 gal/ft^3

V_2" casing = 0.163 gal/ft

V_3" casing = 0.367 gal/ft

V_4" casing = 0.653 gal/ft

$V_{4.5}$" casing = 0.826 gal/ft

V_6" casing = 1.47 gal/ft

V8 casing = 2.61 gal/ft

CHEMICAL DATA: Meter Brand/Number —

Calibration: — 4.0 — 7.0 — 10.0

Measured:	SC/µmhos	pH	T°C	Time	Volume Evacuated (gal.)
		N/A			

SAMPLE: Color Grey Odor — Strong

Description of matter in sample: Dark Silt

Sampling Method: Decanted from WA teflon bailer #DD

Sample Port: Rate — gpm Totalizer — gal.

Time —

# of Cont.	Sample ID	Cont. Type[1]	Vol[2]	Fil[3]	Ref[4]	Preservative (specify)	Analytic Method	Turn[5]	LAB
3	081-B1	w/cu	40ml	N	Y	HCl	EPA 8015/8020	N	Clayton

1 Sample Type Codes: W = Water, S = Soil, Describe Other
Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other
Cap Codes: PT = Plastic, Teflon lined;
2 = Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)
5 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]

ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

WEISS ASSOCIATES

WATER SAMPLING DATA

Well Name B2 Date 8-21-91 Time of Sampling 1640

Job Name OAKLAND III Job Number 4-418-01 Initials RC

Sample Point Description MW (M = Monitoring Well)

Location NEAR CORNER OF VAL STEUCH LOT MACARTHUR & BROADWAY

WELL DATA: Depth to Water 16.31 ft (static, pumping) Depth to Product — ft.

Product Thickness — Well Depth 19.00 ft (spec) Well Depth 19.11 ft(sounded) Well Diameter 2 in

Initial Height of Water in Casing 2.80 ft. = volume 0.46 gal.

3 Casing Volumes to be Evacuated. Total to be evacuated 1.36 gal.

EVACUATION METHOD: Pump # and type — Hose # and type —

Bailer# and type teflon Dedicated Y (Y/N)

Other —

Evacuation Time: Stop 1302 ____ ____

Start 1250 ____ ____

Total Evacation Time 12 min

Total Evacuated Prior to Sampling 1.5 gal.

Evacuation Rate .13 gal. per minute

Depth to Water during Evacuation — ft. — time

Depth to Water at Sampling 18.40 ft. 1640 time

Evacuated Dry? — After 1 gal. Time 1302

80% Recovery = ____

% Recovery at Sample Time ____ Time ____

Formulas/Conversions

r = well radius in ft.

h = ht of water col in ft.

vol. in cyl. = $\pi r^2 h$

7.48 gal/ft^3

V_2" casing = 0.163 gal/ft

V_3" casing = 0.367 gal/ft

V_4" casing = 0.653 gal/ft

$V_{4.5}$" casing = 0.826 gal/ft

V_6" casing = 1.47 gal/ft

V8 casing = 2.61 gal/ft

CHEMICAL DATA: Meter Brand/Number ____

Calibration: ____ 4.0 ____ 7.0 ____ 10.0

Measured:	SC/µmhos	pH	T/C	Time	Volume Evacuated (gal.)
		N/A			

SAMPLE: Color GREY Odor —

Description of matter in sample: GREY PARTICLE

Sampling Method: Decanted from teflon dedicated bailer

Sample Port: Rate — gpm Totalizer — gal.

Time —

# of Cont.	Sample ID	Cont. Type[1]	Vol[2]	Fil[3]	Ref[4]	Preservative (specify)	Analytic Method	Turn[5]	LAB
3	OBI-B2	W/VC	40ml	N	Y	HCL	EPA 8020/8015	N	CLAYTON

1 Sample Type Codes: W = Water, S = Soil, Describe Other
Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other
Cap Codes: PT = Plastic, Teflon lined;
2 = Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)
5 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]

ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

WEISS ASSOCIATES

WATER SAMPLING DATA

Well Name B3 Date 8.21.91 Time of Sampling 1625 CC 1720

Job Name CAKLAND III Job Number 4-418-01 Initials CC

Sample Point Description M (M = Monitoring Well)

Location ± 40 ft NORTH OF MACARTHUR BROADWAY CORNER

WELL DATA: Depth to Water 15.61 ft (~~static~~, pumping) Depth to Product — ft.

Product Thickness — Well Depth 18.90 ft (spec) Well Depth 19.00 ft (sounded) Well Diameter 2 in

Initial Height of Water in Casing 3.39 ft. = volume 0.55 gal.

3 Casing Volumes to be Evacuated. Total to be evacuated 1.66 gal.

EVACUATION METHOD: WA# BF Pump # and type — Hose # and type —

Bailer# and type 1.5" x 60" Dedicated N (Y/N)

Other SAMPLED W/ WA TEFLON BAILER #AA

Evacuation Time: Stop 1226 421

Start 1220 412

Total Evacation Time 6+9=15

Total Evacuated Prior to Sampling 1 gal.

Evacuation Rate 0.07 gal. per minute

Depth to Water during Evacuation 16.68 ft. 1720 time

Depth to Water at Sampling — ft. — time

Evacuated Dry? YES After 1 gal. Time 1226

80% Recovery = —

% Recovery at Sample Time — Time —

Formulas/Conversions

r = well radius in ft.

h = ht of water col in ft.

vol. in cyl. = $\pi r^2 h$

7.48 gal/ft^3

V_2" casing = 0.163 gal/ft

V_3" casing = 0.367 gal/ft

V_4" casing = 0.653 gal/ft

$V_{4.5}$" casing = 0.826 gal/ft

V_6" casing = 1.47 gal/ft

V8 casing = 2.61 gal/ft

CHEMICAL DATA: Meter Brand/Number —

Calibration: — 4.0 — 7.0 — 10.0

Measured:	SC/µmhos	pH	T°C	Time	Volume Evacuated (gal.)
			NA		

SAMPLE: Color GREY COLOR Odor —

Description of matter in sample: GREY PARTICLES

Sampling Method: WA# ? TEFLON

Sample Port: Rate — gpm Totalizer — gal.

Time —

# of Cont.	Sample ID	Cont. Type[1]	Vol[2]	Fil[3]	Ref[4]	Preservative (specify)	Analytic Method	Turn[5]	LAB
3	081-B3	W/CV	40ml	N	Y	HCL	EPA 8015/8020	N	CLAYTON

1 Sample Type Codes: W = Water, S = Soil, Describe Other
Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other
Cap Codes: PT = Plastic, Teflon lined;
2 = Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)
5 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]

ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

WEISS ASSOCIATES

WATER SAMPLING DATA

Well Name B4 Date 8-21-91 Time of Sampling 1715

Job Name OAKLAND TIE Job Number 4-418-01 Initials CC

Sample Point Description M (M = Monitoring Well)

Location ± 10 ft OFF SIDEWALK ON BROADWAY ENTRANCE TO VAL STROUGHS USED CAR LOT

WELL DATA: Depth to Water 17.00 ft (static, pumping) Depth to Product — ft.

Product Thickness — Well Depth 19.3 ft (spec) Well Depth 20.5 ft(sounded) Well Diameter 2 in

Initial Height of Water in Casing 3.57 ft. = volume 0.58 gal.

3 Casing Volumes to be Evacuated. Total to be evacuated 1.75 gal.

EVACUATION METHOD: WAH Pump # and type — Hose # and type —

Bailer# and type PVC Dedicated N (Y/N)

Other SAMPLED WITH UNMARKED TEFLON BAILER

Evacuation Time: Stop 2:16 ____ ____

Start 2:04 ____ ____

Total Evacation Time 12

Total Evacuated Prior to Sampling ~1 gal.

Evacuation Rate ~0.1 0.08 gal. per minute

Depth to Water during Evacuation — ft. — time

Depth to Water at Sampling 17.99 ft. ____ time

Evacuated Dry? YES After ~1 gal. Time 2:10

80% Recovery = —

% Recovery at Sample Time — Time —

Formulas/Conversions

r = well radius in ft.

h = ht of water col in ft.

vol. in cyl. = $\pi r^2 h$

7.48 gal/ft^3

V_2" casing = 0.163 gal/ft

V_3" casing = 0.367 gal/ft

V_4" casing = 0.653 gal/ft

$V_{4.5}$" casing = 0.826 gal/ft

V_6" casing = 1.47 gal/ft

V8 casing = 2.61 gal/ft

CHEMICAL DATA: Meter Brand/Number ____

Calibration: ____ 4.0 ____ 7.0 ____ 10.0

Measured:	SC/µmhos	pH	T°C	Time	Volume Evacuated (gal.)
			NA		

SAMPLE: Color CLOUDY Odor —

Description of matter in sample: ~~WHITE~~ CC FLAKY MATERIAL

Sampling Method: WAH TEFLON UNMARKED

Sample Port: Rate — gpm Totalizer — gal.

Time —

# of Cont.	Sample ID	Cont. Type[1]	Vol[2]	Fil[3]	Ref[4]	Preservative (specify)	Analytic Method	Turn[5]	LAB
3	081-B4	W/cV	40ml	N	Y	HCL	EPA 8015/8020	N	CLAYTON

1 Sample Type Codes: W = Water, S = Soil, Describe Other
Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other
Cap Codes: PT = Plastic, Teflon lined;
2 = Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)
5 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]

ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

WEISS ASSOCIATES

WATER SAMPLING DATA

Well Name EA-1 Date 8/26/91 Time of Sampling 14:18

Job Name Chev-Oakland III Job Number 4-418-01 Initials PC

Sample Point Description M (M = Monitoring Well)

Location Median strip on MacArthur.

WELL DATA: Depth to Water 15.99 ft (static, pumping) Depth to Product — ft.

Product Thickness — Well Depth 30.2 ft (spec) Well Depth 30.55 ft(sounded) Well Diameter 4 in

Initial Height of Water in Casing 14.56 ft. = volume 9.51 gal.

3 Casing Volumes to be Evacuated. Total to be evacuated 28.53 gal.

EVACUATION METHOD: Pump # and type — Hose # and type —

Bailer# and type 3"x36" PVC Dedicated Y (Y/N)

Other —

Evacuation Time: Stop 14:10 — —

Start 13:59 — —

Total Evacation Time 11min

Total Evacuated Prior to Sampling 29 gal.

Evacuation Rate 2.64 gal. per minute

Depth to Water during Evacuation — ft. — time

Depth to Water at Sampling 14:18 ft. 16:03 time

Evacuated Dry? NO After — gal. Time —

80% Recovery = —

% Recovery at Sample Time — Time —

Formulas/Conversions

r = well radius in ft.

h = ht of water col in ft.

vol. in cyl. = $\pi r^2 h$

7.48 gal/ft^3

V_2" casing = 0.163 gal/ft

V_3" casing = 0.367 gal/ft

V_4" casing = 0.653 gal/ft

$V_{4.5}$" casing = 0.826 gal/ft

V_6" casing = 1.47 gal/ft

V8 casing = 2.61 gal/ft

CHEMICAL DATA: Meter Brand/Number —

Calibration: — 4.0 — 7.0 — 10.0

Measured:	SC/µmhos	pH	T°C	Time	Volume Evacuated (gal.)
		ND			

SAMPLE: Color Tan Odor None

Description of matter in sample: Fine silt

Sampling Method: Sample port or dedicated bailer

Sample Port: Rate — gpm Totalizer — gal.

Time —

# of Cont.	Sample ID	Cont. Type[1]	Vol[2]	Fil[3]	Ref[4]	Preservative (specify)	Analytic Method	Turn[5]	LAB
3	081-EA1	w/cv	40ml	N	Y	HCl	EPA 8015/8020	N	Clayton

1 Sample Type Codes: W = Water, S = Soil, Describe Other
Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other
Cap Codes: PT = Plastic, Teflon lined;
2 = Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)
5 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]

ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

WEISS ASSOCIATES

WATER SAMPLING DATA

Well Name EA-2 Date 8/21/91 Time of Sampling 15:17

Job Name Chev-Oakland III Job Number 40-418-01 Initials DC

Sample Point Description M (M = Monitoring Well)

Location Median strip on Broadway

WELL DATA: Depth to Water 17.46 ft (static, pumping) Depth to Product — ft.

Product Thickness — Well Depth 30.10 ft (spec) Well Depth 30.14 ft(sounded) Well Diameter 4 in

Initial Height of Water in Casing 12.68 ft. = volume 8.28 gal.

3 Casing Volumes to be Evacuated. Total to be evacuated 24.84 gal.

EVACUATION METHOD: Pump # and type — Hose # and type —

Bailer# and type 3"x36" PVC Dedicated Y (Y/N)

Other —

Evacuation Time: Stop 15:08

Start 16:53

Total Evacation Time 15 min

Total Evacuated Prior to Sampling 25 gal.

Evacuation Rate 1.67 gal. per minute

Depth to Water during Evacuation — ft. ~~17.19~~ time

Depth to Water at Sampling 25.18 ft. ~~15:17~~ time

Evacuated Dry? No After — gal. Time —

80% Recovery = —

% Recovery at Sample Time — Time —

Formulas/Conversions

r = well radius in ft.

h = ht of water col in ft.

vol. in cyl. = $\pi r^2 h$

7.48 gal/ft^3

V_2" casing = 0.163 gal/ft

V_3" casing = 0.367 gal/ft

V_4" casing = 0.653 gal/ft

$V_{4.5}$" casing = 0.826 gal/ft

V_6" casing = 1.47 gal/ft

V8 casing = 2.61 gal/ft

CHEMICAL DATA: Meter Brand/Number —

Calibration: — 4.0 — 7.0 — 10.0

Measured:	SC/μmhos	pH	T°C	Time	Volume Evacuated (gal.)
		N/A			

SAMPLE: Color Brown Odor — None

Description of matter in sample: Brown silt

Sampling Method: sampling port on dedicated bailer

Sample Port: Rate — gpm Totalizer — gal.

Time —

# of Cont.	Sample ID	Cont. Type[1]	Vol[2]	Fil[3]	Ref[4]	Preservative (specify)	Analytic Method	Turn[5]	LAB
3	081-EA2	W/CU	40ml	N	Y	HCL	EPA 8015/8020	N	Clayton

1 Sample Type Codes: W = Water, S = Soil, Describe Other
Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other
Cap Codes: PT = Plastic, Teflon lined;
2 = Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)
5 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]

ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

WEISS ASSOCIATES

WATER SAMPLING DATA

Not sampled - lack of water in well

Well Name F Date 8/22/91 Time of Sampling —

Job Name Chev - Oakland III Job Number 4-418-01 Initials PC

Sample Point Description M (M = Monitoring Well)

Location Left lane on MacArthur

WELL DATA: Depth to Water 19.02 ft (static / pumping) Depth to Product — ft.

Product Thickness — Well Depth ~~19.63~~ 19.94 ft (spec) Well Depth 19.94 ft(sounded) Well Diameter 2 in

Initial Height of Water in Casing .92 ft. = volume .15 gal.

3 Casing Volumes to be Evacuated. Total to be evacuated .45 gal.

EVACUATION METHOD: Pump # and type — Hose # and type —

Bailer# and type WA disposable teflon Dedicated N (Y/N)

Other —

Evacuation Time: Stop 13143

Start 13142

Total Evacation Time 1 min

Total Evacuated Prior to Sampling .1 gal.

Evacuation Rate .1 gal. per minute

Depth to Water during Evacuation — ft. — time

Depth to Water at Sampling — ft. — time

Evacuated Dry? Yes After .1 gal. Time 13143

80% Recovery = 19.20

% Recovery at Sample Time — Time —

Formulas/Conversions

r = well radius in ft.

h = ht of water col in ft.

vol. in cyl. = $\pi r^2 h$

7.48 gal/ft^3

V_2" casing = 0.163 gal/ft

V_3" casing = 0.367 gal/ft

V_4" casing = 0.653 gal/ft

$V_{4.5}$" casing = 0.826 gal/ft

V_6" casing = 1.47 gal/ft

V8 casing = 2.61 gal/ft

CHEMICAL DATA: Meter Brand/Number —

Calibration: 4.0 7.0 10.0

Measured:	SC/µmhos	pH	T°C	Time	Volume Evacuated (gal.)
		N/A			

SAMPLE: Color — Odor —

Description of matter in sample: —

Sampling Method: —

Sample Port: Rate — gpm Totalizer — gal.

Time —

# of Cont.	Sample ID	Cont. Type[1]	Vol[2]	Fil[3]	Ref[4]	Preservative (specify)	Analytic Method	Turn[5]	LAB
(Not sampled - lack of water in well)									

1 Sample Type Codes: W = Water, S = Soil, Describe Other
Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other
Cap Codes: PT = Plastic, Teflon lined;
2 = Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)
5 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]

ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

Trip Blanks

WEISS ASSOCIATES

WATER SAMPLING DATA

Well Name — Date 8/21/91 Time of Sampling 08:00

Job Name Chevron-Oakland TF Job Number 4-418-01 Initials PC

Sample Point Description — (M = Monitoring Well)

Location —

WELL DATA: Depth to Water _____ ft (static, pumping) Depth to Product _____ ft.

Product Thickness _____ Well Depth _____ ft (spec) Well Depth _____ ft(sounded) Well Diameter _____ in

Initial Height of Water in Casing _____ ft. = volume _____ gal.

_____ Casing Volumes to be Evacuated. Total to be evacuated _____ gal.

EVACUATION METHOD: Pump # and type _____ Hose # and type _____

Bailer# and type _____ Dedicated _____ (Y/N)

Other _____

Evacuation Time: Stop _____ _____ _____

Start _____ _____ _____

Total Evacation Time _____

Total Evacuated Prior to Sampling _____ gal.

Evacuation Rate _____ gal. per minute

Depth to Water during Evacuation _____ ft. _____ time

Depth to Water at Sampling _____ ft. _____ time

Evacuated Dry? _____ After _____ gal. Time _____

80% Recovery = _____

% Recovery at Sample Time _____ Time _____

Formulas/Conversions

r = well radius in ft.

h = ht of water col in ft.

vol. in cyl. = $\pi r^2 h$

7.48 gal/ft^3

V_2" casing = 0.163 gal/ft

V_3" casing = 0.367 gal/ft

V_4" casing = 0.653 gal/ft

$V_{4.5}$" casing = 0.826 gal/ft

V_6" casing = 1.47 gal/ft

V8 casing = 2.61 gal/ft

CHEMICAL DATA: Meter Brand/Number _____

Calibration: _____ 4.0 _____ 7.0 _____ 10.0

Measured:	SC/μmhos	pH	T°C	Time	Volume Evacuated (gal.)

SAMPLE: Color _____ Odor _____

Description of matter in sample: _____

Sampling Method: _____

Sample Port: Rate ____ gpm Totalizer _____ gal.

Time

# of Cont.	Sample ID	Cont. Type[1]	Vol[2]	Fil[3]	Ref[4]	Preservative (specify)	Analytic Method	Turn[5]	LAB
3	081-21	w/cv	40ml	N	Y	HCl	EPA 8015/8020	N	Clayton

1 Sample Type Codes: W = Water, S = Soil, Describe Other
Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other
Cap Codes: PT = Plastic, Teflon lined;
2 = Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)
5 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]

ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

Bailer Blanks

WEISS ASSOCIATES

WATER SAMPLING DATA

Well Name B Date 8/21/91 Time of Sampling ~~0815~~ 1743

Job Name Chevron-Oakland III Job Number 4-418-01 Initials PC

Sample Point Description (M) — (M = Monitoring Well)

Location —

WELL DATA: Depth to Water — ft (static, pumping) Depth to Product — ft.

Product Thickness — Well Depth — ft (spec) Well Depth — ft(sounded) Well Diameter — in

Initial Height of Water in Casing — ft. = volume — gal.

— Casing Volumes to be Evacuated. Total to be evacuated — gal.

EVACUATION METHOD: Pump # and type — Hose # and type —

Bailer# and type WA # 1", 1½" x 24" Teflon Dedicated — (Y/N)

Other —

Evacuation Time: Stop — — —

Start — — —

Total Evacation Time —

Total Evacuated Prior to Sampling — gal.

Evacuation Rate — gal. per minute

Depth to Water during Evacuation — ft. — time

Depth to Water at Sampling — ft. — time

Evacuated Dry? — After — gal. Time —

80% Recovery = —

% Recovery at Sample Time — Time —

Formulas/Conversions

r = well radius in ft.

h = ht of water col in ft.

vol. in cyl. = $\pi r^2 h$

7.48 gal/ft^3

V_2" casing = 0.163 gal/ft

V_3" casing = 0.367 gal/ft

V_4" casing = 0.653 gal/ft

$V_{4.5}$" casing = 0.826 gal/ft

V_6" casing = 1.47 gal/ft

V8 casing = 2.61 gal/ft

CHEMICAL DATA: Meter Brand/Number N/A

Calibration: — 4.0 — 7.0 — 10.0

Measured:	SC/μmhos	pH	T°C	Time	Volume Evacuated (gal.)

SAMPLE: Color Clear Odor None

Description of matter in sample: None

Sampling Method: Poured from Arrowhead Distilled Water from 1 gal. plastic container

Sample Port: Rate — gpm Totalizer — gal. MIL REP 07/16/93 1A 06:58

Time —

# of Cont.	Sample ID	Cont. Type[1]	Vol[2]	Fil[3]	Ref[4]	Preservative (specify)	Analytic Method	Turn[5]	LAB
3	081-22	w/cv	40ml	N	Y	HCl	— Hold —		Clayton

1 Sample Type Codes: W = Water, S = Soil, Describe Other
Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other
Cap Codes: PT = Plastic, Teflon lined;
2 = Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)
5 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]

ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

ATTACHMENT B

ANALYTIC REPORT AND CHAIN-OF-CUSTODY FORMS

Western Operations

1252 Quarry Lane
Pleasanton, CA 94566
(415) 426-2600
Fax (415) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

September 6, 1991

Ms. Mariette Shin
WEISS ASSOCIATES
5500 Shellmound St.
Emeryville, CA 94608

Client Ref. 91026/4-418-01
Clayton Project No. 91082.22

Dear Ms Shin:

Attached is our analytical laboratory report for the samples received on August 22, 1991. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Maryann Gambino, Client Services Supervisor, at (415) 426-2657.

Sincerely,

Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

Results of Analysis
for
Chevron U.S.A., Inc./ Weiss Associates

Client Reference: 91026/4-418-01
Clayton Project No. 91082.22

Sample Identification:	081-A	Date Sampled:	08/21/91
Lab Number:	9108222-01A	Date Received:	08/22/91
Sample Matrix/Media:	WATER	Date Prepared:	09/03/91
Preparation Method:	EPA 5030	Date Analyzed:	09/03/91
Analytical Method:	EPA 8015/8020		

Analyte	CAS #	Concentration (ug/L)	Limit of Detection (ug/L)
BTEX/Gasoline			
Benzene	71-43-2	620	0.4
Toluene	108-88-3	23	0.3
Ethylbenzene	100-41-4	85	0.3
Xylenes	1330-20-7	200	0.4
Gasoline	-----	6,800	50

ND Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Chevron U.S.A., Inc./ Weiss Associates

Client Reference: 91026/4-418-01
Clayton Project No. 91082.22

Sample Identification:	081-B	Date Sampled:	08/21/91
Lab Number:	9108222-02A	Date Received:	08/22/91
Sample Matrix/Media:	WATER	Date Prepared:	08/30/91
Preparation Method:	EPA 5030	Date Analyzed:	08/30/91
Analytical Method:	EPA 8015/8020		

Analyte	CAS #	Concentration (ug/L)	Limit of Detection [a] (ug/L)
BTEX/Gasoline			
Benzene	71-43-2	4,900	20
Toluene	108-88-3	270	20
Ethylbenzene	100-41-4	390	20
Xylenes	1330-20-7	640	20
Gasoline	-----	16,000	3,000

ND Not detected at or above limit of detection
-- Information not available or not applicable

[a] Detection limits increased due to dilution necessary for quantitation.

Results of Analysis
for
Chevron U.S.A., Inc./ Weiss Associates

Client Reference: 91026/4-418-01
Clayton Project No. 91082.22

Sample Identification:	081-B1	Date Sampled:	08/21/91
Lab Number:	9108222-03A	Date Received:	08/22/91
Sample Matrix/Media:	WATER	Date Prepared:	09/29/91
Preparation Method:	EPA 5030	Date Analyzed:	08/29/91
Analytical Method:	EPA 8015/8020		

Analyte	CAS #	Concentration (ug/L)	Limit of Detection [a] (ug/L)
BTEX/Gasoline			
Benzene	71-43-2	2,400	40
Toluene	108-88-3	610	30
Ethylbenzene	100-41-4	300	30
Xylenes	1330-20-7	1,800	40
Gasoline	-----	50,000	5,000

ND Not detected at or above limit of detection
-- Information not available or not applicable

[a] Detection limits increased due to dilution necessary for quantitation.

Results of Analysis
for
Chevron U.S.A., Inc./ Weiss Associates

Client Reference: 91026/4-418-01
Clayton Project No. 91082.22

Sample Identification:	081-B2	Date Sampled:	08/21/91
Lab Number:	9108222-04A	Date Received:	08/22/91
Sample Matrix/Media:	WATER	Date Prepared:	08/28/91
Preparation Method:	EPA 5030	Date Analyzed:	08/28/91
Analytical Method:	EPA 8015/8020		

Analyte	CAS #	Concentration (ug/L)	Limit of Detection [a] (ug/L)
BTEX/Gasoline			
Benzene	71-43-2	28,000	80
Toluene	108-88-3	2,800	60
Ethylbenzene	100-41-4	2,400	60
Xylenes	1330-20-7	12,000	80
Gasoline	-----	80,000	10,000

ND Not detected at or above limit of detection
-- Information not available or not applicable

[a] Detection limits increased due to dilution necessary for quantitation.

Results of Analysis
for
Chevron U.S.A., Inc./ Weiss Associates

Client Reference: 91026/4-418-01
Clayton Project No. 91082.22

Sample Identification:	081-B3	Date Sampled:	08/21/91
Lab Number:	9108222-05A	Date Received:	08/22/91
Sample Matrix/Media:	WATER	Date Prepared:	08/29/91
Preparation Method:	EPA 5030	Date Analyzed:	08/29/91
Analytical Method:	EPA 8015/8020		

Analyte	CAS #	Concentration (ug/L)	Limit of Detection[a] (ug/L)
BTEX/Gasoline			
Benzene	71-43-2	28,000	80
Toluene	108-88-3	11,000	60
Ethylbenzene	100-41-4	1,800	60
Xylenes	1330-20-7	11,000	80
Gasoline	-----	70,000	10,000

ND Not detected at or above limit of detection
-- Information not available or not applicable

[a] Detection limits increased due to dilution necessary for quantitation.

Results of Analysis
for
Chevron U.S.A., Inc./ Weiss Associates

Client Reference: 91026/4-418-01
Clayton Project No. 91082.22

Sample Identification:	081-B4	Date Sampled:	08/21/91
Lab Number:	9108222-06A	Date Received:	08/22/91
Sample Matrix/Media:	WATER	Date Prepared:	08/30/91
Preparation Method:	EPA 5030	Date Analyzed:	08/30/91
Analytical Method:	EPA 8015/8020		

Analyte	CAS #	Concentration (ug/L)	Limit of Detection (ug/L)
BTEX/Gasoline			
Benzene	71-43-2	11,000	0.4
Toluene	108-88-3	110	0.3
Ethylbenzene	100-41-4	450	0.3
Xylenes	1330-20-7	340	0.4
Gasoline	-----	18,000	50

ND Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Chevron U.S.A., Inc./ Weiss Associates

Client Reference: 91026/4-418-01
Clayton Project No. 91082.22

Sample Identification:	081-EA1	Date Sampled:	08/21/91
Lab Number:	9108222-07A	Date Received:	08/22/91
Sample Matrix/Media:	WATER	Date Prepared:	08/30/91
Preparation Method:	EPA 5030	Date Analyzed:	08/30/91
Analytical Method:	EPA 8015/8020		

Analyte	CAS #	Concentration (ug/L)	Limit of Detection (ug/L)
BTEX/Gasoline			
Benzene	71-43-2	ND	0.4
Toluene	108-88-3	ND	0.3
Ethylbenzene	100-41-4	ND	0.3
Xylenes	1330-20-7	ND	0.4
Gasoline	-----	ND	50

ND Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Chevron U.S.A., Inc./ Weiss Associates

Client Reference: 91026/4-418-01
Clayton Project No. 91082.22

Sample Identification:	081-EA2	Date Sampled:	08/21/91
Lab Number:	9108222-08A	Date Received:	08/22/91
Sample Matrix/Media:	WATER	Date Prepared:	08/28/91
Preparation Method:	EPA 5030	Date Analyzed:	08/28/91
Analytical Method:	EPA 8015/8020		

Analyte	CAS #	Concentration (ug/L)	Limit of Detection (ug/L)
BTEX/Gasoline			
Benzene	71-43-2	0.8	0.4
Toluene	108-88-3	1.4	0.3
Ethylbenzene	100-41-4	ND	0.3
Xylenes	1330-20-7	ND	0.4
Gasoline	-----	70	50

ND Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Chevron U.S.A., Inc./ Weiss Associates

Client Reference: 91026/4-418-01
Clayton Project No. 91082.22

Sample Identification:	081-21	Date Sampled:	08/21/91
Lab Number:	9108222-09A	Date Received:	08/22/91
Sample Matrix/Media:	WATER	Date Prepared:	08/29/91
Preparation Method:	EPA 5030	Date Analyzed:	08/29/91
Analytical Method:	EPA 8015/8020		

Analyte	CAS #	Concentration (ug/L)	Limit of Detection (ug/L)
BTEX/Gasoline			
Benzene	71-43-2	ND	0.4
Toluene	108-88-3	ND	0.3
Ethylbenzene	100-41-4	ND	0.3
Xylenes	1330-20-7	ND	0.4
Gasoline	-----	ND	50

ND Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Chevron U.S.A., Inc./ Weiss Associates

Client Reference: 91026/4-418-01
Clayton Project No. 91082.22

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9108222-11A	Date Received:	--
Sample Matrix/Media:	WATER	Date Prepared:	08/29/91
Preparation Method:	EPA 5030	Date Analyzed:	08/29/91
Analytical Method:	EPA 8015/8020		

Analyte	CAS #	Concentration (ug/L)	Limit of Detection (ug/L)
BTEX/Gasoline			
Benzene	71-43-2	ND	0.4
Toluene	108-88-3	ND	0.3
Ethylbenzene	100-41-4	ND	0.3
Xylenes	1330-20-7	ND	0.4
Gasoline	-----	ND	50

ND Not detected at or above limit of detection
-- Information not available or not applicable

Results of Analysis
for
Chevron U.S.A., Inc./ Weiss Associates

Client Reference: 91026/4-418-01
Clayton Project No. 91082.22

Sample Identification: 081-B1
Lab Number: 9108222-03D
Sample Matrix/Media: WATER
Analytical Method: See below

Date Sampled: 08/21/91
Date Received: 08/22/91
Date Analyzed: See below

Date Analyzed	Method No.	Analyte	Concentration (mg/L)	Limit of Detection (mg/L)
Priority Pollutant Metals				
09/03/91	6010	Antimony	<0.02	0.02
09/04/91	7060	Arsenic	<0.005	0.005
09/03/91	6010	Beryllium	<0.005	0.005
09/03/91	6010	Cadmium	<0.005	0.005
09/03/91	6010	Chromium	<0.005	0.005
09/03/91	6010	Copper	<0.02	0.02
09/05/91	7421 [a]	Lead	<0.01	0.01
09/05/91	7470	Mercury	<0.0005	0.0005
09/03/91	6010	Nickel	<0.01	0.01
09/04/91	7740	Selenium	<0.005	0.005
09/03/91	6010	Silver	<0.01	0.01
09/03/91	6010	Thallium	<0.05	0.05
09/03/91	6010	Zinc	<0.01	0.01

< Less than, below limit of detection
-- Information not available or not applicable

[a] Sample analyzed by EPA 6010

Results of Analysis
for
Chevron U.S.A., Inc./ Weiss Associates

Client Reference: 91026/4-418-01
Clayton Project No. 91082.22

Sample Identification: METHOD BLANK
Lab Number: 9108222-11A
Sample Matrix/Media: WATER
Analytical Method: See below

Date Sampled: --
Date Received: --
Date Analyzed: See below

Date Analyzed	Method No.	Analyte	Concentration (mg/L)	Limit of Detection (mg/L)
Priority Pollutant Metals				
09/03/91	6010	Antimony	<0.02	0.02
09/04/91	7060	Arsenic	<0.005	0.005
09/03/91	6010	Beryllium	<0.005	0.005
09/03/91	6010	Cadmium	<0.005	0.005
09/03/91	6010	Chromium	<0.005	0.005
09/03/91	6010	Copper	<0.02	0.02
09/04/91	7421a	Lead	<0.01	0.01
09/05/91	7470	Mercury	<0.0005	0.0005
09/03/91	6010	Nickel	<0.01	0.01
09/04/91	7740	Selenium	<0.005	0.005
09/03/91	6010	Silver	<0.01	0.01
09/03/91	6010	Thallium	<0.05	0.05
09/03/91	6010	Zinc	<0.01	0.01

< Less than, below limit of detection
-- Information not available or not applicable

[a] Sample analyzed by EPA 6010

Quality Assurance Results Summary
for
Clayton Project No. 91082.22

Clayton Lab Number: 9108222-07A
Ext./Prep. Method:
Date: / /
Analyst:
Std. Source: V910806-01W

Analytical Method: EPA8015 8020
Instrument ID: 05587
Date: 08/30/91
Analyst: PF
Sample Matrix/Media: WATER
Units: UG/L

Analyte		Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
BENZENE	(PID)	ND	7.37	7.29	99	7.42	101	100	83	117	1.8	10
GASOLINE	(FID)	ND	200	197	99	200	100	99	65	132	1.5	13
TOLUENE	(PID)	ND	23.1	22.5	97	23.0	100	98	84	118	2.2	11

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection
LCL = Lower Control Limit
UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 91082.22

Clayton Lab Number: 9108205-01A
Ext./Prep. Method: EPA3010
Date: 09/03/91
Analyst: HYW
Std. Source: VHG10140

Analytical Method: EPA6010
Instrument ID: 03894
Date: 09/03/91
Analyst: JSL
Sample Matrix/Media: WATER
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
ALUMINUM	ND	2.00	1.91	96	1.95	98	97	75	125	2.1	20
ANTIMONY	ND	2.00	1.91	96	1.93	97	96	74	120	1.0	15
ARSENIC	ND	2.00	1.85	93	1.87	94	93	75	125	1.1	20
BARIUM	ND	2.00	1.88	94	1.94	97	96	72	121	3.1	15
BERYLLIUM	ND	2.00	1.96	98	2.01	101	99	71	114	2.5	15
BORON	ND	2.00	1.66	83	1.83	92	87	75	125	9.7	20
CADMIUM	ND	2.00	1.89	95	1.92	96	95	78	118	1.6	15
CALCIUM	19.6	2.00	SOR	SOR	SOR	SOR	SOR	75	125	SOR	20
CHROMIUM	ND	2.00	1.89	95	1.93	97	96	77	123	2.1	15
COBALT	ND	2.00	1.88	94	1.92	96	95	76	121	2.1	15
COPPER	0.0300	2.00	1.89	93	1.98	98	95	78	118	4.7	15
IRON	0.120	2.00	2.06	97	2.09	99	98	78	118	1.4	15
LEAD	ND	2.00	1.91	96	1.94	97	96	74	121	1.6	15
LITHIUM	ND	2.00	1.87	94	1.94	97	95	75	125	3.7	20
MAGNESIUM	4.06	2.00	6.14	104	6.18	106	105	75	125	0.7	20
MANGANESE	ND	2.00	1.91	96	1.96	98	97	87	113	2.6	15
MOLYBDENUM	ND	2.00	1.91	96	1.95	98	97	68	125	2.1	15
NICKEL	ND	2.00	1.86	93	1.91	96	94	76	118	2.7	15
POTASSIUM	ND	20.0	19.5	97	20.2	101	99	62	141	3.4	15
SELENIUM	ND	2.00	1.92	96	1.95	98	97	75	125	1.6	20
SILVER	ND	2.00	1.89	95	1.93	97	96	75	120	2.1	15

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection
LCL = Lower Control Limit
UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Clayton Lab Number: 9108205-01A
Ext./Prep. Method: EPA3010
Date: 09/03/91
Analyst: HYW
Std. Source: VHG10140

Analytical Method: EPA
Instrument ID: 03891
Date: 09/03/91
Analyst: JSL
Sample Matrix/Media: WATER
Units: MG/L

SODIUM	12.0	2.00	SOR	SOR	SOR	SOR	SOR	75	125	SOR	20
STRONTIUM	0.0800	2.00	1.85	89	1.90	91	90	75	125	2.7	20
THALLIUM	ND	2.00	1.88	94	1.91	96	95	63	128	1.6	15
TIN	ND	2.00	1.95	98	1.97	99	98	75	125	1.0	20
TITANIUM	ND	2.00	1.86	93	1.91	96	94	75	125	2.7	20
VANADIUM	ND	2.00	1.84	92	1.88	94	93	79	118	2.2	15
ZINC	0.0600	2.00	2.04	99	2.08	101	100	77	123	1.9	15

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection
LCL = Lower Control Limit
UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 91082.22

Clayton Lab Number: 9108222-03D
Ext./Prep. Method: EPA206_2/270_2
Date: 09/04/91
Analyst: SUE
Std. Source: B 426141/404183

Analytical Method: EPA206_2/270_2
Instrument ID: 07467
Date: 09/04/91
Analyst: SUE
Sample Matrix/Media: WATER
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
ARSENIC	ND	0.200	0.157	79	0.143	72	75	67	126	9.3	15
SELENIUM	ND	0.200	0.191	96	0.186	93	94	47	132	2.7	20

LCS = Laboratory Control Sample
LCL = Lower Control Limit
UCL = Upper Control Limit

Quality Assurance Results Summary
for
Clayton Project No. 91082.22

Clayton Lab Number: 9108312-02B
Ext./Prep. Method: EPA245_1
Date: 09/05/91
Analyst: SUE
Std. Source: EM MX0399-1

Analytical Method: EPA245_1
Instrument ID: 05581
Date: 09/05/91
Analyst: SUE
Sample Matrix/Media: WATER
Units: MG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
MERCURY	ND	0.0100	0.00950	95	0.00960	96	96	74	117	1.0	17

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection
LCL = Lower Control Limit
UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No 9108222

Chain-of-Custody-Record

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

Chevron Facility Number 91026
Facility Address MacArthur/Broadway
Consultant Project Number 4-418-01
Consultant Name Weiss Associates
Address 5500 Shellmound, Emeryville, Ca. 94608
Project Contact (Name) Mariette Shin
(Phone) (415) 547-5420 (Fax Number) 415-547-5043

Chevron Contact (Name) Nancy Vukelich
(Phone) (415) 842-9581
Laboratory Name Clayton Environmental
Laboratory Release Number 4950430
Samples Collected by (Name) Paul Cardoza/Chris Christensen
Collection Date 8/21/91
Signature Paul Cardoza

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air 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)	Priority Pollutants 3 EPA 6010 ICP 6010				Remarks
081-A	01A,B,C	3	W	G	15:00	HCl	Y	X												
081-B	02				15:50															
081-B1	03				16:14															
081-B2	04				16:40															
081-B3	05				17:20															
081-B4	06				17:15															
081-EA1	07				14:18															
081-EA2	08				15:17															
081-21	09				08:00															
081-22	10	↓	↓	↓	17:43	↓	↓	—							HOLD - Pending analysis of other samples					
081-01	03D	1	W	G	18:00	HNO_3	Y									X				

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Paul Cardoza	Weiss Associates	8/21/91 07:15	Ronald C. Jensen	Weiss assoc	8/22/91 0930
Ronald C. Jensen	Weiss assoc	8/22/91 1100	[signature]	Clayton	8/22/91 1100
[signature]	Clayton	8/22/91 1200	Rebecca L. Chiarito		8/22/91 12:00

Recieved For Laboratory By (Signature)

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

COC-3.DWG/DS 91/HCH

Samples stored 8/21/91 → 8/22/91 in secure locked area

RECEIVED FROM LOCKED AREA