



Chevron

90 JUL 15 1993

July 9, 1993

Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, CA 94583

Marketing Department
Phone 510 842 9500

Ms. Juliet Shin
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

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

Dear Ms. Shin:

Enclosed is the Groundwater Monitoring and Sampling Activities report dated June 15, 1993, prepared by our consultant Groundwater Technology, Inc. for the above referenced site. As indicated in the report, groundwater samples collected were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and BTEX. Benzene was detected only in monitor wells C-3, C-7, and C-8 at concentrations of 6.8, 29, and 75 ppb, respectively. Depth to groundwater was measured at approximately 7.9 to 12.5 feet below grade, and the direction of flow is to the south.

The ground water extraction system at this site was repaired and has been operating continuously since April 7, 1993. As of May 10, 1993, the system has treated approximately 260,000 gallons of ground water.

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

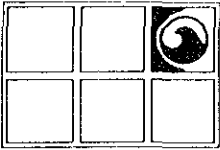
Mark A. Miller
Site Assessment and Remediation Engineer

Enclosure

cc: Mr. Eddy So, RWQCB - Bay Area
Mr. Thomas Berry, Weiss Associates
Mr. S.A. Willer
File (9-0504 QM4)

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

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GROUNDWATER TECHNOLOGY, INC.

4057 Port Chicago Highway, Concord, CA 94520 (415) 671-2387

FAX: (415) 685-9148

June 15, 1993

Project No. 020302087

Mr. Mark Miller
Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, CA 94583

SUBJECT: Groundwater Monitoring and Sampling Activities
Chevron Service Station No. 9-0504
15900 Hesperian Boulevard, San Lorenzo, California

Dear Mr. Miller:

Groundwater Technology, Inc. presents the attached quarterly groundwater monitoring and sampling data collected on May 3, 1993. Nine of the 11 groundwater monitoring wells at this site were gauged to measure depth to groundwater (DTW) and to check for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not detected in the monitoring wells. Monitoring wells C-1 and C-2 were not monitored or sampled. A potentiometric surface map (Figure 1) and a summary of groundwater monitoring data (Table 1) are presented in Attachments 1 and 2, respectively. After the DTW was measured, the monitoring wells were purged and sampled, except monitoring wells C-1 and C-2. The groundwater samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons-as-gasoline. Results of the chemical analyses are summarized in Table 1. The laboratory report and chain-of-custody record are included in Attachment 3. Monitoring-well purge water was transported by Groundwater Technology to the Chevron Terminal in Richmond, California, for recycling.

Groundwater Technology is pleased to assist Chevron on this project. If you have any questions or comments, please call our Concord office at (510) 671-2387.

Sincerely,
Groundwater Technology, Inc.
Written/Submitted by

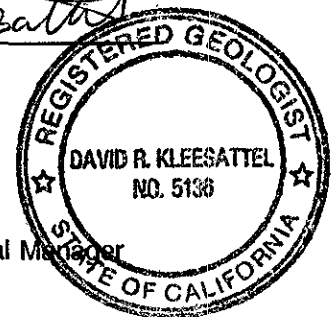
Tim Watchers
Tim Watchers
Project Geologist

Attachment 1 Figure
Attachment 2 Table
Attachment 3 Laboratory Report

Groundwater Technology, Inc.
Reviewed/Approved by

David R. Kleesattel
David R. Kleesattel
Registered Geologist
No. 5136

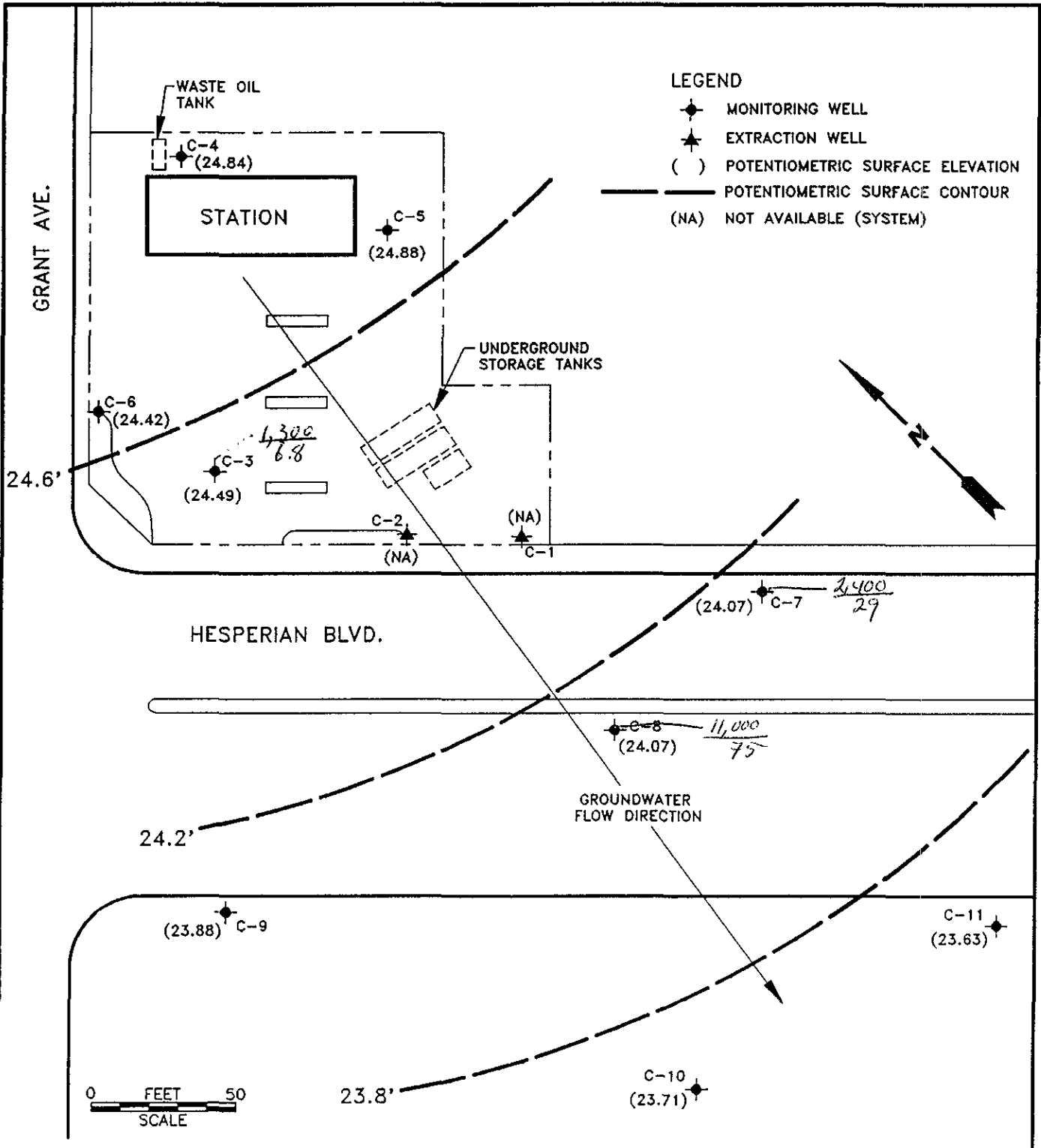
For:
John S. Gaines
Vice President, General Manager
West Region



2087R013.030

ATTACHMENT 1

FIGURE



		GROUNDWATER TECHNOLOGY 4057 PORT CHICAGO HWY. CONCORD, CA 94520 (510) 671-2387		POTENTIOMETRIC SURFACE MAP (5/3/93)			
CLIENT: CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION No. 9-0504			LOCATION: 15900 HESPERIAN BLVD. SAN LORENZO, CALIFORNIA		REV. NO.: 0	DATE: 6/11/93	
PM <i>IAW</i>	PE/RG <i>ORK</i>	DESIGNED TW	DETAILED ML	ACAD FILE: PSM5393/SP693	PROJECT NO.: 020204115	FIGURE: 1	

ATTACHMENT 2

TABLE

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-0504
15900 Hesperian Boulevard, San Leandro, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	TPH-D	TOG	TPH-O	DTW (ft)	SPT (ft)	WTE (ft)
C-1 33.93	06/06/89	5,100	250	170	200	990	--	--	--	--	0.00	--
	12/08/89	--	--	--	--	--	--	--	--	13.14	0.01	--
	09/07/90	--	--	--	--	--	--	--	--	14.04	0.03	19.91
	12/20/90	--	--	--	--	--	--	--	--	13.87	0.01	20.07
	03/15/91	37,000	220	53	580	1,900	--	--	--	11.40	0.00	22.53
	06/28/91	3,300	110	6.2	100	350	--	--	--	12.25	0.00	21.68
	09/26/91	3,200	220	6.9	230	710	--	--	--	14.02	0.00	19.91
	01/27/92	330	20	0.6	10	48	--	--	--	12.63	0.00	21.30
	04/20/92	2,700	130	3.4	200	690	--	--	--	10.43	0.00	23.50
	07/17/92	490	17	<0.5	19	52	--	--	--	12.61	0.00	21.32
	10/29/92	--	--	--	--	--	--	--	--	--	0.00	--
	01/20/93	--	--	--	--	--	--	--	--	9.42	0.00	24.51
	05/03/93	--	--	--	--	--	--	--	--	--	--	--
C-2 34.21	06/06/89	130,000	14,000	28,000	3,400	24,000	--	--	--	--	0.00	--
	12/08/89	--	--	--	--	--	--	--	--	13.44	0.15	--
	09/07/90	--	--	--	--	--	--	--	--	14.28	0.10	20.01
	12/20/90	--	--	--	--	--	--	--	--	14.06	0.01	20.16
	03/15/91	1,200,000	4,700	16,000	13,000	140,000	--	--	--	11.59	0.01	22.63
	06/28/91	150,000	3,500	4,200	2,100	16,000	--	--	--	12.55	Sheen	21.66
	09/26/91	4,900	220	290	130	880	--	--	--	14.20	0.00	20.01
	01/27/92	8,200	510	590	230	1,300	--	--	--	12.46	0.00	21.75
	04/20/92	19,000	1,700	1,700	930	4,700	--	--	--	10.24	0.00	23.97
	07/17/92	20,000	950	640	1,300	4,700	--	--	--	12.81	0.00	21.40
	10/29/92	--	--	--	--	--	--	--	--	--	0.00	--
	01/20/93	--	--	--	--	--	--	--	--	8.79	0.00	25.42
	05/03/93	--	--	--	--	--	--	--	--	--	--	--

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-0504
15900 Hesperian Boulevard, San Leandro, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	TPH-D	TOG	TPH-O	DTW (ft)	SPT (ft)	WTE (ft)
C-3 35.46	06/06/89	2,600	63	20	390	370	---	---	---	---	---	---
	12/08/89	680	6	1	31	58	---	---	---	---	---	---
	09/07/90	490	6	<0.5	41	120	---	---	---	15.31	0.00	20.15
	09/07/90	460	6	<0.5	40	110	---	---	---	15.31	0.00	20.15
	12/20/90	100	5	<0.5	27	130	---	---	---	15.17	0.00	20.29
	03/06/91	1,300	7	<0.5	75	250	---	---	---	13.27	0.00	22.19
	03/06/91	1,400	8	<0.5	76	250	---	---	---	13.27	0.00	22.19
	06/28/91	770	6.0	<0.5	81	71	---	---	---	13.67	0.00	21.79
	06/28/91	990	5.5	<0.5	86	75	---	---	---	13.67	0.00	21.79
	09/26/91	1,400	7.9	<0.5	98	340	---	---	---	15.32	0.00	20.14
	01/27/92	150	0.7	<0.5	12	12	---	---	---	13.91	0.00	21.55
	04/20/92	1,600	9.3	1.0	190	370	---	---	---	11.66	0.00	23.80
	07/17/92	460	18	<0.5	20	52	---	---	---	13.96	0.00	21.50
	10/29/92	520	2.4	1.0	30	79	---	---	---	15.51	0.00	19.95
	01/20/93	4,200	7.4	<0.5	140	380	---	---	---	10.99	0.00	24.47
05/03/93	1,300	6.8	3.2	71	170	---	---	---	10.97	0.00	24.49	
C-4 35.78	06/06/89	<50	<0.05	<1	<1	<3	---	---	<500	---	---	---
	12/08/89	<500	<0.5	<0.5	<0.5	<0.5	<1,000	<5,000	---	---	---	---
	09/07/90	<50	<0.5	<0.5	<0.5	<0.5	---	<5,000	---	15.58	0.00	20.20
	12/20/90	170	1	<0.5	<0.5	4	---	---	---	15.42	0.00	20.36
	03/06/91	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	13.54	0.00	22.24
	06/28/91	<50	<0.5	<0.5	<0.5	<0.8	---	---	---	13.93	0.00	21.85
	09/26/91	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	15.64	0.00	20.14
	09/26/91	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	15.64	0.00	20.14
	01/27/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	13.96	0.00	21.82
	04/20/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	11.71	0.00	24.07
	07/17/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	14.19	0.00	21.59
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	15.72	0.00	20.06
	01/20/93	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	11.17	0.00	24.61
05/03/93	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	10.94	0.00	24.84	

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-0504
15900 Hesperian Boulevard, San Leandro, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	TPH-D	TOG	TPH-O	DTW (ft)	SPT (ft)	WTE (ft)
C-5 35.31	06/06/89	<50	<0.05	<1	<1	<3	--	--	--	--	--	--
	12/08/89	<500	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	09/07/90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	15.10	0.00	20.21
	12/20/90	80	<0.5	<0.5	<0.5	<0.5	--	--	--	14.94	0.00	20.37
	03/06/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	13.06	0.00	22.25
	06/28/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	13.46	0.00	21.85
	09/26/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	15.14	0.00	20.17
	01/27/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	13.31	0.00	22.00
	04/20/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	11.10	0.00	24.21
	07/17/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	13.73	0.00	21.58
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	15.20	0.00	20.11
	01/20/93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	10.72	0.00	24.59
	05/03/93	<50	<0.5	<0.5	<0.5	<0.5	<1.5	--	--	10.43	0.00	24.88
	C-6 36.89	12/08/89	<500	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/07/90		57	<0.5	<0.5	0.6	4	--	--	--	16.83	0.00	20.06
12/20/90		<50	<0.5	<0.5	<0.5	<0.5	--	--	--	16.66	0.00	20.23
03/06/91		<50	<0.5	<0.5	<0.5	<0.5	--	--	--	14.80	0.00	22.09
06/28/91		<50	<0.5	<0.5	<0.5	<0.5	--	--	--	15.16	0.00	21.73
09/26/91		<50	<0.5	<0.5	<0.5	<0.5	--	--	--	16.82	0.00	20.07
01/27/92		<50	<0.5	<0.5	<0.5	<0.5	--	--	--	15.44	0.00	21.45
04/20/92		<50	<0.5	<0.5	<0.5	<0.5	--	--	--	13.17	0.00	23.72
07/17/92		<50	<0.5	<0.5	<0.5	<0.5	--	--	--	15.44	0.00	21.45
10/29/92		<50	<0.5	<0.5	<0.5	<0.5	--	--	--	16.98	0.00	19.91
01/20/93		<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	12.47	0.00	24.42
05/03/93		<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	12.47	0.00	11.95

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15900 Hesperian Boulevard, San Leandro, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	TPH-D	TOG	TPH-O	DTW (ft)	SPT (ft)	WTE (ft)
C-7 32.75	12/08/89	1,700	32	12	17	150	--	--	--	--	--	--
	09/07/90	880	84	23	46	180	--	--	--	13.02	0.00	19.73
	12/20/90	560	24	3	19	21	--	--	--	12.28	0.00	20.47
	03/06/91	240	25	2	4	26	--	--	--	16.92	0.00	15.83
	06/28/91	2,600	130	13	82	220	--	--	--	11.31	0.00	21.44
	09/26/91	8,100	47	35	350	1,200	--	--	--	12.28	0.00	20.47
	01/27/92	12,000	170	40	420	830	--	--	--	11.43	0.00	21.32
	04/20/92	1,200	80	11	90	110	--	--	--	9.28	0.00	23.47
	07/17/92	2,400	20	7.4	95	200	--	--	--	11.49	0.00	21.26
	10/29/92	69	1.3	<0.5	3.8	7.2	--	--	--	13.05	0.00	19.70
	01/20/93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	8.69	0.00	24.06
	05/03/93	2,400	29	8.6	140	210	--	--	--	8.68	0.00	24.07
	C-8 33.82	12/08/89	4,800	62	11	95	180	--	--	--	--	--
09/07/90		3,700	170	31	180	270	--	--	--	14.32	0.00	19.50
12/20/90		3,900	120	20	130	180	--	--	--	14.21	0.00	19.61
03/06/91		1,200	45	6	34	57	--	--	--	14.80	0.00	19.02
06/28/91		6,900	180	46	340	640	--	--	--	12.65	0.00	21.17
09/26/91		1,400	66	9.8	38	40	--	--	--	14.29	0.00	19.53
01/27/92		3,600	100	26	170	260	--	--	--	12.60	0.00	21.22
04/20/92		2,600	110	32	180	260	--	--	--	10.36	0.00	23.46
07/17/92		1,100	34	5.9	35	52	--	--	--	12.88	0.00	20.94
10/29/92		820	29	4.8	23	27	--	--	--	14.39	0.00	19.43
01/20/93		6,000	81	22	200	310	--	--	--	10.02	0.00	23.80
05/03/93		11,000	75	96	880	2,600	--	--	--	9.75	0.00	24.07

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Chevron Service Station No. 9-0504
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C-9 33.43	09/07/90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	14.06	0.00	19.37
	12/20/90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	14.03	0.00	19.40
	03/06/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	12.12	0.00	21.31
	06/28/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	12.41	0.00	21.02
	09/26/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	14.02	0.00	19.41
	01/27/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	12.53	0.00	20.90
	04/20/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	10.22	0.00	23.21
	07/17/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	12.64	0.00	20.79
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	14.20	0.00	19.23
	01/20/93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	9.72	0.00	23.71
05/03/93	<50	<0.5	<0.5	<0.5	<0.5	<1.5	--	--	9.55	0.00	23.88	
C-10 31.63	09/07/90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	12.49	0.00	19.14
	12/20/90	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	12.36	0.00	19.27
	03/06/91	<50	<0.5	0.8	<0.5	0.8	--	--	--	10.45	0.00	21.18
	06/28/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	10.74	0.00	20.89
	09/26/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	12.42	0.00	19.21
	01/27/92	<50	<0.5	1.3	<0.5	<0.5	--	--	--	10.84	0.00	20.79
	01/27/92	<50	<0.5	1.3	<0.5	<0.5	--	--	--	10.84	0.00	20.79
	04/20/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	8.55	0.00	23.08
	07/17/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	11.02	0.00	20.61
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	12.40	0.00	19.23
01/20/93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	8.14	0.00	23.49	
05/03/93	<50	<0.5	<0.5	<0.5	<0.5	<1.5	--	--	7.92	0.00	23.71	

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-0504
15900 Hesperian Boulevard, San Leandro, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	TPH-D	TOG	TPH-O	DTW (ft)	SPT (ft)	WTE (ft)
C-11 31.58	09/07/90	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	12.22	0.00	19.36
	12/20/90	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	12.08	0.00	19.50
	03/06/91	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	16.15	0.00	15.43
	06/28/91	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	10.52	0.00	21.06
	09/26/91	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	12.20	0.00	19.38
	01/27/92	<50	<0.5	0.8	<0.5	<0.5	—	—	—	10.73	0.00	20.85
	04/20/92	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	8.56	0.00	23.02
	07/17/92	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	10.78	0.00	20.80
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	12.07	0.00	19.51
	01/20/93	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	7.97	0.00	23.61
05/03/93	<50	<0.5	<0.5	<0.5	<0.5	<1.5	—	—	7.95	0.00	23.63	
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	<0.5	<1.5	—	—	—	—	—

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-0504
15900 Hesperian Boulevard, San Leandro, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	TPH-D	TOG	TPH-O	DTW (ft)	SPT (ft)	WTE (ft)
RINSATE	03/06/91	<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	--	--	--	--	--	--

Concentrations in parts per billion

-- = Not measured, not sampled, not analyzed

DTW = Depth to water

WTE = Water-table elevation

SPT = Separate-phase thickness

TPH-G = Total petroleum hydrocarbons-as-gasoline

TPH-D = Total petroleum hydrocarbons-as-diesel fuel

TOG = Total oil and grease

TPH-O = Total petroleum hydrocarbons-as-oil

Data from June 6, 1989, to January 20, 1993, from Alton Geosciences report dated March 10, 1993

ATTACHMENT 3
LABORATORY REPORT



Superior Precision Analytical, Inc.

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

GROUNDWATER TECHNOLOGY, INC.
Attn: SANDRA LINDSEY

Project 020204105.0601
Reported 05/10/93

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed	Matrix
88497- 1	TB-LB	05/03/93	05/10/93	Water
88497- 3	C4	05/03/93	05/10/93	Water
88497- 5	C5	05/03/93	05/10/93	Water
88497- 7	C6	05/03/93	05/10/93	Water
88497- 9	C9	05/03/93	05/08/93	Water
88497-11	C10	05/03/93	05/08/93	Water
88497-13	C11	05/03/93	05/08/93	Water
88497-15	C7	05/03/93	05/08/93	Water
88497-17	C3	05/03/93	05/08/93	Water
88497-19	C8	05/03/93	05/08/93	Water

RESULTS OF ANALYSIS

Laboratory Number: 88497- 1 88497- 3 88497- 5 88497- 7 88497- 9

Gasoline:	ND<50	ND<50	ND<50	ND<50	ND<50
Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Toluene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Xylenes:	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<1.5

Concentration: ug/L ug/L ug/L ug/L ug/L

Laboratory Number: 88497-11 88497-13 88497-15 88497-17 88497-19

Gasoline:	ND<50	ND<50	2400	1300	11000
Benzene:	ND<0.5	ND<0.5	29	6.8	75
Toluene:	ND<0.5	ND<0.5	8.6	3.2	96
Ethyl Benzene:	ND<0.5	ND<0.5	140	71	880
Xylenes:	ND<1.5	ND<1.5	210	170	2600

Concentration: ug/L ug/L ug/L ug/L ug/L



Superior Precision Analytical, Inc.

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

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

Page 2 of 2
QA/QC INFORMATION
SET: 88497

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:	88/91	3%	70-130
Benzene:	80/87	8%	70-130
Toluene:	90/96	6%	70-130
Ethyl Benzene:	93/102	9%	70-130
Xylenes:	92/101	9%	70-130

Richard Srna, Ph.D.

Richard Srna
Laboratory Director

<p>Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591</p>	<p>Chevron Facility Number <u>9-0504</u> Facility Address <u>15900 Hesperian Blvd, San Lorenzo</u> Consultant Project Number <u>020204105.0610</u> Consultant Name <u>Groundwater Technology, Inc.</u> Address <u>4057 Port Chicago Hwy, Concord, CA 94520</u> Project Contact (Name) <u>Sandra Lindsey</u> (Phone) <u>671-2387</u> (Fax Number) <u>685-9148</u></p>	<p>Chevron Contact (Name) <u>Mark Miller</u> (Phone) <u>842-8134</u> Laboratory Name <u>Superior Analytical</u> Laboratory Release Number <u>758-3810</u> Samples Collected by (Name) <u>Randy Ray Phillips</u> Collection Date <u>5/3/93</u> Signature <u>Randy Ray Phillips</u></p>
--	--	---

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)	Analyses To Be Performed											Remarks	
								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)	Hold				
TB-LB	1	1v	W	G		Hcl	Yes	X											Do Not Bill TB-LB Remarks	
RWC4	2	1v			12:45															
C4	3	3v			12:45			X												
RBC5	4	1v			12:55			X												
C5	5	3v			12:55			X												
RBC6	6	1v			1:05			X												
C6	7	3v			1:05			X												
RBC9	8	1v			1:15			X												
C9	9	3v			1:15			X												
RBC10	10	1v			1:20			X												
C10	11	3v			1:20			X												
RBC11	12	1v			1:25			X												
C11	13	3v			1:25			X												

Please Initial: RP
 Samples Stored in ice: yes
 Appropriate Containers: SC
 Samples: ✓
 VOA's without headspace: ✓
 Comments: ✓

Relinquished By (Signature) <u>Randy Ray Phillips</u>	Organization <u>G.T.I.</u>	Date/Time <u>5/4/93 10:30</u>	Received By (Signature)	Organization	Date/Time	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>SK Wamey</u>		Date/Time <u>5493 10:20</u>	

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 020204105.0610
Consultant Name Groundwater Technology, Inc.
Address 4057 Port Chicago Hwy, Concord, CA 94520
Project Contact (Name) Sandra Lindsey
(Phone) 671-2387 (Fax Number) 685-9148

Chevron Contact (Name) Mark Miller
(Phone) 842-8134
Laboratory Name Superior Analytical
Laboratory Release Number 758-3810
Samples Collected by (Name) Randy Ray Phillips
Collection Date 5/3/93
Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed										Remarks				
								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)							
RBC7	14	1v	W	G	1:30	Hcl	Yes															
C7	15	3v			1:30			X														
RBC3	16	1v			1:35			X														
C3	17	3v			1:35			X														
RBC8	18	1v			1:40			X														
C8	19	3v			1:40			X														

Page 2 of 2

Please Print (Signature)
Samples Stored in Ice yes 5°C
Appropriate containers _____
Samples preserved _____
VDA's will not be performed _____
Comments _____

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>G.T.I.</u>	Date/Time <u>5/4/93 10:30</u>	Received By (Signature) _____	Organization _____	Date/Time _____	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received By (Signature) _____	Organization _____	Date/Time _____	
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received For Laboratory By (Signature) <u>[Signature]</u>	Organization _____	Date/Time <u>5-4-93 70:20</u>	

COC-3.DWG/03 97/1/CH