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Chevron

March 1, 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
80 Swan Way, Room 200
Oakland, CA 94621

**Re: Chevron Service Station #9-0290
1802 Webster Street, Alameda, CA**

Dear Ms. Shin:

Enclosed is the quarterly Groundwater Monitoring and Sampling Activities report dated November 22, 1993, prepared by our consultant Groundwater Technology, Inc. for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline (TPH-G), total petroleum hydrocarbons as diesel (TPH-D), and BTEX. Benzene was detected in monitor wells B-1, B-3, B-4, B-5, and B-7 at concentrations of 730, 520, 1200, 2, and 3.1 ppb, respectively. Depth to ground water was measured at approximately 5.1 to 7.1 feet below grade and the direction of flow is to the north - northeast.

Separate phase hydrocarbons (SPH) are being removed on a weekly basis from monitor wells A-1 and A-2. Absorbent pads are currently employed to remove the SPH due to its viscous nature. A summary of the baling program is presented in Tables 1 and 2 of the enclosed report.

We are currently evaluating an appropriate course of action in response to your letter of October 14, 1993, requesting confirmation whether the 8" sewer main located in Webster Street is or is not providing a conduit for the migration of hydrocarbons in ground water. We expect the next quarterly report to be available by April 1, 1994, and anticipate providing a response at that time.

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

A handwritten signature in cursive script, appearing to read "Mark A. Miller".

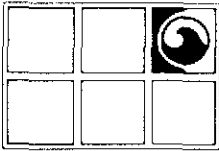
Mark A. Miller
Site Assessment and Remediation Engineer

Enclosure

cc: Mr. Eddy So, RWQCB-Bay Area
Mr. S.A. Willer

Ms. Louise Van De Deere
Housing Authority of the City of Alameda
701 Atlantic Avenue
Alameda, CA 94501

File: 9-0290 QM2



GROUNDWATER TECHNOLOGY, INC.

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

FAX: (415) 685-9148

November 22, 1993

Project No. 020204104

Mr. Mark Miller
Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, CA 94583-0804


SUBJECT: *Groundwater Monitoring and Sampling Activities*
Chevron Service Station No. 9-0290
1802 Webster Street, Alameda, California

Dear Mr. Miller:

Groundwater Technology, Inc. presents the attached quarterly groundwater monitoring and sampling data collected on October 19, 1993. The ten groundwater monitoring wells at the site were gauged to measure depth to groundwater (DTW) and to check for the presence of separate-phase hydrocarbons. Separate hydrocarbons were detected in monitoring wells A-1 and A-2 at a thickness of 0.10 and 1.41, respectively. **Groundwater Technology has been removing product on a weekly basis from wells A-1 and A-2 (Tables 1 and 2).** A potentiometric surface map (Figure 1) and a summary of groundwater monitoring data (Table 3) are presented in Attachments 1 and 2, respectively. After the DTW was measured, each monitoring well was purged and sampled, except wells A-1 and A-2. The groundwater samples were analyzed for benzene, toluene, ethylbenzene, and xylenes; total petroleum hydrocarbons-as-gasoline; and total petroleum hydrocarbons-as-diesel fuel. Results of the chemical analyses are summarized in Table 3. 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 contact our Concord office at (510) 671-2387.

Sincerely,
Groundwater Technology, Inc.
Written/Submitted by




Tim Watchers
Project Geologist

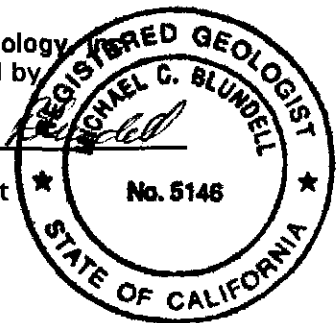
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Attachment 1 Figure
Attachment 2 Tables
Attachment 4 Laboratory Report

Groundwater Technology
Reviewed/Approved by



Michael C. Blundel
Registered Geologist
No. 5146

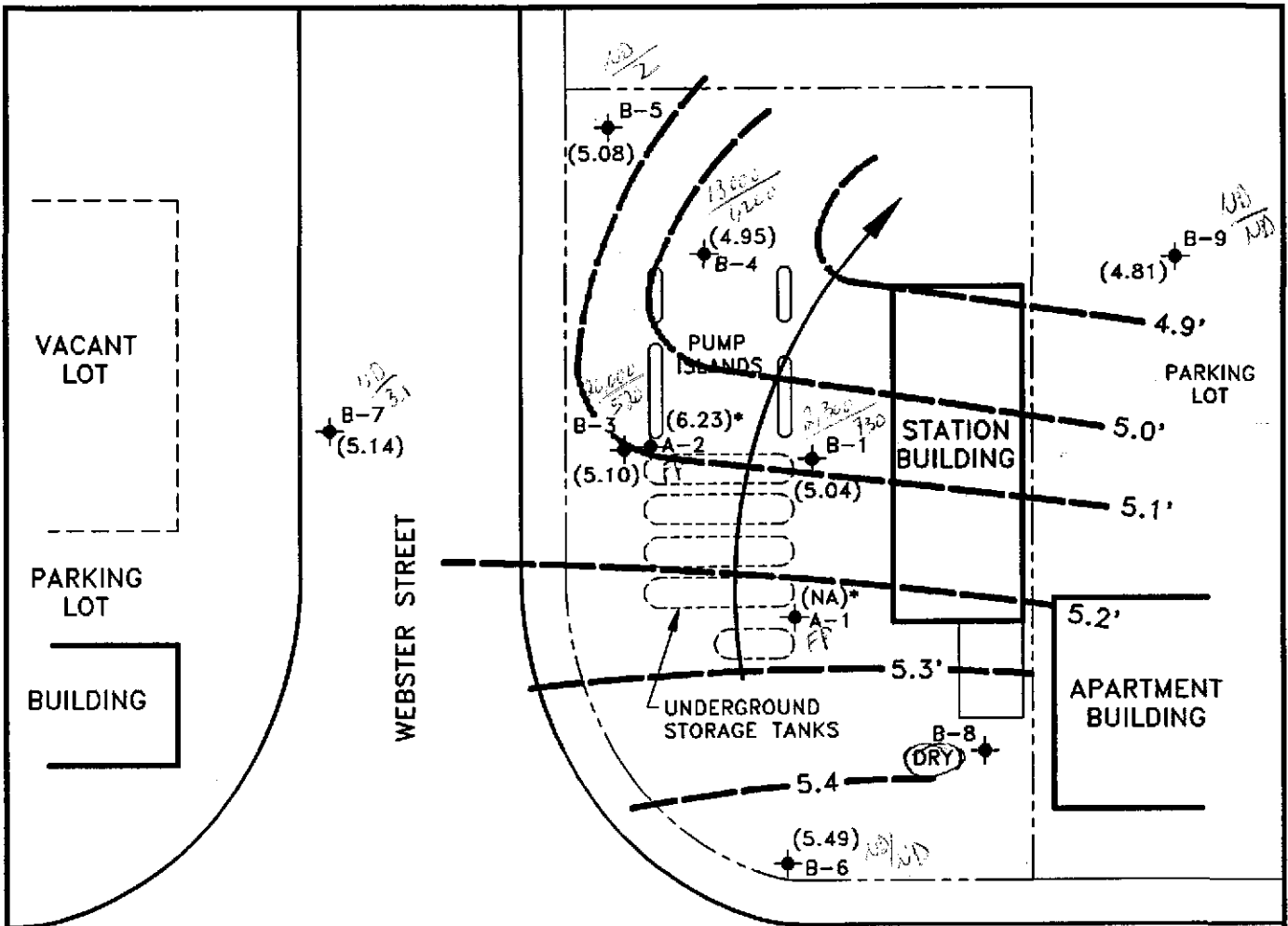


For:
Wendell W. Lattz
Vice President, General Manager
West Region

4104R033.020

ATTACHMENT 1

Figure

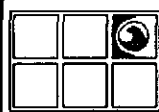


LEGEND

- ◆ MONITORING WELL
- () POTENTIOMETRIC SURFACE ELEVATION (FT. MSL)
- POTENTIOMETRIC SURFACE CONTOUR
- ➔ GROUNDWATER FLOW DIRECTION
- * TANK PIT WELL; DATA NOT USED IN CONTOURING
- NA NOT AVAILABLE
- FP Free Product
- TPH (pph)*
- Benz*

BUENA VISTA AVENUE

B.P. STATION



GROUNDWATER TECHNOLOGY 4057 PORT CHICAGO HWY.
CONCORD, CA 94520
(510) 671-2387

**POTENTIOMETRIC SURFACE MAP
(10/19/93)**

CLIENT: CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION No. 9-0290		LOCATION: 1802 WEBSTER STREET ALAMEDA, CALIFORNIA		REV. NO.: 0	DATE: 11/16/93
PM <i>I. A...</i>	PE/RG <i>me</i>	DESIGNED TW	DETAILED CY	ACAD FILE: PSMN93	PROJECT NO.: 020204098
				FIGURE: 1	

ATTACHMENT 2

Tables



TABLE 1
SEPARATE-PHASE HYDROCARBONS BAILED
MONITORING WELL A-1
Chevron Service Station No. 9-0290
1802 Webster Street, Alameda, California

Date	Amount Product Bailed (gallons)	Total Product Bailed (gallons)
06/11/93	2 gallons	2.00
06/15/93	0.13	2.13
06/18/93	0.13	2.26
06/22/93	0.5 gallon	2.76
06/29/93	*	2.76
07/09/93	**	2.76
07/15/93	***	2.76
07/20/93	***	2.76
07/27/93	***	2.76
08/06/93	***	2.76
08/10/93	***	2.76
08/16/93	***	2.76
09/16/93	***	2.76
09/24/93	***	2.76
10/01/93	***	2.76
10/07/93	***	2.76
10/13/93	***	2.76
10/20/93	***	2.76
10/28/93	***	2.76

no separate product?

- * = Absorbent pad installed to collect separate-phase product
- ** = Absorbent pads turned over
- *** = Replaced absorbent pad

TABLE 2
SEPARATE-PHASE HYDROCARBONS BAILED
MONITORING WELL A-2
Chevron Service Station No. 9-0290
1802 Webster Street, Alameda, California

Date	Amount Product Bailed (gallons)	Total Product Bailed (gallons)
06/11/93	1.00	1.00
06/15/93	0.13	1.13
06/18/93	0.26	1.39
06/22/93	0.50	1.89
06/29/93	*	1.89
07/09/93	**	1.89
07/15/93	***	1.89
07/20/93	***	1.89
07/27/93	***	1.89
08/06/93	***	1.89
08/10/93	***	1.89
08/16/93	***	1.89
09/16/93	***	1.89
09/24/93	***	1.89
10/01/93	***	1.89
10/07/93	***	1.89
10/13/93	***	1.89
10/20/93	***	1.89
10/28/93	***	1.89

As in case product?

- * = Absorbent pad installed to collect separate-phase product
- ** = Absorbent pads turned over
- *** = Replaced absorbent pad

TABLE 3
HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL RESULTS
 Chevron Service Station No. 9-0290
 1802 Webster Street, Alameda, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	TOG	TPH-D	DTW (ft)	SPT (ft)	WTE (ft)
A1 8.13	09/20/91	---	---	---	---	---	---	---	9.23	1.58	0.48
	10/09/91	---	---	---	---	---	---	---	6.67	0.00	1.46
	10/17/91	---	---	---	---	---	---	---	7.28	0.58	1.43
	10/23/91	---	---	---	---	---	---	---	7.42	0.65	1.36
	11/01/91	---	---	---	---	---	---	---	7.14	0.50	1.49
	11/07/91	---	---	---	---	---	---	---	7.14	0.51	1.50
	11/15/91	---	---	---	---	---	---	---	7.19	0.53	1.47
	11/21/91	---	---	---	---	---	---	---	7.28	0.54	1.28
	12/12/91	---	---	---	---	---	---	---	7.33	0.49	1.29
	12/30/91	---	---	---	---	---	---	---	6.76	0.36	1.73
	01/13/92	---	---	---	---	---	---	---	6.29	0.37	2.21
	01/22/92	---	---	---	---	---	---	---	6.43	0.45	2.15
	02/12/92	---	---	---	---	---	---	---	6.30	0.38	2.21
	03/09/92	---	---	---	---	---	---	---	5.30	0.31	3.14
	04/10/92	---	---	---	---	---	---	---	5.37	0.07	2.83
	05/18/92	---	---	---	---	---	---	---	6.14	0.40	2.39
	11.56	01/06/93	---	---	---	---	---	---	---	---	---
02/03/93		---	---	---	---	---	---	---	---	---	---
04/23/93		---	---	---	---	---	---	---	5.85	0.60	6.19
07/19/93		---	---	---	---	---	---	---	6.23	0.26	5.54
	10/19/93	---	---	---	---	---	---	---	---	0.10	---

TABLE 3
HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL RESULTS
 Chevron Service Station No. 9-0290
 1802 Webster Street, Alameda, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	TOG	TPH-D	DTW (ft)	SPT (ft)	WTE (ft)
A-2 8.00	09/20/91	8,100	860	14	110	53	---	**5,100	7.73	0.00	0.27
	10/09/91	---	---	---	---	---	---	---	6.61	0.00	1.39
	10/17/91	---	---	---	---	---	---	---	6.66	0.00	1.34
	10/23/91	---	---	---	---	---	---	---	6.80	0.09	1.29
	11/01/91	---	---	---	---	---	---	---	6.63	0.15	1.45
	11/07/91	---	---	---	---	---	---	---	6.64	0.21	1.45
	11/15/91	---	---	---	---	---	---	---	6.81	0.19	1.38
	11/21/91	---	---	---	---	---	---	---	6.93	0.24	1.31
	12/12/91	---	---	---	---	---	---	---	6.97	0.15	1.24
	12/30/91	---	---	---	---	---	---	---	6.54	0.24	1.70
	01/13/92	---	---	---	---	---	---	---	5.92	0.08	2.16
	01/22/92	---	---	---	---	---	---	---	6.01	0.10	2.00
	02/12/92	---	---	---	---	---	---	---	6.06	0.26	2.20
	03/09/92	---	---	---	---	---	---	---	4.93	0.04	3.11
	04/10/92	---	---	---	---	---	---	---	5.20	<0.01	2.80
	05/18/92	---	---	---	---	---	---	---	5.66	0.02	2.36
	01/06/93	---	---	---	---	---	---	---	---	---	---
	02/03/93	---	---	---	---	---	---	---	4.98	0.22	3.20
11.46	04/23/93	---	---	---	---	---	---	---	5.36	0.18	6.24
	07/19/93	---	---	---	---	---	---	---	6.79	1.07	5.53
	10/19/93	---	---	---	---	---	---	---	6.36	1.41	6.23
B-1 12.12	04/23/93	13,000	4,900	22	250	47	---	8,300	5.93	0.00	6.19
	07/19/93	3,300	1,200	16	24	<30	---	1,600	6.66	0.00	5.46
	10/19/93	2,300	730	18	14	31	---	550	7.08	0.00	5.04

TABLE 3
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 Chevron Service Station No. 9-0290
 1802 Webster Street, Alameda, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	TOG	TPH-D	DTW (ft)	SPT (ft)	WTE (ft)
B-3 8.01	09/20/91	---	---	---	---	---	---	---	6.94	0.01	1.08
	10/09/91	---	---	---	---	---	---	---	6.35	0.00	1.66
	10/17/91	---	---	---	---	---	---	---	6.44	0.00	1.57
	10/23/91	---	---	---	---	---	---	---	6.84	0.00	1.53
	11/01/91	---	---	---	---	---	---	---	6.31	0.00	1.70
	11/07/91	---	---	---	---	---	---	---	6.32	0.00	1.69
	11/15/91	---	---	---	---	---	---	---	6.39	0.00	1.62
	11/21/91	---	---	---	---	---	---	---	6.44	0.00	1.57
	12/12/91	---	---	---	---	---	---	---	6.82	<0.01	1.19
	12/30/91	---	---	---	---	---	---	---	6.37	0.00	1.64
	01/13/92	---	---	---	---	---	---	---	5.94	0.00	2.07
	01/22/92	---	---	---	---	---	---	---	5.99	0.00	2.02
	02/12/92	---	---	---	---	---	---	---	5.82	<0.01	2.19
	03/09/92	---	---	---	---	---	---	---	5.10	0.00	2.91
	04/10/92	---	---	---	---	---	---	---	5.36	0.00	2.65
	05/18/92	6,200	550	58	13	51	<5,000	**250	5.72	0.00	2.29
	01/06/93	5,400	490	54	51	82	---	***10,000	5.50	SHEEN	2.51
02/03/93	---	---	---	---	---	---	---	---	---	---	
11.42	04/23/93	18,000	540	69	47	120	---	6,400	5.32	0.00	6.10
	07/29/93	40,000	780	69	49	150	---	4,000	5.94	0.00	5.48
	10/19/93	20,000	520	37	43	100	---	1,500	6.32	0.00	5.10



TABLE 3
HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL RESULTS
Chevron Service Station No. 9-0290
1802 Webster Street, Alameda, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	TOG	TPH-D	DTW (ft)	SPT (ft)	WTE (ft)
B-4 8.04	09/20/91	19,000	710	160	650	2,000	---	*1,400	6.82	0.00	1.22
	10/09/91	---	---	---	---	---	---	---	6.63	0.00	1.41
	10/17/91	---	---	---	---	---	---	---	6.84	0.00	1.20
	10/23/91	---	---	---	---	---	---	---	6.87	0.00	1.17
	11/01/91	---	---	---	---	---	---	---	6.70	0.00	1.34
	11/07/91	---	---	---	---	---	---	---	6.73	0.00	1.31
	11/15/91	---	---	---	---	---	---	---	6.83	0.00	1.21
	11/21/91	---	---	---	---	---	---	---	6.84	0.00	1.20
	12/12/91	---	---	---	---	---	---	---	6.87	0.00	1.17
	12/30/91	---	---	---	---	---	---	---	6.46	0.00	1.58
	01/13/92	---	---	---	---	---	---	---	5.91	0.00	2.13
	01/22/92	---	---	---	---	---	---	---	5.95	0.00	2.09
	02/12/92	15,000	920	75	520	940	---	*860	5.78	0.00	2.26
	03/09/92	---	---	---	---	---	---	---	5.09	0.00	2.95
	04/10/92	---	---	---	---	---	---	---	5.39	0.00	2.85
	05/18/92	19,000	2,000	97	560	1,200	<5,000	<50	5.59	0.00	2.45
	01/06/93	19,000	2,000	89	490	740	---	*2,700	5.50	SHEEN	2.54
02/03/93	---	---	---	---	---	---	---	---	---	---	
11.46	04/23/93	5,700	2,400	75	380	580	---	2,300	5.39	0.00	6.07
	07/19/93	19,000	2,400	140	440	620	---	2,400	6.13	0.00	5.33
	10/19/93	13,000	1,200	84	290	530	---	2,100	6.51	0.00	4.95

TABLE 3
HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL RESULTS
 Chevron Service Station No. 9-0290
 1802 Webster Street, Alameda, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	TOG	TPH-D	DTW (ft)	SPT (ft)	WTE (ft)
B-5 7.73	09/20/91	<50	<0.5	<0.5	<0.5	<0.5	---	<50	5.53	0.00	2.20
	10/09/91	---	---	---	---	---	---	---	5.31	0.00	2.42
	10/17/91	---	---	---	---	---	---	---	5.64	0.00	2.09
	10/23/91	---	---	---	---	---	---	---	5.68	0.00	2.05
	11/01/91	---	---	---	---	---	---	---	5.49	0.00	2.24
	11/07/91	---	---	---	---	---	---	---	5.54	0.00	2.19
	11/15/91	---	---	---	---	---	---	---	5.63	0.00	2.10
	11/21/91	---	---	---	---	---	---	---	---	---	---
	12/12/91	---	---	---	---	---	---	---	5.68	0.00	2.05
	12/30/91	---	---	---	---	---	---	---	5.19	0.00	2.54
	01/13/92	---	---	---	---	---	---	---	4.65	0.00	3.07
	01/22/92	---	---	---	---	---	---	---	4.70	0.00	3.03
	02/12/92	<50	<0.5	<0.5	<0.5	<0.5	---	<50	4.45	0.00	3.28
	03/09/92	---	---	---	---	---	---	---	4.05	0.00	3.68
	04/10/92	---	---	---	---	---	---	---	4.43	0.00	3.30
	05/18/92	390	39	1.9	11	24	<5,000	---	3.79	0.00	3.94
	01/06/93	<50	<0.5	<0.5	<0.5	<0.5	---	<50	4.44	SHEEN	3.29
02/03/93	---	---	---	---	---	---	---	---	---	---	
10.18	04/23/93	<50	<0.5	<0.5	<0.5	<1.5	---	<50	4.32	0.00	5.86
	07/19/93	54	<0.5	0.7	<0.5	<1.5	---	<50	5.03	0.00	5.15
	10/19/93	<50	2.0	4.1	0.8	3.5	---	<50	5.10	0.00	5.08

TABLE 3
HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL RESULTS
Chevron Service Station No. 9-0290
1802 Webster Street, Alameda, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	TOG	TPH-D	DTW (ft)	SPT (ft)	WTE (ft)
B-6 8.55	09/20/91	<50	<0.5	<0.5	<0.5	<0.5	---	<50	6.85	0.00	1.70
	10/09/91	---	---	---	---	---	---	---	6.83	0.00	1.72
	10/17/91	---	---	---	---	---	---	---	6.90	0.00	1.65
	10/23/91	---	---	---	---	---	---	---	6.93	0.00	1.62
	11/01/91	---	---	---	---	---	---	---	6.78	0.00	1.77
	11/07/91	---	---	---	---	---	---	---	6.81	0.00	1.74
	11/15/91	---	---	---	---	---	---	---	6.88	0.00	1.67
	11/21/91	---	---	---	---	---	---	---	6.95	0.00	1.60
	12/12/91	---	---	---	---	---	---	---	7.14	0.00	1.41
	12/30/91	---	---	---	---	---	---	---	6.50	0.00	2.05
	01/13/92	---	---	---	---	---	---	---	6.19	0.00	2.36
	01/22/92	---	---	---	---	---	---	---	6.27	0.00	2.28
	02/12/92	<50	<0.5	<0.5	<0.5	<0.5	---	<50	6.12	0.00	2.43
	03/09/92	---	---	---	---	---	---	---	5.28	0.00	3.27
	04/10/92	---	---	---	---	---	---	---	5.48	0.00	3.07
05/18/92	<50	<0.5	<0.5	<0.5	<0.5	<5,000	<50	5.90	0.00	2.65	
01/06/93	<50	<0.5	<0.5	<0.5	<0.5	---	<50	5.79	0.00	2.76	
02/03/93	---	---	---	---	---	---	---	---	---	---	
11.97	04/23/93	<50	<0.5	<0.5	<0.5	<1.5	---	<50	5.27	0.00	6.70
	07/19/93	74	<0.5	<0.5	<0.5	<1.5	---	<50	6.91	0.00	5.06
	10/19/93	<50	<0.5	0.5	<0.5	2.2	---	<50	6.48	0.00	5.49
B-7 10.54	04/23/93	<50	<0.5	<0.5	<0.5	<1.5	<50	---	4.52	0.00	6.02
	07/19/93	<50	<0.5	<0.5	<0.5	<1.5	<50	<50	5.04	0.00	5.50
	10/19/93	<50	3.1	<0.5	<0.5	0.8	---	<50	5.40	0.00	5.14
B-8 11.99	04/23/93	<50	<0.5	<0.5	<0.5	<1.5	<50	---	5.36	0.00	6.63
	07/19/93	<50	<0.5	<0.5	<0.5	<1.5	<50	<50	6.22	0.00	5.77
	10/19/93	---	---	---	---	---	---	---	Dry	---	---
B-9 10.70	04/23/93	<50	<0.5	<0.5	<0.5	<1.5	<50	---	4.56	0.00	6.14
	07/19/93	<50	<0.5	<0.5	<0.5	<1.5	<50	<50	5.45	0.00	5.25
	10/19/93	<50	<0.5	<0.5	<0.5	<0.5	---	<50	5.89	0.00	4.81

TABLE 3
HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL RESULTS
Chevron Service Station No. 9-0290
1802 Webster Street, Alameda, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	TOG	TPH-D	DTW (ft)	SPT (ft)	WTE (ft)
TRIP BLANK	01/06/93	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	04/23/93	---	---	---	---	---	---	---	---	---	---
	****07/19/93	---	---	---	---	---	---	---	---	---	---
	10/19/93	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---

- TPH-G = Total petroleum hydrocarbons-as-gasoline
 TPH-D = Total petroleum hydrocarbons-as-diesel fuel
 DTW = Depth to water
 SPT = Separate-phase hydrocarbon thickness
 WTE = Water table elevation in feet above mean sea level
 TOG = Total oil and grease
 --- = Not applicable/not sampled/not measured
 * = Diesel fuel range concentration reported. The pattern of peaks observed in the chromatogram is typical of gasoline.
 ** = Does not match typical diesel patterns
 *** = Diesel fuel range concentration reported. The pattern of peaks observed in the chromatogram is a mixture of gasoline and heavy hydrocarbons.
 **** = Trip blank contaminated in lab; no back-up trip blank was carried.
- Analytical results in micrograms/liter (μ /l), parts per billion

ATTACHMENT 3
Laboratory Report
and Chain-of-Custody Record



Superior Precision Analytical, Inc.

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

GROUNDWATER TECHNOLOGY, INC.
Attn: Nicole Merchant

Project 9-0290
Reported 10/27/93

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
30011- 1	B-1	10/19/93	10/26/93 Water
30011- 2	B-3	10/19/93	10/26/93 Water
30011- 3	B-4	10/19/93	10/26/93 Water
30011- 4	B-5	10/19/93	10/26/93 Water
30011- 5	B-6	10/19/93	10/26/93 Water
30011- 6	B-7	10/19/93	10/26/93 Water
30011- 7	B-9	10/19/93	10/26/93 Water
30011- 8	TB-LB	10/19/93	10/26/93 Water

RESULTS OF ANALYSIS

Laboratory Number: 30011- 1 30011- 2 30011- 3 30011- 4 30011- 5

Gasoline:	2300	20000	13000	ND<50	ND<50
Benzene:	730	520	1200	2.0	ND<0.5
Toluene:	18	37	84	4.1	0.5
Ethyl Benzene:	14	43	290	0.6	ND<0.5
Total Xylenes:	31	100	530	3.5	2.2
Diesel:	550	1500	2100	ND<50	ND<50
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

Laboratory Number: 30011- 6 30011- 7 30011- 8

Gasoline:	ND<50	ND<50	ND<50
Benzene:	3.1	ND<0.5	ND<0.5
Toluene:	ND<0.5	ND<0.5	ND<0.5
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5
Total Xylenes:	0.8	ND<0.5	ND<0.5
Diesel:	ND<50	ND<50	NA
Concentration:	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: 30011

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

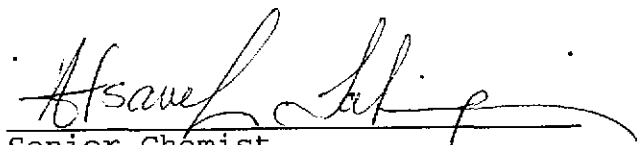
OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Water: 5000ug/L

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:	96/100	4%	70-130
Benzene:	98/98	0%	70-130
Toluene:	101/104	3%	70-130
Ethyl Benzene:	110/112	2%	70-130
Total Xylenes:	109/112	3%	70-130
Diesel:	103/111	7%	75-125


Senior Chemist

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

30011

Chain-of-Custody-Record

Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591	Chevron Facility Number <u>9-0290</u>	Chevron Contact (Name) <u>MARK MILLER</u>
	Facility Address <u>1802 WEBSTER ST ALAMEDA</u>	(Phone) <u>842-8134</u>
	Consultant Project Number <u>02024098</u>	Laboratory Name <u>SUPERIOR</u>
	Consultant Name <u>GROUNDWATER TECHNOLOGY</u>	Laboratory Release Number <u>604-8570</u>
	Address <u>4057 POET CHICAGO HWY, CONCORD, CA 94520</u>	Samples Collected by (Name) <u>RICK HOLTENSTEIN</u>
Project Contact (Name) <u>NICOLE MERCHANT</u>	Collection Date <u>10/19/93</u>	Signature
	(Phone) <u>(671)23871</u> (Fax Number) <u>685-9498</u>	

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type C = Grab C = Composites D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed										Remarks					
								BTX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (8520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)								
B-1	B-1																						
B-1	B-1	4	W	C	1505	HCL	YES	X	X														
B-3		4	W	C	1510	HCL	YES	X	X														
B-4		4	W	C	1415	HCL	YES	X	X														
B-5		4	W	C	1410	HCL	YES	X	X														
B-6		4	W	C	1300	HCL	YES	X	X														
B-7		4	W	C	1040	HCL	YES	X	X														
B-9		4	W	C	1625	HCL	YES	X	X														
TB-LB		2	W	C	1200	HCL	YES	X															

Samples stored in ice.
 Appropriate containers.
 Samples preserved.
 VOC's without headspace.
 Comments:

SS
 40C

NOTE:
Do NOT BILL
TB-LB SAMPLES

Relinquished By (Signature)	Organization <u>GTI</u>	Date/Time <u>10/19/93 1807</u>	Received By (Signature)	Organization <u>GTI</u>	Date/Time <u>10/19/93 1807</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days <u>10 Days</u> As Contracted
Relinquished By (Signature)	Organization <u>GTI</u>	Date/Time <u>10/20/93 1610</u>	Received By (Signature)	Organization <u>AERO</u>	Date/Time <u>10/20/93 4:10pm</u>	
Relinquished By (Signature)	Organization <u>AERO</u>	Date/Time <u>10/20/93 4:35pm</u>	Received For Laboratory By (Signature)		Date/Time <u>10/20/93 4:35</u>	