Chevron

July 29, 1994

Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, CA 94583
P.O. Box 5004
San Ramon, CA 94583-0804

Marketing Department
Phone 510 842 9500

Ms. Juliet Shin
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94501

Re: Chevron Service Station #9-0504
15900 Hesperian Boulevard, San Lorenzo, CA

Dear Ms. Shin:

Enclosed is the First Quarter 1994 Ground Water Monitoring Report dated May 13, 1994, 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 (TPH-G) and BTEX. Dissolved concentrations of these constituents observed during the past quarter are consistent with historical results. Depth to ground water was measured at approximately 8.4 to 13.0 feet below grade, and the direction of flow is to the south-southwest.

To date the ground water extraction system has removed over 1.1 million gallons of hydrocarbon impacted ground water. We will continue to operate and evaluate the effectiveness of the system.
But how much product?
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: Mr. Kevin Graves, RWQCB - Bay Area
Mr. S.A. Willer

Mr. Bruce E. Prigoff, Esq.
Steefel, Levitt & Weiss
One Embarcadero Center, 29th Floor
San Francisco, CA 94111

File: 9-0504 QM7

Weiss Associates *Environmental and Geologic Services*

5500 Shellmound Street, Emeryville, CA 94608-2411 *Fax: 510-547-5043* *Phone:* ***510-450-6000***

May 13, 1994

Mark Miller
Chevron U.S.A. Products Company
P.O. Box 5004
San Ramon, CA 94583-0804

Re: First Quarter 1994
Ground Water Monitoring Report
Chevron Service Station #9-0504
15900 Hesperian Boulevard
San Lorenzo, California
WA Job #4-551-91

Dear Mr. Miller:

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 March 31, 1994, 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 electronic sounder (Table 1). We also checked the wells for floating hydrocarbons. No floating hydrocarbons were detected in any wells this quarter.

WA collected ground water samples for analysis after purging at least 5 well-casing volumes of ground water from each well, purging the well dry and allowing it to recover to at least 80% of its static water level, or purging the well dry and allowing it to recover for two hours. Each sample was decanted from a 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 processed through the onsite treatment system.

MONITORING AND ANALYTIC RESULTS

The top-of-casing elevation, depth to ground water, and ground water elevation for each well is presented in Table 1. Ground water elevation contours and inferred 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.

SCHEDULE

The Second Quarter 1994 ground water sampling is scheduled for June 1994. We will submit a report presenting the field and analytic data by August 1994.

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

Sincerely,
Weiss Associates

Deborah Underwood
Staff Geologist

Peter F. McKereghan
Project Hydrogeologist, C.E.G.

DHU/PFM:du

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

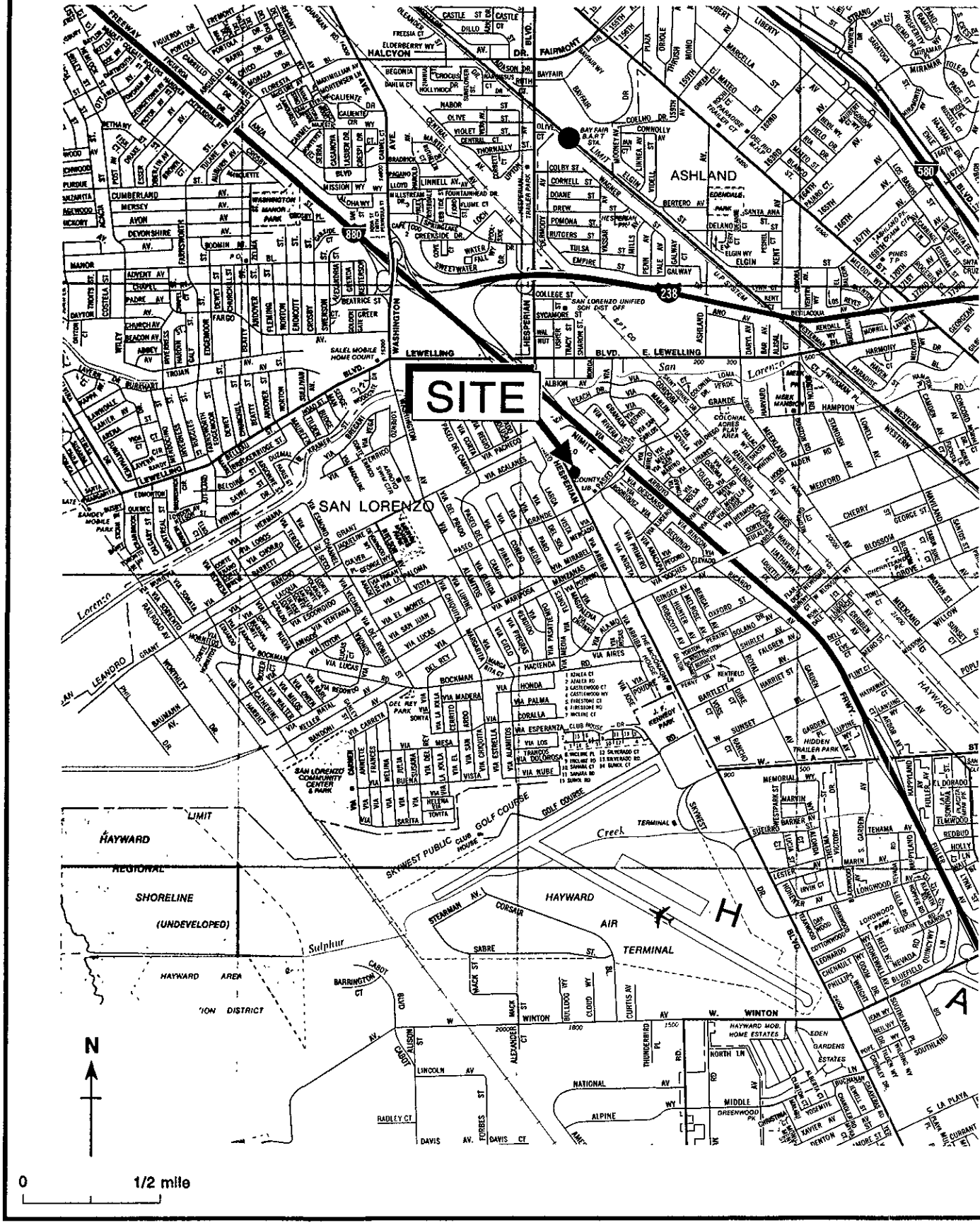

Figure 1. Site Location Map - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California

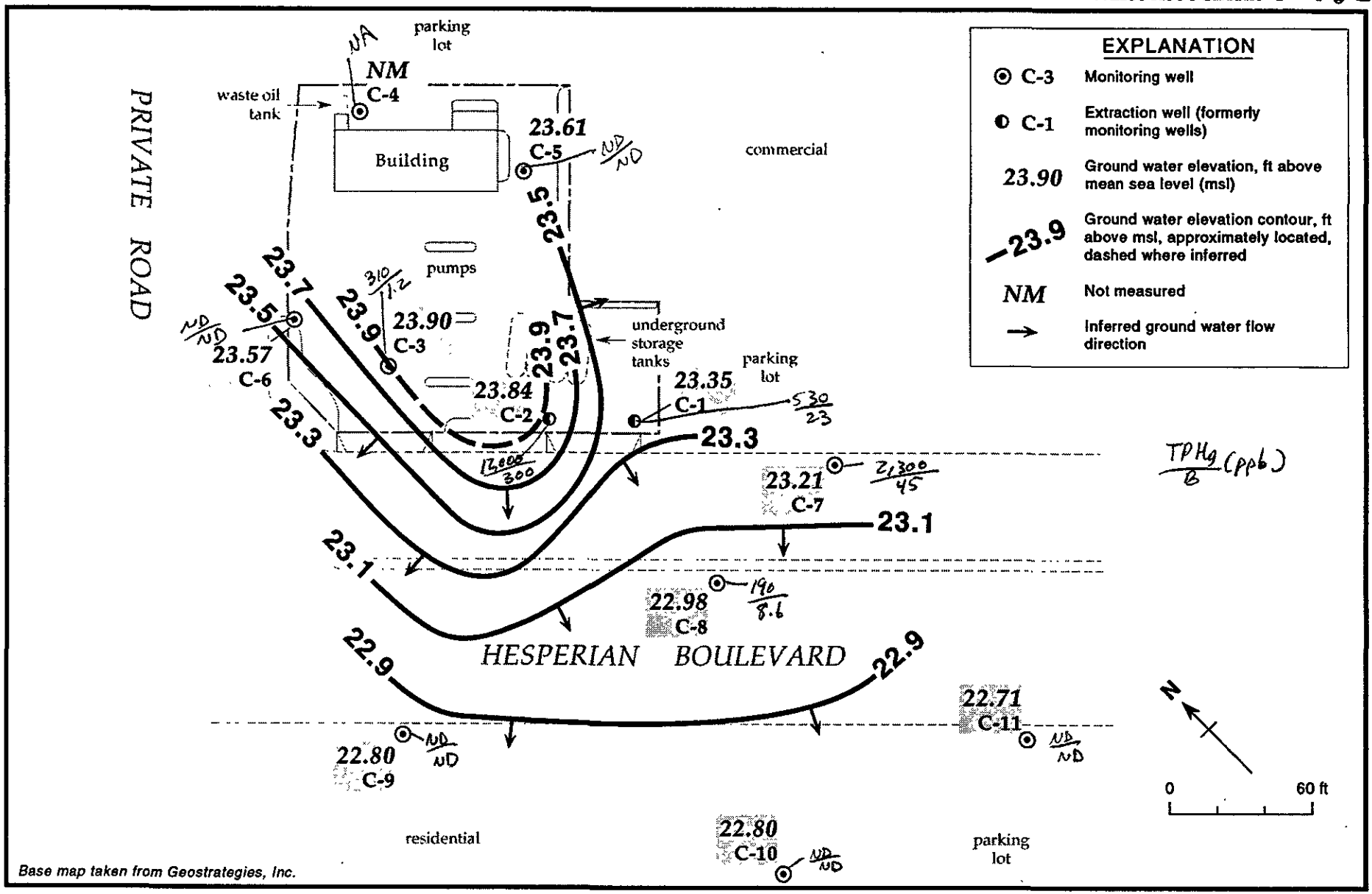

Figure 2. Ground Water Elevation Contour Map - March 31, 1994 - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California

C551-006.ai

05/13/94

Table 1. Summary of Ground Water Elevations, Chevron Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Thickness of Floating Hydrocarbons (ft)	Ground Water Elevation (ft above msl)[a]
C-1	06/06/89		---	---	---
	12/08/89		13.14	0.01	---
	09/07/90	33.93[b]	14.04	0.03	19.91
	12/20/90		13.87	0.01	20.07
	03/15/91		11.40		22.53
	06/28/91		12.25		21.68
	09/26/91		14.02		19.91
	01/27/92		12.63		21.30
	04/20/92		10.43		23.50
	07/17/92		12.61		21.32
	10/29/92		---		---
	01/20/93		9.42		24.51
	05/03/93		---		---
	07/28/93		10.48		23.45
	10/27/93	32.80	11.32		21.48
	03/31/94		**9.45**		**23.35**
C-2	06/06/89		---	---	---
	12/08/89		13.44	0.15	---
	09/07/90	34.21[b]	14.28	0.10	20.01
	12/20/90		14.06	0.01	20.16
	03/15/91		11.59	0.01	22.63
	06/28/91		12.55		21.66
	09/26/91		14.20		20.01
	01/27/92		12.46		21.75
	04/20/92		10.24		23.97
	07/17/92		12.81		21.40
	10/29/92		---		---
	01/20/93		8.79		25.42
	05/03/93		---		---
	07/28/93		---		---
	10/27/93	33.46	12.36		21.10
	03/31/94		**9.62**		**23.84**
C-3	06/06/89		---	---	---
	12/08/89		---	---	---
	09/07/90	35.46[b]	15.31		20.15
	12/20/90		15.17		20.29
	03/06/91		13.27		22.19

-- Table 1 continues on next page --

Table 1. Summary of Ground Water Elevations, Chevron Station #9-0504, 15900 Hesperian Blvd., San Lorenzo, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Thickness of Floating Hydrocarbons (ft)	Ground Water Elevation (ft above msl)[a]
	06/28/91		13.67		21.79
	09/26/91		15.32		20.14
	01/27/92		13.91		21.55
	04/20/92		11.66		23.80
	07/17/92		13.96		21.50
	10/29/92		15.51		19.95
	01/20/93		10.99		24.47
	05/03/93		10.97		24.49
	07/28/93		12.41		23.05
	10/27/93		13.37		21.78
	03/31/94		**11.56**[c]		**23.90**
C-4	06/06/89	---	---		---
	12/08/89	---	---		---
	09/07/90	35.78[b]	15.58		20.20
	12/20/90		15.42		20.36
	03/06/91		13.54		22.24
	06/28/91		13.93		21.85
	09/26/91		15.64		20.14
	01/27/92		13.96		21.82
	04/20/92		11.71		24.07
	07/17/92		14.19		21.59
	10/29/92		15.72		20.06
	01/20/93		11.17		24.61
	05/03/93		10.94		24.84
	07/28/93		12.40		23.38
	10/27/93	35.23	13.32		21.91
	03/31/94		---[d]		---
C-5	06/06/89	---	---		---
	12/08/89	---	---		---
	09/07/90	35.31[b]	15.10		20.21
	12/20/90		14.94		20.37
	03/06/91		13.06		22.25
	06/28/91		13.46		21.85
	09/26/91		15.14		20.17
	01/27/92		13.31		22.00
	04/20/92		11.10		24.21
	07/17/92		13.73		21.58

-- Table 1 continues on next page --

Table 1. Summary of Ground Water Elevations, Chevron Station #9-0504, 15900 Hesperian Blvd., San Lorenzo, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Thickness of Floating Hydrocarbons (ft)	Ground Water Elevation (ft above msl)[a]
	10/29/92		15.20		20.11
	01/20/93		10.72		24.59
	05/03/93		10.43		24.88
	07/28/93		11.81		23.50
	10/27/93	34.61	12.68		21.93
	03/31/94		**11.00[c]**		**23.61**
C-6	12/08/89	---	---		---
	09/07/90	36.89[b]	16.83		20.06
	12/20/90		16.66		20.23
	03/06/91		14.80		22.09
	06/28/91		15.16		21.73
	09/26/91		16.82		20.07
	01/27/92		15.44		21.45
	04/20/92		13.17		23.72
	07/17/92		15.44		21.45
	10/29/92		16.98		19.91
	01/20/93		12.47		24.42
	05/03/93				
	07/28/93		13.86		23.03
	10/27/93	36.57	14.85		21.72
	03/31/94		**13.00**		**23.57**
C-7	12/08/89	---	---		---
	09/07/90	32.75[b]	13.02		19.73
	12/20/90		12.28		20.47
	03/06/91		16.92		15.83
	06/28/91		11.31		21.44
	09/26/91		12.28		20.47
	01/27/92		11.43		21.32
	04/20/92		9.28		23.47
	07/17/92		11.49		21.26
	10/29/92		13.05		19.70
	01/20/93		8.69		24.06
	05/03/93		8.68		24.07
	07/28/93		9.99		22.76
	10/27/93	32.32	10.72		21.60
	03/31/94		**9.11**		**23.21**

-- Table 1 continues on next page --

Table 1. Summary of Ground Water Elevations, Chevron Station #9-0504, 15900 Hesperian Blvd., San Lorenzo, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Thickness of Floating Hydrocarbons (ft)	Ground Water Elevation (ft above msl)[a]
C-8	12/08/89	---	---		---
	09/07/90	33.82[b]	14.32		19.50
	12/20/90		14.20		19.61
	03/06/91		14.80		19.02
	06/28/91		12.65		21.17
	09/26/91		14.29		19.53
	01/27/92		12.60		21.22
	04/20/92		10.36		23.46
	07/17/92		12.88		20.94
	10/29/92		14.39		19.43
	01/20/93		10.02		23.80
	05/03/93		9.75		24.07
	07/28/93		11.14		22.68
	10/27/93	33.25	12.01		21.24
	03/31/94		**10.27**		**22.98**
C-9	09/07/90	33.43[b]	14.06		19.37
	12/20/90		14.03		19.40
	03/06/91		12.12		21.31
	06/28/91		12.41		21.02
	09/26/91		14.02		19.41
	01/27/92		12.53		20.90
	04/20/92		10.22		23.21
	07/17/92		12.64		20.79
	10/29/92		14.20		19.23
	01/20/93		9.72		23.71
	05/03/93		9.55		23.66
	07/28/93		10.98		22.45
	10/27/93	32.97	11.98		20.99
	03/31/94		**10.17**		**22.80**
C-10	09/07/90	31.63[b]	12.49		19.14
	12/20/90		12.36		19.27
	03/06/91		10.45		21.18
	06/28/91		10.74		20.69
	09/26/91		12.42		19.21
	01/27/92		10.84		20.79
	04/20/92		8.55		23.06
	07/17/92		11.02		20.61

-- Table 1 continues on next page --

Table 1. Summary of Ground Water Elevations, Chevron Station #9-0504, 15900 Hesperian Blvd., San Lorenzo, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Thickness of Floating Hydrocarbons (ft)	Ground Water Elevation (ft above msl)[a]
	10/29/92		12.40		19.23
	01/20/93		8.14		23.49
	05/03/93		7.92		23.71
	07/28/93		9.36		22.27
	10/27/93	31.16	10.30		20.86
	03/31/94		**8.45**		**22.71**
C-11	09/07/90	31.58[b]	12.22		19.36
	12/20/90		12.08		19.50
	03/06/91		16.15		15.43
	06/28/91		10.52		21.06
	09/26/91		12.20		19.38
	01/27/92		10.73		20.85
	04/20/92		8.56		23.02
	07/17/92		10.78		20.80
	10/29/92		12.07		19.51
	01/20/93		7.97		21.61
	05/03/93		7.95		23.63
	07/28/93		9.31		22.27
	10/27/93	31.23	10.17		21.06
	03/31/94		**8.43**		**22.80**

Notes:

msl = Mean sea level

a = When floating hydrocarbons are present ground water elevation is adjusted using the relation: Ground Water Elevation = Top-of-casing elevation - depth to water + (0.8 x hydrocarbon thickness).

b = Elevation of Well Box

c = Depth to water measured from top of well vault

d = Well inaccessible, depth to water not measured

Data from June 6, 1989 to July 28, 1993 from Groundwater Technology, Inc. September 21, 1993 report.

Table 2. Analytic Results for Ground Water, Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	B	E	T	X
			<-----parts per billion (µg/l)----->				
C-1	06/06/89	---	5,100	250	200	170	990
	12/08/89	13.14	---	---	---	---	---
	09/07/90	14.04	---	---	---	---	---
	12/20/90	13.87	---	---	---	---	---
	03/15/91	11.40	37,000	220	53	53	1,900
	06/28/91	12.25	3,300	110	6.2	6.2	350
	09/26/91	14.02	3,200	220	6.9	6.9	710
	01/27/92	12.63	330	20	0.6	0.6	48
	04/20/92	10.43	2,700	130	3.4	3.4	690
	07/17/92	12.61	490	17	<0.5	<0.5	52
	10/29/92	---	---	---	---	---	---
	01/20/93	9.42	---	---	---	---	---
	05/03/93	---	---	---	---	---	---
	07/28/93	10.48	---	---	---	---	---
	10/27/93	11.32	240	3.6	11	<0.5	23
	03/31/94	9.45	530	23	10	1.2	120
C-2	06/06/89	---	130,000	14,000	3,400	28,000	24,000
	12/08/89	13.44	---	---	---	---	---
	09/07/90	14.28	---	---	---	---	---
	12/20/90	14.06	---	---	---	---	---
	03/15/91	11.59	1,200,000	4,700	13,000	16,000	140,000
	06/28/91	12.55	150,000	3,500	2,100	4,200	16,000
	09/26/91	14.20	4,900	220	130	290	880
	01/27/92	12.46	8,200	510	230	590	1,300
	04/20/92	10.24	19,000	1,700	930	1,700	4,700
	07/17/92	12.81	20,000	950	1,300	950	4,700
	10/29/92	---	---	---	---	---	---
	01/20/93	8.79	---	---	---	---	---
	05/03/93	---	---	---	---	---	---
	07/28/93	---	---	---	---	---	---
	10/27/93	12.36	1,600	63	5.9	5.8	190
	03/31/94	9.62	12,000	300	510	96	2,700
C-3	06/06/89	---	2,600	63	390	20	370
	12/08/89	---	680	6.0	31	1.0	58
	09/07/90	15.31	490	6.0	41	<0.5	120
	09/07/90[dup]	15.31	460	6.0	40	<0.5	110
	12/20/90	15.17	100	5.0	27	<0.5	130

-- Table 2 continues on next page --

Table 2. Analytic Results for Ground Water, Chevron Service Station #9-4750, 16th Street and "R" Street, Merced, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	B	E	T	X
			<----------parts per billion (µg/l)---------->				
	03/06/91	13.27	1,300	7.0	75	<0.5	250
	03/06/91[dup]	13.27	1,400	8.0	76	<0.5	250
	06/28/91	13.67	770	6.0	81	<0.5	71
	06/28/91[dup]	13.67	990	5.5	86	<0.5	75
	09/26/91	15.32	1,400	7.9	98	<0.5	340
	01/27/92	13.91	150	0.7	12	<0.5	12
	04/20/92	11.66	1,600	9.3	190	1.0	370
	07/17/92	13.96	460	18	20	<0.5	52
	10/29/92	15.51	520	2.4	30	1.0	79
	01/20/93	10.99	4,200	7.4	140	<0.5	380
	05/03/93	10.97	1,300	6.8	71	3.2	170
	07/28/93	12.41	220	1.4	17	<0.5	39
	10/27/93	13.37	1,800	5.5	68	0.7	290
	03/31/94	11.56	310	1.2	19	<0.5	54
C-4	06/06/89	---	<50	<0.05	<1.0	<1.0	<3.0
	12/08/89	---	<500	<0.5	<0.5	<0.5	<0.5
	09/07/90	15.58	<50	<0.5	<0.5	<0.5	<0.5
	12/20/90	15.42	170	1.0	<0.5	<0.5	4.0
	03/06/91	13.54	<50	<0.5	<0.5	<0.5	<0.5
	06/28/91	13.93	<50	<0.5	<0.5	<0.5	<0.8
	09/26/91	15.64	<50	<0.5	<0.5	<0.5	<0.5
	09/26/91[dup]	15.64	<50	<0.5	<0.5	<0.5	
	01/27/92	13.96	<50	<0.5	<0.5	<0.5	<0.5
	04/20/92	11.71	<50	<0.5	<0.5	<0.5	<0.5
	07/17/92	14.19	<50	<0.5	<0.5	<0.5	<0.5
	10/29/92	15.72	<50	<0.5	<0.5	<0.5	<0.5
	01/20/93	11.17	<50	<0.5	<0.5	<0.5	<0.5
	05/03/93	10.94	<50	<0.5	<0.5	<0.5	<0.5
	07/28/93	12.40	<50	<0.5	<0.5	<0.5	<1.5
	10/27/93	13.32	<50	<0.5	<0.5	<0.5	<1.5
	03/31/94[a]	---	---	---	---	---	---
C-5	06/06/89	---	<50	<0.05	<1.0	<0.05	<3.0
	12/08/89	---	<500	<0.5	<0.5	<0.5	<0.5
	09/07/90	15.10	<50	<0.5	<0.5	<0.5	<0.5
	12/20/90	14.94	80	<0.5	<0.5	<0.5	<0.5
	03/06/91	13.06	<50	<0.5	<0.5	<0.5	<0.5
	06/28/91	13.46	<50	<0.5	<0.5	<0.5	<0.5

-- Table 2 continues on next page --

Table 2. Analytic Results for Ground Water, Chevron Service Station #9-4750, 16th Street and "R" Street, Merced, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	B	E	T	X
			<----------parts per billion (µg/l)---------->				
	09/26/91	15.14	<50	<0.5	<0.5	<0.5	<0.5
	01/27/92	13.31	<50	<0.5	<0.5	<0.5	<0.5
	04/20/92	11.10	<50	<0.5	<0.5	<0.5	<0.5
	07/17/92	13.73	<50	<0.5	<0.5	<0.5	<0.5
	10/29/92	15.20	<50	<0.5	<0.5	<0.5	<0.5
	01/20/93	10.72	<50	<0.5	<0.5	<0.5	<0.5
	05/03/93	10.43	<50	<0.5	<0.5	<0.5	<1.5
	07/28/93	11.81	<50	<0.5	<0.5	<0.5	<1.5
	10/27/93	12.68	<50	<0.5	<0.5	<0.5	<1.5
	03/31/94	11.00	<50	<0.5	<0.5	<0.5	<0.5
C-6	12/08/89	---	<500	<0.5	<0.5	<0.5	<0.5
	09/07/90	16.83	57	<0.5	0.6	<0.5	4.0
	12/20/90	16.66	<50	<0.5	<0.5	<0.5	<0.5
	03/06/91	14.80	<50	<0.5	<0.5	<0.5	<0.5
	06/28/91	15.16	<50	<0.5	<0.5	<0.5	<0.5
	09/26/91	16.82	<50	<0.5	<0.5	<0.5	<0.5
	01/27/92	15.44	<50	<0.5	<0.5	<0.5	<0.5
	04/20/92	13.17	<50	<0.5	<0.5	<0.5	<0.5
	07/17/92	15.44	<50	<0.5	<0.5	<0.5	<0.5
	10/29/92	16.98	<50	<0.5	<0.5	<0.5	<0.5
	01/20/93	12.47	<50	<0.5	<0.5	<0.5	<0.5
	05/03/93	12.47	<50	<0.5	<0.5	<0.5	<0.5
	07/28/93	13.86	<50	<0.5	<0.5	<0.5	<1.5
	10/27/93	14.85	<50	<0.5	<0.5	<0.5	<1.5
	03/31/94	13.00	<50	<0.5	<0.5	<0.5	<0.5
C-7	12/08/89	---	1,700	32	17	12	150
	09/07/90	13.02	880	84	46	23	180
	12/20/90	12.28	560	24	19	3.0	21
	03/06/91	16.92	240	25	4.0	2.0	26
	06/28/91	11.31	2,400	130	82	13	220
	09/26/91	12.28	8,100	47	350	35	1,200
	01/27/92	11.43	12,000	170	420	40	830
	04/20/92	9.28	1,200	80	90	11	110
	07/17/92	11.49	2,400	20	95	7.4	200
	10/29/92	13.05	69	1.3	3.8	<0.5	7.2
	01/20/93	8.69	<50	<0.5	<0.5	<0.5	<0.5
	05/03/93	8.68	2,400	29	140	8.6	210

-- Table 2 continues on next page --

Table 2. Analytic Results for Ground Water, Chevron Service Station #9-4750, 16th Street and "R" Street, Merced, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	B	E	T	X
			<----------parts per billion (µg/l)---------->				
	07/28/93	9.99	3,600	38	290	16	920
	10/27/93	10.72	22,000	23	990	26	2,600
	03/31/94	9.11	2,300	45	130	7.0	190
C-8	12/08/89	---	4,800	62	95	11	180
	09/07/90	14.32	3,700	170	180	31	270
	12/20/90	14.20	3,900	120	130	20	180
	03/06/91	14.80	1,200	45	34	6.0	57
	06/28/91	12.65	6,900	180	340	46	640
	09/26/91	14.29	1,400	66	38	9.8	40
	01/27/92	12.60	3,600	100	170	26	260
	04/20/92	10.36	2,600	110	180	32	260
	07/17/92	12.88	1,100	34	35	5.9	52
	10/29/92	14.39	820	29	23	4.8	27
	01/20/93	10.02	6,000	81	200	22	310
	05/03/93	9.75	11,000	75	880	96	2,600
	07/28/93	11.14	2,800	60	92	13	150
	10/27/93	12.01	2,700	49	60	17	90
	03/31/94	10.27	190	8.6	9.1	1.7	11
C-9	09/07/90	14.06	<50	<0.5	<0.5	<0.5	<0.5
	12/20/90	14.03	<50	<0.5	<0.5	<0.5	<0.5
	03/06/91	12.12	<50	<0.5	<0.5	<0.5	<0.5
	06/28/91	12.41	<50	<0.5	<0.5	<0.5	<0.5
	09/26/91	14.02	<50	<0.5	<0.5	<0.5	<0.5
	01/27/92	12.53	<50	<0.5	<0.5	<0.5	<0.5
	04/20/92	10.22	<50	<0.5	<0.5	<0.5	<0.5
	07/17/92	12.64	<50	<0.5	<0.5	<0.5	<0.5
	10/29/92	14.20	<50	<0.5	<0.5	<0.5	<0.5
	01/20/93	9.72	<50	<0.5	<0.5	<0.5	<0.5
	05/03/93	9.55	<50	<0.5	<0.5	<0.5	<1.5
	07/28/93	10.98	<50	<0.5	<0.5	<0.5	<1.5
	10/27/93	11.98	<50	<0.5	<0.5	<0.5	<1.5
	03/31/94	10.17	<50	<0.5	<0.5	<0.5	<0.5
C-10	09/07/90	12.49	<50	<0.5	<0.5	<0.5	<0.5
	12/20/90	12.36	<50	<0.5	<0.5	<0.5	<0.5
	03/06/91	10.45	<50	<0.5	<0.5	0.8	0.8
	06/28/91	10.74	<50	<0.5	<0.5	<0.5	<0.5

-- Table 2 continues on next page --

Table 2. Analytic Results for Ground Water, Chevron Service Station #9-4750, 16th Street and "R" Street, Merced, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	B	E	T	X
			<----------parts per billion (µg/l)---------->				
	09/26/91	12.42	<50	<0.5	<0.5	<0.5	<0.5
	01/27/92	10.84	<50	<0.5	<0.5	1.3	<0.5
	01/27/92[dup]	10.84	<50	<0.5	<0.5	1.3	<0.5
	04/20/92	8.55	<50	<0.5	<0.5	<0.5	<0.5
	07/17/92	11.02	<50	<0.5	<0.5	<0.5	<0.5
	10/29/92	12.40	<50	<0.5	<0.5	<0.5	<0.5
	01/20/93	8.14	<50	<0.5	<0.5	<0.5	<0.5
	05/03/93	7.92	<50	<0.5	<0.5	<0.5	<1.5
	07/28/93	9.36	<50	<0.5	<0.5	<0.5	<1.5
	10/27/93	10.30	<50	<0.5	<0.5	<0.5	<1.5
	03/31/94	8.45	<50	<0.5	<0.5	<0.5	<0.5
C-11	09/07/90	12.22	<50	<0.5	<0.5	<0.5	<0.5
	12/20/90	12.08	<50	<0.5	<0.5	<0.5	<0.5
	03/06/91	16.15	<50	<0.5	<0.5	<0.5	<0.5
	06/28/91	10.52	<50	<0.5	<0.5	<0.5	<0.5
	09/26/91	12.20	<50	<0.5	<0.5	<0.5	<0.5
	01/27/92	10.73	<50	<0.5	<0.5	0.8	<0.5
	04/20/92	8.56	<50	<0.5	<0.5	<0.5	<0.5
	07/17/92	10.78	<50	<0.5	<0.5	<0.5	<0.5
	10/29/92	12.07	<50	<0.5	<0.5	<0.5	<0.5
	01/20/93	7.97	<50	<0.5	<0.5	<0.5	<0.5
	05/03/93	7.95	<50	<0.5	<0.5	<0.5	<1.5
	07/28/93	9.31	<50	<0.5	<0.5	<0.5	<1.5
	10/27/93	10.17	<50	<0.5	<0.5	<0.5	<1.5
	03/31/94	8.43	<50	<0.5	<0.5	<0.5	<0.5
Trip Blank	09/07/90	---	<50	<0.5	<0.5	<0.5	<0.5
	03/06/91	---	<50	<0.5	<0.5	<0.5	<0.5
	06/28/91	---	<50	<0.5	<0.5	<0.5	<0.5
	09/26/91	---	<50	<0.5	<0.5	<0.5	<0.5
	01/27/92	---	<50	<0.5	<0.5	<0.5	<0.5
	04/20/92	---	<50	<0.5	<0.5	<0.5	<0.5
	07/17/92	---	<50	<0.5	<0.5	<0.5	<0.5
	10/29/92	---	<50	<0.5	<0.5	<0.5	<0.5
	01/20/93	---	<50	<0.5	<0.5	<0.5	<0.5
	05/03/93	---	<50	<0.5	<0.5	<0.5	<1.5
	07/28/93	---	<50	<0.5	<0.5	<0.5	<1.5
	10/27/93	---	<50	<0.5	<0.5	<0.5	<1.5
	03/31/94	---	<50	<0.5	<0.5	<0.5	<0.5
DTSC MCLs			NE	1.0	680	100[b]	1,750

-- Table 2 continues on next page --

Table 2. Analytic Results for Ground Water, Chevron Service Station #9-4750, 16th Street and "R" Street, Merced, California (continued)

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified 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
DTSC MCLs = Department of Toxic Substances Control maximum contaminant levels for drinking water
NE = Not established
<n = Not detected at detection limits of n ppb
dup = Duplicate sample
--- = Not analyzed, not measured

Analytical Laboratory:

Superior Precision Analytical, Inc. of San Francisco, California

Notes:

a = Well inaccessible during this sampling event
b = DTSC recommended action level for drinking water; MCL not established

ATTACHMENT A

WATER SAMPLE COLLECTION RECORDS

WEISS ASSOCIATES

WATER SAMPLING DATA

Well Name C-1 Date 3/21/94 Time of Sampling 16:43

Job Name CHEV. SAN LORENZO Job Number 4-551-91 Initials MR

Sample Point Description M (M = Monitoring Well)

Location SW section of station

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

Product Thickness _____ Well Depth 18.63 ft (spec) Well Depth _____ ft(sounded) Well Diameter 3 in

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

3 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 N/A

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.)
	N/A				

SAMPLE: Color Non Odor Slight

Description of matter in sample: None

Sampling Method: Sample port - Evacuation Well

Sample Port: Rate 8.4 gpm Totalizer _____ gal. = 04635/5.0

Time - 16:45

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

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;

= Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)

Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]

ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

WEISS ASSOCIATES

WATER SAMPLING DATA

Well Name C-2 Date 3/3/94 Time of Sampling ~~4/23/16:23~~

Job Name CHEV. SAN LORENZO Job Number 4-551-91 Initials PC

Sample Point Description EW (M = Monitoring Well)

Location SW section of station

WELL DATA: Depth to Water 9.62 ft (static, pumping) Depth to Product — ft.

Product Thickness — Well Depth — ft (spec) Well Depth 18.28 ft(sounded) Well Diameter 3 in

Initial Height of Water in Casing 8.66 ft. = volume 3.18 gal.

3 Casing Volumes to be Evacuated. Total to be evacuated 9.54 gal.

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

Bailer# and type WA #DD Dedicated Y (Y/N)

Other

Evacuation Time: Bo 16:15

Sta. 16:05

Total Evacuation Time 10min

Total Evacuated Prior to Sampling 10 gal.

Evacuation Rate 60 gal. per minute

Depth to Water during Evacuation — ft. — time

Depth to Water at Sampling — ft. — 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

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

SAMPLE: Color None Odor Moderate

Description of matter in sample: Fine tan silt

Sampling Method: Disposable 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
2	C-2	W/V	40ml	N	Y	HCl	EPA 8015/8020	N	SPA

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;

= Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)

Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]

ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

WEISS ASSOCIATES

WATER SAMPLING DATA

Well Name C-3 Date 3/31/94 Time of Sampling 14:56

Job Name CHEV. SAN LORENZO Job Number 4-551-91 Initials PC

Sample Point Description M (M = Monitoring Well)

Location NW section of station

WELL DATA: Depth to Water 11.56 ft (static, pumping) Depth to Product — ft.

Product Thickness — Well Depth 19.26 ft (spec) Well Depth 19.38 ft(sounded) Well Diameter 2 in

Initial Height of Water in Casing 7.82 ft. = volume 2.87 gal.

3 Casing Volumes to be Evacuated. Total to be evacuated 8.61 gal.

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

Bailer# and type WA #DA Dedicated N (Y/N)

Other —

Evacuation Time: Stop 14:52

Start 14:46

Total Evacuation Time 6min

Total Evacuated Prior to Sampling 9 gal.

Evacuation Rate 0.67 gal. per minute

Depth to Water during Evacuation — ft. — time

Depth to Water at Sampling — ft. — time

Evacuated Dry? No After — gal. Time —

100% 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 Non Odor None

Description of matter in sample: Fine brown silt

Sampling Method: Disposable 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
2	C-3	W/V	40ml	N	Y	HCl	EPA 8015/8020	N	SPA

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;

Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)

Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]

ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

WEISS ASSOCIATES

WATER SAMPLING DATA

Well Name C-4 Date 3/31/94 Time of Sampling covered by excavation

Not able to sample. Well dirt

Job Name CHEV. SAN LORENZO Job Number 4-551-91 Initials PL

Sample Point Description M (M = Monitoring Well)

Location

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

Product Thickness ____ Well Depth 19.93 ft (spec) Well Depth ____ ft(sounded) Well Diameter 3 in

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

3 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 Evacuation 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.)

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
2	C-4	W/V	40 ml	N	Y	HCl	EPA 8015/8020	N	SPA

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;

= Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)

Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]

DDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

WEISS ASSOCIATES

WATER SAMPLING DATA

Well Name C-5 Date 3/21/94 Time of Sampling 14:08

Job Name CHEV. SAN LORENZO Job Number 4-551-91 Initials PC

Sample Point Description M (M = Monitoring Well)

Location access road next to station

WELL DATA: Depth to Water 11.00 ft (static, pumping) Depth to Product — ft.

Product Thickness — Well Depth 18.73 ft (spec) Well Depth 18.7 ft (sounded) Well Diameter 3 in

Initial Height of Water in Casing 7.77 ft. = volume 2.85 gal.

3 Casing Volumes to be Evacuated. Total to be evacuated 8.55 gal.

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

Bailer# and type WA #DD Dedicated N (Y/N)

Other —

Evacuation Time: Stop 14:04

Start 13:56

Total Evacation Time 8 min

Total Evacuated Prior to Sampling 9 gal.

Evacuation Rate 1.13 gal. per minute

Depth to Water during Evacuation — ft. — time

Depth to Water at Sampling — ft. — 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 None Odor None

Description of matter in sample: Fine grain silt

Sampling Method: Disposable 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
2	C-5	W/V	40ml	N	Y	HCl	EPA 8015/8020	N	SPA

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 C-6 Date 3/31/94 Time of Sampling 14:37

Job Name CHEV. SAN LORENZO Job Number 4-551-91 Initials AC

Sample Point Description M (M = Monitoring Well)

Location NW corner of station

WELL DATA: Depth to Water 13.00 ft (static) pumping) Depth to Product — ft.

Product Thickness — Well Depth 24.17 ft (spec) Well Depth 24.17 ft(sounded) Well Diameter 2 in

Initial Height of Water in Casing 11.17 ft. = volume 1.82 gal.

3 Casing Volumes to be Evacuated. Total to be evacuated 5.46 gal.

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

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

Other —

Evacuation Time: Stop 14:35

Start 14:24

Total Evacation Time 9 min

Total Evacuated Prior to Sampling 6 gal.

Evacuation Rate .67 gal. per minute

Depth to Water during Evacuation — ft. — time

Depth to Water at Sampling — ft. — 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 None Odor None

Description of matter in sample: Fine, tan silt

Sampling Method: Disposable 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
2	C-6	W/V	40ml	N	Y	HCl	EPA 8015/8020	N	SPA

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 C-7 Date 3/31/94 Time of Sampling 13:46

Job Name CHEV. SAN LORENZO Job Number 4-551-91 Initials DL

Sample Point Description M (M = Monitoring Well)

Location Hesperian southbound, next to median.

WELL DATA: Depth to Water 9.11 ft (static, pumping) Depth to Product — ft.

Product Thickness — Well Depth 24.77 ft (spec) Well Depth 24.83 ft(sounded) Well Diameter 2 in

Initial Height of Water in Casing 15.72 ft. = volume 2.56 gal.

3 Casing Volumes to be Evacuated. Total to be evacuated 7.68 gal.

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

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

Other —

Evacuation Time: Stop 13:46 —

Start 13:33 —

Total Evacation Time 14min

Total Evacuated Prior to Sampling 8 gal.

Evacuation Rate .57 gal. per minute

Depth to Water during Evacuation — ft. — time

Depth to Water at Sampling — ft. — 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 None Odor Moderate

Description of matter in sample: Fine tan silt

Sampling Method: ⓟ Disposable 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
2	C-7	W/V	40ml	N	Y	HCl	EPA 8015/8020	N	SPA

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 C-8 Date 7/31/94 Time of Sampling 13:20

Job Name CHEV. SAN LORENZO Job Number 4-551-91 Initials AC

Sample Point Description M (M = Monitoring Well)

Location Hesperian Blvd., Dept to median

WELL DATA: Depth to Water 9.11 ft (static / pumping) Depth to Product — ft.

Product Thickness — Well Depth 24.83 ft (spec) Well Depth 24.83 ft (sounded) Well Diameter 2 in

Initial Height of Water in Casing 14.56 ft. = volume 2.37 gal.

3 Casing Volumes to be Evacuated. Total to be evacuated 7.11 gal.

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

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

Other —

Evacuation Time: Stop 13:17

Start 13:03

Total Evacation Time 14 min

Total Evacuated Prior to Sampling 8.0 gal.

Evacuation Rate .57 gal. per minute

Depth to Water during Evacuation — ft. — time

Depth to Water at Sampling — ft. — 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 None Odor Moderate

Description of matter in sample: Fine tan silt

Sampling Method: Disposable 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
2	C-8	w/v	40 ml	N	Y	HCl	EPA 8015/8020	N	SPA

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 C-9 Date 3/31/94 Time of Sampling 12:46

Job Name CHEV. SAN LORENZO Job Number 4-551-91 Initials DC

Sample Point Description M (M = Monitoring Well)

Location SW of station. In a parking lot

WELL DATA: Depth to Water ~~8.15~~ 8.10 ft (static, pumping) Depth to Product — ft.

Product Thickness — Well Depth 24.84 ft (spec) Well Depth 24.66 ft(sounded) Well Diameter 2 in

Initial Height of Water in Casing 14.49 ft. = volume 2.36 gal.

3 Casing Volumes to be Evacuated. Total to be evacuated 7.08 gal.

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

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

Other —

Evacuation Time: Stop 12:44 — —

Start 12:31 — —

Total Evacation Time 13 min

Total Evacuated Prior to Sampling 8 gal.

Evacuation Rate 0.62 gal. per minute

Depth to Water during Evacuation — ft. — time

Depth to Water at Sampling — ft. — 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 None Odor None

Description of matter in sample: fine, tan silt

Sampling Method: Disposable 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
2	C-9	W/V	40ml	N	Y	HCl	EPA 8015/8020	N	SPA

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;
= Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)
Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]

ITIONAL COMMENTS, CONDITIONS, PROBLEMS:

WEISS ASSOCIATES

WATER SAMPLING DATA

Well Name C-10 Date 3/31/94 Time of Sampling 12:17

Job Name CHEV. SAN LORENZO Job Number 4-551-91 Initials PC

Sample Point Description M (M = Monitoring Well)

Location SW of station, East side of Hesperian

WELL DATA: Depth to Water 8.45 ft (static, pumping) Depth to Product — ft.

Product Thickness — Well Depth 24.61 ft (spec) Well Depth 24.67 ft(sounded) Well Diameter 2 in

Initial Height of Water in Casing 16.22 ft. = volume 2.64 gal.

3 Casing Volumes to be Evacuated. Total to be evacuated 7.92 gal.

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

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

Other —

Evacuation Time: Stop 12:12

Start 12:00

Total Evacation Time 12min

Total Evacuated Prior to Sampling 8 gal.

Evacuation Rate 0.67 gal. per minute

Depth to Water during Evacuation — ft. — time

Depth to Water at Sampling — ft. — 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 None Odor None

Description of matter in sample: Fine tan silt

Sampling Method: Disposable 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
2	C-10	W/V	40ml	N	Y	HCl	EPA 8015/8020	N	SPA

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 C-11 Date 3/31/94 Time of Sampling ~~12:46~~ (B) 15:39
Job Name CHEV. SAN LORENZO Job Number 4-551-91 Initials PC
Sample Point Description M (M = Monitoring Well)
Location ~~SW~~ of station, In a parking lot Across street from station

WELL DATA: Depth to Water 8.43 ft (static, pumping) Depth to Product — ft.
Product Thickness — Well Depth 24.68 ft (spec) Well Depth 24.6 ft(sounded) Well Diameter 2 in
Initial Height of Water in Casing 16.18 ft. = volume 2.64 gal.
3 Casing Volumes to be Evacuated. Total to be evacuated 7.92 gal.

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

Evacuation Time: Stop ~~12:46~~ 15:38
Start ~~12:37~~ 15:25
Total Evacation Time 13 min
Total Evacuated Prior to Sampling 8 gal.
Evacuation Rate 0.62 gal. per minute
Depth to Water during Evacuation — ft. — time
Depth to Water at Sampling — ft. — 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 None Odor None
Description of matter in sample: Fine tan silt
Sampling Method: Disposable 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
2	C-11	W/V	40ml	N	Y	HCl	EPA 8015/8020	N	SPA

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 TRIP BLANKS Date 3/31/94 Time of Sampling 09:00

Job Name CHEV. SAN LORENZO Job Number 4-551-91 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 _____

N/A

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
2	TB-LB	W/V	40ml	N	Y	HCl	EPA 8015/8020	N	SPA

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

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

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

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 15370

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
ug/L = parts per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Water: 5000ug/L

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Water: 50ug/L

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Water: 50ug/L

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Water: 0.5ug/L

ANALYTE	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	93/93	0%	67-129
Benzene:	96/96	0%	74-125
Toluene:	105/105	0%	74-125
Ethyl Benzene:	101/100	1%	74-125
Total Xylenes:	103/102	1%	74-125

4/7/94

Senior Chemist
Account Manager

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

Weiss Associates
Attn: DEB UNDERWOOD

Project 4-551-91
Reported 04/07/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed	Matrix
15370- 1	C-1	03/31/94	04/06/94	Water
15370- 2	C-2	03/31/94	04/06/94	Water
15370- 3	C-3	03/31/94	04/06/94	Water
15370- 4	C-5	03/31/94	04/06/94	Water
15370- 5	C-6	03/31/94	04/06/94	Water
15370- 6	C-7	03/31/94	04/06/94	Water
15370- 7	C-8	03/31/94	04/07/94	Water
15370- 8	C-9	03/31/94	04/07/94	Water
15370- 9	C-10	03/31/94	04/07/94	Water
15370-10	C-11	03/31/94	04/07/94	Water

RESULTS OF ANALYSIS

Laboratory Number:	15370- 1	15370- 2	15370- 3	15370- 4	15370- 5
Gasoline:	530	12000	310	ND<50	ND<50
Benzene:	23	300	1.2	ND<0.5	ND<0.5
Toluene:	1.2	96	ND<0.5	ND<0.5	ND<0.5
Ethyl Benzene:	10	510	19	ND<0.5	ND<0.5
Total Xylenes:	120	2700	54	ND<0.5	ND<0.5
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

Laboratory Number:	15370- 6	15370- 7	15370- 8	15370- 9	15370-10
Gasoline:	2300	190	ND<50	ND<50	ND<50
Benzene:	45	8.6	ND<0.5	ND<0.5	ND<0.5
Toluene:	7	1.7	ND<0.5	ND<0.5	ND<0.5
Ethyl Benzene:	130	9.1	ND<0.5	ND<0.5	ND<0.5
Total Xylenes:	190	11	ND<0.5	ND<0.5	ND<0.5
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

Weiss Associates
Attn: DEB UNDERWOOD

Project 4-551-91
Reported 04/07/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed	Matrix
15370-11	TB-LB	03/31/94	04/07/94	Water

RESULTS OF ANALYSIS

Laboratory Number: 15370-11

Gasoline:	ND<50
Benzene:	ND<0.5
Toluene:	ND<0.5
Ethyl Benzene:	ND<0.5
Total Xylenes:	ND<0.5
Concentration:	ug/L

Fax copy of Lab Report and COC to Chevron Contact: ☐ No 7583810

Chain-of-Custody-Record

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

Chevron Facility Number: 9-0504
Facility Address: 15900 HESPERIAN BLVD., SAN LORENZO
Consultant Project Number: 4-551-91
Consultant Name: WEISS ASSOCIATES
Address: 5500 SHELLMOUND ST., EMERYVILLE, CA 94608
Project Contact (Name): DEBORAH UNDERWOOD
(Phone): (510) 450-6000 (Fax Number): (510) 547-5043

Chevron Contact (Name): MARK MILLER
(Phone): (510) 842-8134
Laboratory Name: SUPERIOR PRECISION ANALYTICAL
Laboratory Release Number: 7583810
Samples Collected by (Name): Paul Cardoza
Collection Date: 3/31/94
Signature: Paul Cardoza

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)	Analyses To Be Performed: 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
C-1		2	W	G	16:43	HCl	Y	X												
C-2					16:23															
C-3					14:56															
C-5					14:08															
C-6					14:37															
C-7					13:46															
C-8					13:20															
C-9					12:46															
C-10					12:17															
C-11					15:39															
~~C-12~~ TB/LB					09:00															

Please initial: TAP
Samples Stored in ice: 4° 20C
Appropriate containers: 4°
Samples preserved: 4°
VOA's without headspace: 4°
Comments: OK

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Paul Cardoza	Weiss Assoc.	3/31/94 14:50	Joyce Adams	WA	4/1/94 12:13
Joyce Adams	WA	4/1/94 12:13		AERO	1242 4/1/94
		1APR-1250	Received For Laboratory By (Signature)		Date/Time 4/1/94 1250

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

⇒ Samples stored in secure area 3/31/94 - 4/1/94